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ATHENA

A YEAR-BOOK OF THE LEARNED WORLD

THE ENGLISH SPEAKING RACES

EDITED BY

C. A. EALAND, M.A.



A. & C. BLACK, LTD

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1920

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PREFACE

It is noteworthy that, during a period of more than a quarter of a century, no guide to the Learned World which claims a common tongue has ever been printed in the language with which it is most familiar. Athena fills the apparent void—tardily perhaps, but, we venture to think, propitiously; whether there is elbow-room for such a guide, time will show, but sales alone will not make for complete success. The generous co-operation of all institutions which should appear in its pages is equally important.

From overseas we have obtained every assistance in our efforts to make our work accurate and complete; where we have sinned by omission it is rather from inadvertence on our part than from lack of information when it has been sought. To all, here and abroad, who have assisted in the making of Athena, we offer our sincere thanks.

In such a compilation errors are, unfortunately, unavoidable, especially in the initial volume, and we shall take it as a favour if these are pointed out to us. Again, some institutions which should rightly find a place in our pages are wanting. We cannot include every university and college, society and museum; but there are several which we may have omitted inadvertently, and to these we would ask that our attention be drawn—a remark which applies more especially to overseas institutions.

Should Athena meet with the approval which we hope—dare we say anticipate?—it is our intention to increase its scope by including the Learned Institutions of our Allies. Before another issue becomes due, we trust that they will have reverted to something approaching normal conditions; their inclusion will certainly add to the utility of Athena.

LIST OF ABBREVIATIONS

A.B. -	Bachelor of Arts.	B.P. -	Bachelor of Pharmacy.
A.C. -	Chartered Accountant.	B.Paed. -	Bachelor of Pedagogy.
A.C.G.I.	Associate of the City and Guilds Institute.	B.Pe. -	Bachelor of Pedagogy.
A.C.P. -	Associate of the College of Preceptors.	B.Phil. -	Bachelor of Philosophy.
A.E. -	Agricultural Engineer.	B.S. -	Bachelor of Science, or of Surgery.
A.L.S. -	Associate of the Linnean Society.	B.S.A. -	Bachelor of Agricultural Science.
A.M. -	Master of Arts.	B.Sc. -	Bachelor of Science.
A.M.I.N.A. -	Associate Member of the Institute of Naval Engi- neers.	B.Sc.Agr. -	Bachelor of Scientific Agri- culture.
A.M.Inst.C.E.	Associate Member of the Institute of Civil Engi- neers.	B.Sc.For. -	Bachelor of Scientific Forestry.
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A.R.C.Sc.I. -	Associate of the Royal Col- lege of Science of Ireland.	B.S.P. -	Bachelor of Science in Pharmacy.
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B.Acc. -	Bachelor of Accounting.	B.Th. -	Bachelor of Theology.
B.Ag. -	Bachelor of Agriculture.	B.V.Sc. -	Bachelor of Veterinary Science.
E.Ag.Sc. -	Bachelor of Agricultural Science.	C.A. -	Chartered Accountant.
B.A.O. -	Bachelor of Obstetrics.	C.B. -	Companion of the Bath.
B.Arch. -	Bachelor of Architecture.	C.B.E. -	Companion of the Order of the British Empire.
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B.D.S. -	Bachelor of Dental Surgery.	C.M.B.O.U. -	Corresponding Member of the British Ornithologists Union.
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B.O.L. -	Bachelor of Oriental Lan- guages.	D.I.C. -	Diploma of the Imperial College.

LIST OF ABBREVIATIONS

D.L.	Doctor of Law or Deputy Lieutenant.	F.R.Met.Soc.	Fellow of the Royal Meteorological Society.
D.Litt.	Doctor of Literature.	F.R.P.S.	Fellow of the Royal Photographic Society.
D.Litt.Celt.	Doctor of Celtic Literature.	F.R.S.	Fellow of the Royal Society.
D.M.	Doctor of Medicine or Music.	F.R.S.C.	Fellow of the Royal Society of Canada.
D.M.D.	Doctor of Dental Medicine.	F.R.S.E.	Fellow of the Royal Society of Edinburgh.
D.Met.	Doctor of Metallurgy.	F.R.S.L. & E.	Fellow of the Royal Society of London and Edinburgh.
D.Mus.	Doctor of Music. [guages.	F.R.S.S.E. & C.	Fellow of the Royal Society of Edinburgh and Canada.
D.O.L.	Doctor of Oriental Language.	F.S.A.	Fellow of the Society of Antiquaries.
D.Paed.	Doctor of Pedagogy.	F.S.S.	Fellow of the Statistical Society. [Society.
D.P.H.	Diploma of Public Health.	F.Z.S.	Fellow of the Zoological [Bath.
D.Phil.	Doctor of Philosophy.	G.C.B.	Knight Grand Cross of the
D.P.H.R.C.P. & S.I.	Diploma of Public Health of the Royal Colleges of Physicians and Surgeons, Ireland.	G.C.I.E.	Knight of the Grand Cross of the Indian Empire.
D.S.	Doctor of Science or Surgery.	G.C.M.G.	Knight of the Grand Cross of St. Michael and St. George.
D.Sc.	Doctor of Science. [gery.	G.C.S.I.	Grand Commander of the Star of India.
D.S.O.	Distinguished Service Order. [cine.	G.C.V.O.	Knight of the Grand Cross of the Victorian Order.
D.V.M.	Doctor of Veterinary Medicine.	Gr.Arch.	Graduate in Architecture.
D.V.S.	Doctor of Veterinary Science. [Science.	Gr.Ed.	Graduate in Education.
D.V.Sc.	Doctor of Veterinary Science.	Gr.P.H.	Graduate in Public Health.
E.D.	Doctor of Engineering.	I.C.S.	Indian Civil Service.
E.B.	Bachelor of Education.	I.E.S.	Indian Education Service.
E.E.	Electrical Engineer.	I.F.S.	Indian Forest Service.
E.M.	Mining Engineer.	I.M.S.	Indian Medical Service.
		I.S.O.	Imperial Service Order.
F.A.S.B.	Fellow of the Asiatic Society of Bengal. [eny.	J.C.B.	Bachelor of Civil Law.
F.B.A.	Fellow of the British Academy.	J.C.D.	Doctor of Civil Law.
F.C.P.	Fellow of the College of Preceptors. [Society.	J.D.	Doctor of Law.
F.C.S.	Fellow of the Chemical Society.	Jur.D.	Doctor of Law.
F.E.	Forest Engineer.	J.W.	Junior Warden.
F.E.I.S.	Fellow of the Educational Institute of Scotland.		
F.E.S.	Fellow of the Entomological Society.	K.C.B.	Knight Commander of the [Bath.
F.F.A.	Fellow of the Faculty of Actuaries.	K.C.I.E.	Knight Commander of the Indian Empire.
F.G.S.	Fellow of the Geological Society. [Actuaries.	K.C.M.G.	Knight Commander of St. Michael and St. George.
F.I.A.	Fellow of the Institute of Actuaries.	K.C.S.I.	Knight Commander of the Star of India.
F.I.C.	Fellow of the Institute of Chemistry. [Society.	K.C.V.O.	Knight Commander of the Victorian Order.
F.L.S.	Fellow of the Linnean Society.	K.G.	Knight of the Garter.
F.R.A.S.	Fellow of the Royal Asiatic Society.	K.P.	Knight of St. Patrick.
F.R.C.P.	Fellow of the Royal College of Physicians.	K.T.	Knight of the Thistle.
F.R.C.P.I.	Fellow of the Royal College of Physicians, Ireland.		
F.R.C.S.	Fellow of the Royal College of Surgeons.	L.C.L.	Licentiate of Civil Law.
F.R.S.E.	Fellow of the Royal College of Surgeons, Edinburgh.	L.C.P.	Licentiate of the College of Preceptors. [cine.
F.R.S.Eng.	Fellow of the Royal College of Surgeons, England.	L.D.M.	Licentiate of Dental Medicine.
F.R.C.Sc.	Fellow of the Royal College of Science.	L. ès Sc.	Licentiate of Science.
F.R.C.Sc.I.	Fellow of the Royal College of Science, Ireland.	L.H.D.	Doctor of Literature.
F.R.H.S.	Fellow of the Royal Horticultural Society.	Lit.D.	Doctor of Literature.
F.R.I.A.	Fellow of the Royal Irish Academy.	Litt.D.	Doctor of Literature.
F.R.I.B.A.	Fellow of the Royal Institute of British Architects.	LL.B.	Bachelor of Law.
		LL.D.	Doctor of Law.
		LL.M.	Master of Law.
		L.M.	Licentiate in Medicine.

LIST OF ABBREVIATIONS

L.P.	- Lord Provost.	M.R.C.S.	- Member of the Royal College of Surgeons.
L.R.C.P.	- Licentiate of the Royal College of Physicians.	M.R.C.V.S.	- Member of the Royal College of Veterinary Surgeons.
L.R.C.P.I.	- Licentiate of the Royal College of Physicians, Ireland.	M.R.I.A.	- Member of the Royal Irish Academy.
L.S.	- Licentiate in Surgery.	M.S.	- Master of Science or Surgery.
L.S.A.	- Licentiate of the Society of Apothecaries.	M.S.A.	- Member of the Society of Arts.
L.T.	- Licentiate in Theology.	M.S.Agr.	- Master of Scientific Agriculture.
L.Th.	- Licentiate in Theology.	M.Sc.	- Master of Science.
M.A.	- Master of Arts.	M.Sc.Tech.	- Master of Technical Science.
M.Agr.	- Master of Agriculture.	M.Th.	- Master of Theology.
M.Agr.Sc.	- Master of Agricultural Science.	Mus.B.	- Bachelor of Music.
M.Arch.	- Master of Architecture.	Mus.Bac.	- Bachelor of Music.
M.A.C.	- Master of Obstetrics.	Mus.D.	- Doctor of Music.
M.B.	- Bachelor of Medicine.	Mus.Doc.	- Doctor of Music.
M.B.A.	- Master of Business Administration.	Mus.Dr.	- Doctor of Music.
M.B.O.U.	- Member of the British Ornithologists Union.	Mus.M.	- Master of Music.
M.C.E.	- Master of Civil Engineering.	M.V.Sc.	- Master of Veterinary Science.
M.Ch.	- Master of Surgery.	N.Arch.	- Naval Architect.
M.C.L.	- Master of Civil Law.	N.D.A.	- National Diploma in Agriculture.
M.Com.	- Master of Commerce.	N.D.D.	- National Diploma in Dairy-ry.
M.Comun.	- Master of Commerce.	N.E.	- Naval Engineer.
M.C.S.	- Madras Civil Service.	O.B.E.	- Order of the British Empire.
M.D.	- Doctor of Medicine.	O.M.	- Order of Merit.
M.D.S.	- Master of Dental Surgery.	P.E.	- Bachelor of Pedagogy.
M.E.	- Mechanical or Mining Engineer.	Pd.D.	- Doctor of Pedagogy.
M.E.C.	- Member of Executive Council, or Master of Engineering Chemistry.	Pd.M.	- Master of Pedagogy.
M.Ed.	- Master of Education.	Ped.B.	- Bachelor of Pedagogy.
Mech.E.	- Mechanical Engineer.	Ped.D.	- Doctor of Pedagogy.
Met.E.	- Metallurgical Engineer.	Phar.B.	- Bachelor of Pharmacy.
M.Eng.	- Mechanical or Mining Engineer.	Phar.D.	- Doctor of Pharmacy.
M.F.	- Master of Forestry.	Ph.E.	- Bachelor of Philosophy or of Pharmacy.
M.H.	- Master of Hygiene.	Ph.C.	- Pharmaceutical Chemist.
M.I.E.E.	- Member of the Institute of Electrical Engineers.	Ph.D.	- Doctor of Philosophy or of Pharmacy.
M.I.Mech.E.	- Member of the Institute of Mechanical Engineers.	Ph.G.	- Graduate in Pharmacy.
Min.E.	- Mining Engineer.	Ph.L.	- Licentiate in Pharmacy.
M.Inst.C.E.	- Member of the Institute of Civil Engineers.	Ph.M.	- Master of Philosophy.
M.J.A.	- Member of the Institute of Journalists.	Phn.B.	- Bachelor of Pharmacy.
M.L.A.	- Member of Legislative Assembly.	Pres.R.S.	- President of the Royal Society.
M.L.C.	- Member of Legislative Council.	S.B.	- Bachelor of Science or of Surgery.
M.L.S.	- Master of Life and Science.	Sc.E.	- Bachelor of Science.
M.M.E.	- Master of Mining or Mechanical Engineering.	Sc.D.	- Doctor of Science.
M.Mech.E.	- Master of Mechanical Engineering.	Sc.M.	- Master of Science.
M.Met.	- Master of Metallurgy.	S.D.	- Doctor of Science or of Surgery.
M.Mus.	- Master of Music.	Sec.R.S.	- Secretary of the Royal Society.
M.O.	- Master of Obstetrics.	S.F.	- Senior Fellow.
M.O.L.	- Master of Oriental Languages.	S.J.	- Society of Jesus.
M.R.A.S.	- Member of the Royal Academy of Science.	S.M.	- Master of Science or of Surgery.
M.R.I.	- Member of the Royal Institute of Physicians.	S.S.C.	- Solicitor before the Supreme Court.
M.R.C.P.	- Member of the Royal College of Physicians.	S.T.S.	- Bachelor of Divinity.
M.R.C.P.I.	- Member of the Royal College of Physicians, Ireland.	S.T.D.	- Doctor of Divinity.
		S.T.L.	- Licentiate of Divinity.
		S.T.M.	- Master of Divinity.
		T.C.D.	- Trinity College, Dublin.
		Th.E.	- Bachelor of Theology.
		Th.D.	- Doctor of Theology.
		Th.G.	- Graduate in Theology.
		Th.M.	- Master of Theology.
		V.M.D.	- Doctor of Veterinary Medicine.

ATHENA

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Principal.—John Humphreys Davis, M.A.

Registrar.—(Vacant.)

PROFESSORS.**ARTS.****Professors :**

J. W. Marshall, *Greek*.

H. J. Rose, *Latin*.

(Vacant), *Hebrew and Arabic*.

(Vacant) *German*.

J. L. A. Barbier, *French Language and Literature and Romance Philology*.

J. W. H. Atkins, *English Language and Literature*.

E. Edwards, *History*.

T. S. Roberts, *Colonial History*.

E. A. Lewis, *Economics and Political Science*.

A. E. Zimmern, *International Politics*.

T. Gywnn Jones, *Welsh Literature*.

W. J. Jones, *Logic and Philosophy*.

T. A. Levi, *English Law*.

H. Walford Davies, *Music*.

C. R. Chapple, *Education*.

F. Watson

„

Lecturers :

E. D. T. Jenkins, *Greek and Latin*.

M. Brebner (Miss), *German*.

L. Winstanley (Miss), *English Language and Literature*.

E. A. Lewis, *Paleography and Diplo-*

F. Smith, Education. [matics.]

Library.—General College Library.

SCIENCE.**Professors :**

W. H. Young, *Pure Mathematics*.

G. A. Schott, *Applied Mathematics*.

B. Moriat Jones, *Chemistry*.

G. Owen, *Physics*.

W. J. Pugh, *Geology*.

J. L. Williams, *Botany*.

H. J. Fleure, *Geography and Anthropology*.

A. E. Jones, *Agriculture*.

R. G. Stapledon, *Agricultural Botany*.

Lecturers :

W. J. Johnston, *Pure Mathematics*.

T. Campbell James, *Chemistry*.

H. H. Paine, *Physics*.

R. D. Laurie, *Zoology*.

J. J. Griffith, *Agricultural Chemistry*.

R. Phillips

K. Sampson (Miss) *„ Agricultural Botany*.

County Organizers of Agricultural Education :

D. Thomas, Breconshire and Radnorshire.

D. J. Morgan, Cardiganshire.

J. Ll. Evans, Carmarthenshire.

J. L. John, Montgomeryshire.

Library.—General College Library. *Librarian* : J. D. Williams, B.A.

ADELAIDE (S. Australia).

UNIVERSITY OF ADELAIDE, Adelaide, South Australia. (1874.)

Terms : Three per year.

OFFICIALS.

Director.—His Excellency the Governor.

Chancellor.—The Hon. Sir George John Robert Murray, K.C.M.G., B.A., LL.M.

Vice-Chancellor.—Professor William Mitchell, M.A., D.Sc.

Registrar.—Charles Reynolds Hodge.

Assistant Registrar.—Frederick William Eardley, B.A.

Librarian.—Robert John Miller Lucas, B.A.

Degrees conferred :

<i>Degrees.</i>	<i>Hoods.</i>
B.A. - -	Black silk lined with grey silk.
M.A. - -	Black silk lined with dark grey silk.
LL.B. - -	Black silk lined with blue silk.
LL.D. - -	Dark blue lined with light blue silk.
M.B. - -	Black silk lined with rose silk.
M.D. - -	Rose silk lined with pale rose silk.
B.S. - -	Black silk lined with rose silk.
D.S. - -	Rose silk lined with pale rose silk.
B.Sc. - -	Black silk lined with yellow silk.
D.Sc. - -	Yellow silk lined with pale yellow silk.
B.E. - -	Black silk lined with light brown silk.
M.E. - -	Black silk lined with dark brown silk.
Mus.Bac. -	Black silk lined with green silk.
Mus.Doc. -	Green silk lined with dark green silk.

PROFESSORS.

Professors :

- H. D. Naylor, *Classics and Comparative Philology and Literature.*
 W. Mitchell, *Philosophy.*
 G. C. Henderson, *Modern History and English Language and Literature.*
 R. W. Chapman, *Mathematics and Mechanics.*
 K. Grant, *Physics.*
 A. Watson, *Anatomy.*
 Sir E. C. Stirling, *Physiology.*
 E. H. Rennie, *Chemistry.*
 T. G. B. Osborn, *Botany.*

Lecturers :

- J. Crampton, *French Language.*
 A. J. Schulz, *Education.*
 H. Heaton, *Economics.*
 H. W. Gartrell, *Mining Engineering.*
 E. V. Clark, *Electric Engineering.*
 W. Howchin, *Geology and Mineralogy.*
 Sir D. Mawson, *Mineralogy and Petrology.*
 W. T. Cooke, *Chemistry.*
 H. H. Corbin, *Forestry.*
 A. Mills Lea, *Forest Entomology.*
 F. A. d'Arenberg, *Law of Evidence and Procedure.*
 P. E. Johnstone, *Law of Contracts.*
 E. W. Benham, *Law of Property.*
 T. J. Brown, *Law of Wrongs.*
 H. Heaton, *Economics and Commercial History.*
 R. J. Miller Clucas, *Economic Geography.*

Lecturers—Continued :

- R. N. Finlayson, *Industrial and Commercial Law.*
 S. R. Booth, *Accountancy.*
 H. Heaton, *Industrial Practice.*
 R. M. Steele, *Commercial Practice.*
 W. Ham, *Australian Industries.*
 W. R. Cavenagh-Mainwaring, *Pathology.*
 T. Borthwick, *Bacteriology.*
 H. Swift, *Principles and Practice of Medicine and Therapeutics.*
 J. C. Verco, *Principles and Practice of Medicine and Therapeutics.*
 W. T. Hayward, *Materia Medica and Therapeutics.*
 B. Poulton, *Principles and Practice of Surgery.*
 F. S. Hone, *Clinical Medicine.*
 A. M. Cudmore, *Clinical Surgery.*
 J. A. G. Hamilton, *Gynecology.*
 A. A. Lendon, *Obstetrics and Diseases of Children.*
 A. M. Morgan, *Ophthalmic Surgery.*
 G. A. Fischer, *Aural Surgery.*
 R. S. Rogers, *Forensic Medicine.*
 M. H. Downey, *Psychological Medicine.*
 C. T. C. de Grespigny, *Practical Pathology and Histology.*
 J. B. Gunson, *Medical Diseases of Children.*
 H. S. Newland, *Surgical Diseases of Children.*
 2 Assistant Lecturers, 3 Tutors, 3 Demonstrators.

AFFILIATED INSTITUTION.

Perth Technical School, Western Australia.

ROYAL SOCIETY OF SOUTH AUSTRALIA.

OFFICERS.

Patron.—His Excellency Sir Henry L. Galway, K.C.M.G., D.S.O.

President.—Sir Joseph C. Verco, M.D., F.R.C.S.

Vice-Presidents.—

Major R. H. Pulleine, M.B.

Edwin Ashby, F.L.S., M.B.O.U.

Hon. Treasurer.—W. B. Poole.

Hon. Secretary.—W. Rutt, C.E.

Members of Council.

Prof. E. H. Rennie, M.A., D.Sc., F.C.S.

Prof. T. G. B. Osborn, M.Sc.

Capt. S. A. White, C.M.B.O.U.

Lieut.-Col. R. S. Rogers, M.A., M.D.

Prof. R. W. Chapman, M.A.,

B.C.E.

Prof. W. Howchin, F.G.S. (Editor
and Representative)

Governor on Board of S.A. Library, Museum, etc.

In 1853 the Society (then and until 1880 known as the Adelaide Philosophica Society) was founded, and commenced to hold monthly meetings for the reading and discussion of papers on scientific subjects, which were published in a somewhat irregular form until 1878, when the first annual volume of its *Transactions and Proceedings* was issued in octavo in a form suitable for distribution to other learned Societies and Institutions in exchange for their publications. In 1880 permission was granted by H.M. Queen Victoria to assume the name "Royal Society of South Australia." Forty-two annual volumes of the *Transactions and Proceedings* and two volumes of *Memoirs* in quarto have been issued to date.

The membership of the Society comprises 10 Honorary Fellows, 5 Corresponding Members, 76 Fellows, and 1 Associate. The number of societies and institutions on the list for exchange of publications is at present 194. The library now contains 3,400 volumes and 1,600 pamphlets.

AGRICULTURE, U.S. DEPARTMENT OF. See WASHINGTON.

AJMER (India).

THE GOVERNMENT COLLEGE, Ajmer, India. (1868.)

Affiliated to the University of Allahabad.

Terms : July to April.

Students : 110.

OFFICIALS.

Principal.—E. F. Harris, B.A.

Officiating Principal.—A. Miller, M.A.

8 Professors, 2 Demonstrators.

Library.—The College Library contains about 4,000 volumes. *Librarian* : Babu Manmohan Rai, B.A.

ALBANY (New York).

UNIVERSITY OF THE STATE OF NEW YORK, Albany, N.Y.

The University is the State Education Department, it exercises the general management and supervision of all public schools, and all the educational work of the State it is governed and all its corporate powers are exercised by a Board of Regents serving without salary. The Regents confer certificates, diplomas, and degrees; they register both domestic and foreign institutions in terms of New York Standards, fix the values of degrees, etc., issued by institutions of other States and countries, and forwarded for entrance to schools, colleges, and professions in New York State.

REGENTS OF THE UNIVERSITY (with years when Terms expire).

1920. J. Byrne, B.A., LL.D., LL.B., New York.
 1921. (Vacant.)
 1922. C. S. Lord, M.A., LL.D., Brooklyn.
 1923. (Vacant.)
 1924. A. Moot, LL.D., Buffalo.
 1925. C. B. Alexander, M.A., LL.B., LL.D., Litt.D., Tuxedo.
 1926. P. T. Sexton, LL.B., LL.D. (Chancellor), Palmyra.
 1927. A. Vander Veer, M.D., M.A., Ph.D., LL.D. (Vice-Chancellor), Albany.
 1928. W. G. Kellogg, B.A., LL.D., Ogdensburg.
 1929. H. L. Bridgman, M.A., Brooklyn.
 1930. W. Nottingham, M.A., Ph.D., LL.D., Syracuse.
 1931. T. J. Mangan, M.A., Binghamton.

OFFICIALS.

President of the University and Commissioner of Education.—J. H. Finley, M.A., LL.D., L.H.D.

Deputy Commissioner.—Frank B. Gilbert.

Assistant Commissioner for Elementary Education.—G. M. Wiley, M.A.

Assistant Commissioner and Director of Professional Education.—A. S. Downing, M.A., L.H.D., LL.D.

Assistant Commissioner for Secondary Education.—C. F. Weelock, B.S., LL.D.

Director of State Library.—J. I. Wyer, jr., M.L.S., Ph.D.

Director of Science and State Museum.—J. M. Clarke, D.Sc., LL.D.

CHIEFS AND DIRECTORS OF DIVISIONS.

Administration.—H. C. Case.

Agricultural and Industrial Education.—L. A. Wilson.

Archives and History.—J. Sullivan, M.A., Ph.D.

Attendance.—J. D. Sullivan.

Educational Extension.—W. R. Watson, B.S.

Examinations and Inspections.—G. M. Wiley, M.A.

Law.—F. B. Gilbert, B.A., Counsel.

Library School.—J. I. Wyer, jr., M.L.S., Pd.D.

School Buildings and Grounds.—F. H. Wood, M.A.

School Libraries.—S. Willians, Pd.D.

Visual Instruction.—A. W. Abrams, Ph.B.

THE CARNEGIE INSTITUTION DEPARTMENT OF MERIDIAN ASTROMETRY,
DUDLEY OBSERVATORY, Albany, New York. (1907.)

Director.—Benjamin Boss.

Investigatory staff of 16 members.

Objects are to secure accurate measures of the position of the stars visible in the southern hemisphere for use in connection with corresponding measures made at observatories in the northern hemisphere, in order to produce a complete catalogue of precision of all stars from the brightest down to those of the seventh magnitude, inclusive, for the entire celestial sphere.

ALBERTA, UNIVERSITY OF. See EDMONTON.

ALIGARH (U.P. India).

MOHAMMEDAN ANGLO-ORIENTAL COLLEGE, Aligarh, U.P. India. (1875.)

Affiliated to the University of Allahabad.

Terms: April to August.

Students: 170.

Budget: The Budget exceeds 280,000 Rupees.

OFFICIALS.

Principal.—Eia Uddin Ahmad, C.I.E., M.A., Ph.D., D.Sc.

Librarian.—Firoz Uddin Murad.

Secretary.—Syed Mohammed Ali.

Post-Graduate Courses in Arts, Science, and Oriental Languages.

ALLAHABAD (India).

THE UNIVERSITY OF ALLAHABAD, Allahabad, United Provinces of India. (1887.)

Terms : July to March.

OFFICIALS.

Chancellor.—The Hon. Sir Spencer Harcourt Butler, K.C.S.I., C.I.E.

Vice-Chancellor.—The Hon. Justice Theodore Caro Piggot, I.C.S.

Registrar.—M. G. V. Cole, M.A.

Assistant Registrar.—S. M. David, B.A.

Degrees conferred :

<i>Degrees.</i>	<i>Hoods.</i>
B.A. - - -	Hood of black silk, edged with a band of amber yellow silk on both sides.
M.A. - - -	Hood of black silk, lined with a band of amber yellow silk.
Litt.D. - - -	Hood of white cloth, with scarlet silk lining.
LL.B. - - -	Hood of black silk, lined with pale blue silk.
LL.M. - - -	Hood of black silk, lined with deep blue silk.
LL.D. - - -	Hood of pale blue silk.
B.Sc. - - -	Hood of black silk, edged with a 3-inch band of crimson silk on both sides.
M.Sc. - - -	Hood of black silk, edged with a 6-inch band of crimson silk on both sides.
D.Sc. - - -	Hood of white silk.
Licentiate of Teaching -	Hood of black silk, lined with pearl-grey silk.
M.B. and B.S. -	Hood of black silk, lined with emerald-green silk.
M.D. - - -	Hood of black velvet, lined with emerald green silk.

UNIVERSITY SCHOOL OF LAW.

PROFESSORS.

J. C. Weir. R. K. Serabji.
2 Lecturers.

OTHER UNIVERSITY DEPARTMENTS.

Professors :

L. F. Rushbrook-Williams, *Modern History*.

1 Reader, 2 Assistant Professors, 1 Research Assistant, 2 Research Scholars.

H. S. Jevons, *Economics*.

1 Reader, 1 Research Assistant, 1 Scholar.

Post-Graduate Courses leading to M.A. degree.

Libraries.—University Library. Librarian : S. Parshad.

AFFILIATED INSTITUTIONS.

Hislop College, Nagpur.	Meerut College, Meerut.
Ewing Christian College, Allahabad.	Isabella Thorburn College, Lucknow.
Indore Christian College, Indore.	Jaswant College, Jodhpur.
Government College, Ajmer.	Holkar College, Indore.
Bareilly College, Bareilly.	Woodstock College, Mussoorie.
Lucknow Christian College, Lucknow.	Kayastha Pathshala, Allahabad.
Robertson College, Jubbulpore.	St. Andrew's College, Gorakhpur.
Muir Central College, Allahabad.	Government Training College, Allahabad.
Queen's College, Benares.	Training College, Jubbulpore.
Canning College, Lucknow.	Victoria College, of Science, Nagpur.
Mohammedan Anglo-Oriental College, Aligarh.	St. John's College, Agra.
Agra College, Agra.	University School of Law, Allahabad.
Christ Church College, Cawnpore.	King George's Medical College, Lucknow.
Maharaja's College, Jaipur.	Daynand Anglo-Vedic College, Cawnpore.
Morris Memorial College, Nagpur.	European Girls' High School, Allahabad.
Victoria College, Gwalior.	All Saints Diocesan College, Naini Tal.

EWING CHRISTIAN COLLEGE, Allahabad, United Provinces, India.

Terms : Two a year.

Students : 500.

Budget : Annual Recurring Expenditure, Rs. 125,000.

OFFICIALS.

President of the Board of Directors.—Rev. J. J. Lucas, D.D., Katra Mission, Allahabad.

Principal of College.—Rev. C. A. R. Janvier, M.A., D.D.

Vice-Principal.—P. H. Edwards, M.A., Ph.D.

Principal of Allahabad Agricultural Institute.—S. Higginbottom, M.A., B.Sc. (Ag.).

Vice-Principal of Allahabad Agricultural Institute.—L. A. Kenoyer, M.A., Ph.D.

PROFESSORS.

ARTS.

Professors :

Rev. C. A. R. Janvier, *English Literature.*

C. D. Thompson, *Economics.*

N. B. Mitra, *Mathematics.*

N. C. Mukerji, *English and Ethics.*

K. M. Sircar, *English and History.*

H. T. Bose, *Logic and English.*

Rev. J. C. Manry, *Psychology.*

Rev. W. E. Weld, *Economics.*

T. C. Blaisdell, jr., *History.*

G. S. Acharya, *Sanskrit.*

(Vacant), *Persian.*

Assistant Professors :

R. K. Kumar, *Economics.*

S. P. Andrews, *History.*

SCIENCE.

Professors :

P. H. Edwards, *Physics.*

N. B. Mitra, *Mathematics.*

Post-Graduate Courses.—

Economics (including Economic Theory and Indian Economics) to the M.A. standard.

Philosophy: Logic, Metaphysics, Ethics, Psychology (including Physiological and Experimental Psychology), Indian Philosophy, the History of Philosophy.

Libraries.—

General Library of Ewing Christian College, 6,500 volumes, and libraries in connection with the various laboratories. *Librarian* : Vacant.

Library of Allahabad Agricultural Institute. *Librarian* : Rev. A. E. Parker.

Museum.—Economic Museum. *Curator* : C. D. Thompson.

Professors—Continued :

H. T. Avey, *Physics.*

W. Dudgeon (Miss), *Botany.*

C. C. Palit, *Chemistry.*

A. T. MacPherson, *Chemistry.*

(Vacant), *Zoology.*

AGRICULTURE.

Professors :

L. A. Kenoyer, *Economic Botany.*

W. Bembower, *Horticulture.*

G. S. Birch, *Animal Husbandry and Dairying.*

A. E. Parker, *Agronomy.*

R. L. Penderleton, *Extension in Gwalior State.*

C. C. Wisner, *Extension in Gwalior State.*

R. N. Chowdhury, *Chemistry and Physics.*

3 Readers, 5 Lecturers, 3 Demonstrators, and 4 other Assistants.

AFFILIATED INSTITUTIONS.

Affiliated to the University of Allahabad to the B.A. and B.Sc. Standards in all subjects. M.A. in Philosophy and in Economics.

The Allahabad Agricultural Institute grants its own certificate in agriculture.

AMERICAN ANTIQUARIAN SOCIETY. See WORCESTER.

AMERICAN CHEMICAL SOCIETY. See NEW YORK.

AMERICAN COLLEGE. See MADURA.

AMERICAN FORESTERS SOCIETY. See WASHINGTON.

AMERICAN GEOGRAPHICAL SOCIETY. See NEW YORK.

AMERICAN HISTORICAL ASSOCIATION. *See* WASHINGTON.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.
See WASHINGTON.

AMERICAN MATHEMATICAL SOCIETY. *See* NEW YORK.

AMERICAN MICROSCOPICAL SOCIETY. *See* BELOIT.

AMERICAN MUSEUM OF NATURAL HISTORY. *See* NEW YORK.

AMERICAN ORIENTAL SOCIETY. *See* NEW YORK.

AMERICAN PHILOSOPHICAL SOCIETY. *See* PHILADELPHIA.

AMERICAN RESEARCH, SCHOOL OF. *See* SANTA FE.

AMES (Iowa).

IOWA STATE COLLEGE. No particulars received.

EXPERIMENT STATION, U.S. Department of Agriculture.
Director.—C. F. Curtiss.

AMHERST (Massachusetts).

AMHERST COLLEGE. Amherst, Mass. (1821.)

Terms: First semester—September to February.
Second semester—February to June.

Students: 503. *Budget:* \$300,000.

OFFICIALS.

President.—Alexander Meiklejohn.

Dean.—George D. Olds.

Secretary of the Faculty.—Thomas C. Esty.

Recorder.—Gladys A. Kimball.

Treasurer.—Harry W. Kidder.

Degrees conferred.—B.A., M.A.

PROFESSORS.

FACULTY OF ARTS.

Professors :

- W. Cowles, *Latin Language and Literature.*
- W. A. Stowell, *Romance Languages.*
- H. de Forest Smith, *Greek.*
- G. Churchill, *English Literature.*
- W. Bigelow, *Music.*
- J. Crook, *Economics.*
- P. Phillips, *Hygiene and Physical Education.*
- A. A. Mackimmie, *Spanish.*
- C. Eastman, *German Language and Literature.*

Professors—Continued :

- W. J. Newlin, *Philosophy.*
- F. L. Thompson, *History.*
- H. E. Smith, *Romance Languages.*
- W. H. Hamilton, *Economics.*
- S. Young, *English Literature.*
- W. W. Stewart, *Economics.*
- R. Frost, *English Literature.*
- R. G. Gettell, *Political Science.*
- A. P. Fitch, *History of Religion and Biblical Literature.*
- H. P. Gallinger, *History.*
- O. Manthey-Zorn, *German.* [ture.
- A. Schinz, *French Language and Literature.*

Associate Professors :

- A. H. Baxter, *Romance Languages.*
- R. F. Nelligan, *Hygiene and Physical Education.*
- C. H. Toll, *Philosophy.*
- C. E. Bennett, *Latin.*
- G. F. Whicher, *English.*
- H. W. Litchfield, *Latin.*
- C. E. Ayres, *Philosophy.*

FACULTY OF SCIENCE.

Professors :

- A. Meiklejohn, *Logic and Metaphysics.*
- A. L. Kimball, *Physics.*
- G. D. Olds, *Mathematics.*
- D. Todd, *Astronomy and Navigation.*

Post-Graduate Courses.—Courses leading to the M.A. degree.

Libraries and Museums :

The Converse Memorial Library, 300,000 volumes. *Librarian:* R. Stillman Fletcher.

The Mather Art Museum contains valuable examples of Ancient Art.

In the biology museum are the Adams collection of shells, a part of Audubon's celebrated collection of birds, a synoptic collection of the animal kingdom, and a collection of fossil vertebrates.

The geology museum has the Woods Cabinet, which contains about twenty-five thousand specimens of minerals, including the general American and European collections, the State Survey collections of New Hampshire, Vermont, Massachusetts, and Connecticut, and the Shepard meteorite collection.

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Acting Director.—F. W. Morse.

AMRITSAR (India).

KHALSA COLLEGE, Amritsar, Punjab. (1893.)

Affiliated to the University of the Punjab, Lahore.

OFFICIAL.

Principal.—G. A. Wathen.

PROFESSORS.

- G. A. Wathen, *English.*
- W. H. F. Armstrong, *Chemistry.*
- N. Singh, *Chemistry.*
- A. C. C. Hervey, *English and History.*
- A. Natha, *English and History.*
- H. Singh, *English and Sanskrit.*
- K. Singh, *English and Divinity.*
- M. Hussain, *Persian and Arabic.*
- H. Chand, *Mathematics.*

- D. Singh, *Mathematics.*
- K. L. Bhakia, *Biology.*
- C. Singh,
- B. R. Clatterji, *History and Economics.*
- T. Singh, *Philosophy.*
- H. Singh, *Mathematics and Divinity.*
- S. C. Singh, *Physics.*
- Teja Singh, *English and Divinity.*
- R. Sing, *Botany.*

ANDOVER THEOLOGICAL SEMINARY. See CAMBRIDGE (Mass.).

ANNAPOLIS (Maryland).

SAINT JOHN'S COLLEGE, Annapolis, Maryland, America. (1696.)

Terms: Two a year.

Students: 234.

OFFICIALS.

Chancellor.—E. C. Harrington, Governor of Maryland.

Provost and President of Academic Department.—T. Fell, Ph.D., LL.D., D.C.L.

Registrar and Secretary.—Miss S. Berry.

Degrees conferred.—B.A., B.Sc., M.A., M.Sc., Ph.D., L.H.D., LL.D., D.D.

PROFESSORS.

Professors :

T. Fell, *Moral Science*.
 J. B. Rippere, *Latin*.
 J. B. White, *Greek and Latin*.
 B. H. Waddell, *Mathematics*.
 R. H. Ridgely, *Biology*.
 S. S. Handy, *English*.
 H. B. Scarborough, *Drawing and
 Physics*.
 C. W. Stryker, *History and Political
 Economy*.

Professors—Continued :

D. Elliot, *Military Science and Tactics*.
 L. F. Hildebrandt, *Modern Languages*.
 W. F. Clayton, *Chemistry*.
 W. L. Marcy, *Sanitation and Hygiene*.

Assistant Professors :

T. L. Gladden, *Latin and Mathematics*.
 R. E. Grove, *Physics and English*.
 E. T. Fell, *English and History*.
 V. Lentz, *Mathematics*.

Library.—Library Academy Department, 10,000 volumes. *Librarian* : R. E. Grove.

AFFILIATED INSTITUTE.

The Arts and Sciences Department of the University of Maryland. (See Baltimore.)

ANN ARBOR.

UNIVERSITY OF MICHIGAN. No particulars received.

ANTIGONISH (Nova Scotia).

UNIVERSITY OF ST. FRANCIS XAVIER'S COLLEGE.

No particulars received.

ARCHEOLOGICAL INSTITUTE OF AMERICA. See WASHINGTON.

ARMAGH (Ireland).

ARMAGH OBSERVATORY, Armagh. (1790.)

Director.—Rev. William Frederick Archdall Ellison, M.A., B.D., F.R.A.S.,
 F.R. Met. Soc.

ARMSTRONG COLLEGE. See DURHAM.

ASIATIC SOCIETY OF BENGAL. See CALCUTTA.

ASTROPHYSICAL OBSERVATORY. See WASHINGTON.

ATHENS (Georgia).

UNIVERSITY OF GEORGIA. No particulars received.

ATHENS (Ohio).

OHIO UNIVERSITY, Athens, Ohio. (1804.)

Terms : Two semesters, three special terms, six weeks each.
Students : 3,957. *Budget* : \$355,224.97.

OFFICIALS.

President.—Alston Ellis, A.M., Ph.D., LL.D.
Dean of College of Liberal Arts.—E. W. Chubb.
Dean of College of Normal College.—J. J. Richeson.
Director of School of Commerce.—C. M. Copeland.
Dean of Women.—Irma E. Voigt.
Director of School of Music.—A. S. Thompson.

Degrees conferred.—A.B. and B.S. in Education.

PROFESSORS.

FACULTY OF ARTS.

Professors :

- E. W. Chubb, *English Literature*.
 J. J. Richeson, *School Administration*.
 D. J. Evans, *Latin*.
 J. W. Taylor, *Greek*.
 F. Treudley, *Philosophy and Psychology*.
 H. R. Wilson, *English*. [logy.
 F. S. Coultrap, *Art of Teaching*.
 T. N. Hoover, *History*.
 C. L. Martzolf, *History*.
 W. L. Gard, *History and Principles of Education*.
 M. T. Noss (Miss), *French*.
 B. McC. Thompson, *Physiography*.
 W. H. Cooper, *Public Speaking*.
 H. D. Simpson, *Economics*.
 G. R. McLaughlin, *Manual Training*.
 F. V. Whitehouse, *Spanish*.
 I. E. Ash, *Secondary Education*.
 M. L. Stahl (Miss), *Drawing and Painting*.
 M. J. Brison (Miss), *Public School Drawing*.
 C. T. McLeod (Miss), *Kindergarten*.
 M. Tough (Miss), *Home Economics*.

Associate Professors :

- S. K. Mardis, *History of Education*.
 E. J. Jones, *History and Civics*.

Assistant Professors :

- M. E. Moore (Miss), *Latin*.
 C. N. Mackinnon, *English*.

Library.—Carnegie Library. *Head Librarian* : C. G. Matthews. Six Assistants.
 No Post-Graduate Courses.

Assistant Professors—Continued :

- C. E. Skinner, *Psychology and Paidology*.
 B. L. Jefferson, *English*. [logy.
 C. W. Gill, *English*.
 M. J. Kimball, *Advertising and Salesmanship*.
 C. H. Growden, *Psychology and Paidology*.
 W. H. Fenzel, *Accounting and Business Administration*.
 C. R. Stearns, *French and Spanish*.

FACULTY OF SCIENCE.

Professors :

- A. A. Atkinson, *Physics and Electrical Engineering*.
 W. F. Mercer, *Biology and Geology*.
 W. B. Bentley, *Chemistry*.
 O. Chrisman, *Paidology and Psychology*.
 L. J. Addicot, *Civil Engineering*.
 W. F. Copeland, *Agriculture*.
 W. A. Matheny, *Civic Biology and Botany*.
 J. R. Morton, *Analytical Chemistry*.
 R. L. Berger, *Mathematics*.
 I. F. Stewart, *Mathematics*.

Associate Professor :

- O. E. Dunlap, *Agriculture*.

Assistant Professors :

- R. G. Webber, *Physics*.
 F. B. Gullum, *Chemistry*.
 O. E. McClure, *Physics*.
 32 Instructors and 1 Assistant.

AFFILIATED INSTITUTIONS.

State Normal College.

AUBURN (Alabama).

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—J. F. Duggar.

AUCKLAND (New Zealand).

AUCKLAND UNIVERSITY COLLEGE, Auckland, New Zealand. (1882.)

Terms : Three per year.

OFFICIALS.

See NEW ZEALAND UNIVERSITY.

Degrees and Hoods.—See NEW ZEALAND UNIVERSITY.

PROFESSORS.

Professors :

- H. S. Dettman, *Classics*.
 C. W. Egerton, *English*.
 H. W. Segar, *Mathematics*.
 F. P. Worley, *Chemistry*.
 G. Owen, *Physics*.
 J. C. Johnson, *Biology*.

Professors—Continued :

- W. E. Thomas, *Music*.
 M. Walker, *Modern Languages*.
 J. P. Grossman, *Economics and History*.
 3 Assistants, 2 Demonstrators, 10 Lecturers.

AUSTIN (Texas).

UNIVERSITY OF TEXAS. No particulars received.

AUSTRALIAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

See SYDNEY.

BAHAWALPUR (India).**SADIQ-EGERTON COLLEGE**, Bahawalpur, Punjab. (1882.)

Affiliated to the University of the Punjab, Lahore.

OFFICIALS.

Principal.—A. Hamid, B.A.*Librarian.*—Bashir Ahmad.

PROFESSORS.

A. Hamid, *English and Philosophy.*A. Lahidie, *English and History.*M. A. Khan, *English and Mathematics.*H. Ahmad, *Arabic and Persian.*Pt. R. Claran, *Sanskrit.***BALA (North Wales).****THE CALVINISTIC METHODIST OR WELSH PRESBYTERIAN THEOLOGICAL COLLEGE**, Bala, North Wales. (1837.)*Terms*: Three each year: September to Christmas; Christmas to Easter; Easter to Midsummer.*Registrar.*—Rev. J. T. Alun Jones.**Degrees conferred.**—The College is an Associated College of the University of Wales. The curriculum is so arranged as:

1. To prepare candidates for the Christian Ministry.

2. To prepare for the Examinations in Theology prescribed by the University of Wales for the degree of B.D.

PROFESSORS.

Rev. D. Phillips, *Christian Doctrine and the Philosophy and History of Religion.*Rev. W. Porter, *Hebrew and Old Testament Exegesis.*Rev. J. O. Thomas, *Hellenistic Greek and New Testament Exegesis.*Rev. R. Morris, *Church History.***BALIGANJ (Calcutta).****DIOCESAN COLLEGE**, Baliganj, Calcutta. (1907.)

College for Indian Ladies. Affiliated to the University of Calcutta.

Terms: Three a year.*Students*: 103.**Degrees conferred.**—As in Calcutta University.

OFFICIAL.

Principal.—Sister Mary Victoria, C.S.J.B.

PROFESSORS.

H. Jackson (Miss), *Botany.*J. M. Kell (Miss), *English.*E. Jackson (Miss), *Mathematics.*Wright (Miss), *History.*C. Dass (Miss), *Logic.*N. Mukerji, *Economics.*K. Kundu *Sanskrit.*Pandit V. A. Mukerjee, *Sanskrit and Bengali.*B. Hurst (Miss), *Training Class.***Post-Graduate Courses.**—For Bachelor of Training of the Calcutta University.**Library.**—A College Library.**BALTIMORE (Maryland).****JOHNS HOPKINS UNIVERSITY**, Baltimore, Maryland. (1876.)*Terms*: In Philosophy and Engineering, 2 terms ("semesters")—October to February
February to June. In Medicine and Hygiene, 3 terms ("trimesters")—October to December, January to March, April to June.

Students (1918-19): College of Arts and Sciences, 350; Department of Engineering, 269; Medical School, 382; School of Hygiene, 22; College of Arts and Sciences, 350
Department of Engineering, 269; Graduate School, 135.
Budget (disbursement for all purposes, 1917-18): \$688,000.

OFFICIALS.

President.—Frank J. Goodnow.
Dean of the College Faculty.—John H. Latane.
Dean of the Medical Faculty.—J. Whitridge Williams.
Director of the School of Hygiene and Public Health.—William H. Welch.
Registrars.—Thos. R. Ball and Geo. J. Coy.
Treasurer.—W. Graham Boyce.
Librarian.—M. Lee Raney.

Degrees conferred.—Bachelor of Arts, Bachelor of Engineering, Bachelor of Science, Bachelor of Science in Chemistry, Bachelor of Science in Hygiene, Master of Arts, Master of Engineering (Civil, Electrical, Mechanical), Doctor of Philosophy, Doctor of Medicine, Doctor of Public Health, Doctor of Science in Hygiene.

PROFESSORS.

FACULTY OF PHILOSOPHY.

Professors :

P. Haupt, *Semitic Languages.*
 M. Bloomfield, *Sanskrit and Comparative Philology.*
 H. Wood, *German.*
 J. W. Bright, *English Literature.*
 E. E. Greene, *English.*
 L. S. Hulburt, *Mathematics.*
 J. S. Ames, *Physics.*
 F. Morley, *Mathematics.*
 W. J. A. Bliss, *Physics.*
 H. F. Reid, *Dynamic Geology and Geography.*
 R. W. Wood, *Experimental Physics.*
 J. H. Hollander, *Political Economy.*
 E. B. Mathews, *Mineralogy and Petrography.*
 J. M. Vincent, *European History.*
 W. W. Willoughby, *Political Science.*
 D. S. Johnson, *Botany.*
 H. Collitz, *Germanic Philology.*
 H. S. Jennings, *Zoology.*
 W. P. Mustard, *Latin.*
 E. F. Buchner, *Education.*
 J. B. Watson, *Experimental and Comparative Psychology.*
 E. A. Andrews, *Zoology.*
 B. E. Livingston, *Plant Physiology.*
 A. O. Lovejoy, *Philosophy.*
 C. K. Swartz, *Geology.*
 G. E. Barnett, *Statistics.*
 D. M. Robinson, *Classical Archeology and Epigraphy.*
 J. E. Gilpin, *Chemistry.*
 J. H. Latane, *American History.*
 C. W. E. Miller, *Greek.*
 K. Dunlap, *Experimental Psychology.*
 J. C. W. Fraser, *Analytical Chemistry.*
 G. R. Guild, *Military Science and Tactics.*
 S. O. Mast, *Zoology.*
 E. W. Berry, *Paleontology.*

Associate Professors :

W. Kurrelmeyer, *German.*
 A. H. Pfund, *Physics.*
 B. F. Lovelace, *Chemistry.*
 J. C. French, *English.*
 A. Ember, *Semitic Languages.*
 A. Cohen, *Mathematics.*
 R. V. D. Magoffin, *Greek and Roman History.*
 R. B. Roulston, *German.*
 J. T. Singewald, jr., *Economic Geology.*
 D. S. Blondheim, *French.*
 W. A. Patrick, *Chemistry.*
 R. P. Cowles, *Zoology.*

Associates :

F. R. Blake, *Oriental Languages.*
 H. Slonimsky, *Philosophy.*
 F. E. Bamberger (Miss), *Education.*
 G. Gruenbaum, *Romance Languages.*
 F. D. Murnaghan, *Applied Mathematics.*
 W. O. W. Thornton, *Political Economy.*

FACULTY OF MEDICINE.

Professors :

W. S. Halsted, *Surgery.*
 J. J. Abel, *Pharmacology.*
 W. H. Howell, *Physiology.*
 J. W. Williams, *Obstetrics.*
 L. F. Barker, *Clinical Medicine.*
 W. S. Thayer, *Medicine.*
 W. Jones, *Physiological Chemistry.*
 A. Meyer, *Psychiatry.*
 J. M. T. Finney, *Clinical Surgery.*
 J. Howland, *Pediatrics.*
 W. H. Lewis, *Physiological Anatomy.*
 W. G. MacCallum, *Pathology.*
 F. R. Sabin (Miss), *Histology.*
 T. S. Cullen, *Clinical Gynecology.*
 L. H. Weed, *Anatomy.*

Associate Professors :

- W. W. Russell, *Clinical Gynecology*.
 R. L. Randolph, *Clinical Ophthalmology and Otolaryngology*.
 T. B. Fitcher, *Clinical Medicine*.
 J. C. Boodgood, *Clinical Surgery*.
 M. Broedel, *Art as Applied to Medicine*.
 W. S. Baer, *Clinical Orthopedic Surgery*.
 D. R. Hooker, *Physiology*.
 T. R. Boggs, *Clinical Medicine*.
 J. T. Geraghty, *Clinical Urology*.
 F. H. Baetjer, *Roentgenology*.
 S. J. Crowe, *Clinical Laryngology*.
 C. G. Guthrie, *Medicine*.
 G. S. Heuer, *Surgery*.
 A. K. Krause, *Medicine*.
 D. W. Wilson, *Physiological Chemistry*.
 R. H. Follis, *Clinical Surgery*.
 T. R. Brown, *Clinical Medicine*.
 A. R. Dochez, *Medicine*.
 W. W. Pahner, *Medicine*.
 C. D. Snyder, *Physiology*.
 L. V. Hamman, *Clinical Medicine*.
 E. A. Park, *Pediatrics*.
 K. D. Blackfan, *Pediatrics*.
 G. W. Corner, *Anatomy*.
 C. M. Campbell, *Psychiatry*.

Associates :

- F. R. Smith, *Clinical Medicine*.
 G. Le Roy Hunner, *Clinical Gynecology*.
 L. P. Hamburger, *Clinical Medicine*.
 J. H. M. Knox, jr., *Clinical Pediatrics*.
 E. H. Richardson, *Clinical Gynecology*.
 C. R. Austrian, *Clinical Medicine*.
 W. A. Baetjer, *Clinical Medicine*.
 P. D. Lamson, *Exper. Therapeutics*.
 E. R. Strobel, *Clinical Dermatology*.
 D. M. Davis, *Urology*.
 G. E. Bennett, *Clinical Orthopedic Surgery*.
 A. L. Bloomfield, *Medicine*. [ology.
 S. Bayne-Jones, *Pathology and Bacteriology*.
 G. L. Taneyhill, jr., *Clinical Neurology*.
 C. Bagley, jr., *Experimental Neurology*.
 C. M. Byrnes, *Clinical Neurology*.
 S. R. Miller, *Clinical Medicine*.
 E. W. Bridgman, *Medicine*.
 W. A. Frontz, *Clinical Urology*.
 C. C. Macklin, *Anatomy*.
 R. S. Cunningham, *Anatomy*.
 C. H. Henser, *Anatomy*.
 H. H. Bullard, *Pathology*.
 L. D. Felton, *Bacteriology*.

Post-Graduate Courses.—

1. Arts and Sciences, including Classical, Modern, and Oriental Languages and Archæology, History, Political Economy and Political Science, Philosophy, Psychology, and Education, Mathematics, Physics, Chemistry, Geology and Mineralogy, Zoology, Botany, and Plant Physiology.
2. Medical Sciences.
3. Hygiene and Public Health.
4. Engineering (Civil, Electrical, Mechanical).

Librarian : McKendree L. Raney.

Associates—Continued :

- P. W. Clough, *Clinical Medicine*.
 A. Keidel, *Clinical Medicine*.
 W. E. Dandy, *Surgery*.
 E. D. Plass, *Obstetrics*.
 L. W. Ketron, *Clinical Dermatology*.
 G. F. Powers, *Clinical Pediatrics*.
 H. R. Slack, jr., *Clinical Laryngology*.

Clinical Professors :

- S. Theobald, *Ophthalmology*.
 H. M. Thomas, *Neurology*.
 J. W. Lord, *Dermatology*.
 T. C. Gilchrist, *Dermatology*.
 H. J. Berkley, *Psychiatry*.
 H. H. Young, *Urology*.

FACULTY OF HYGIENE AND PUBLIC HEALTH.**Professors :**

- [nology.
 W. H. Welch, *Bacteriology and Immunology*.
 W. H. Howell, *Physiology*.
 E. V. McCollum, *Bio-Chemistry*.
 R. Pearl, *Biometry and Vital Statistics*.

Associate Professors :

- W. W. Ford, *Bacteriology*.
 C. G. Bull, *Immunology*.
 D. Klein, *Bio-Chemistry*.
 L. J. Reed, *Biometry and Vital Statistics*.

Associates :

- G. H. Robinson, *Bacteriology*.
 R. A. Spaeth, *Physiology*. [tistics.
 J. R. Minor, *Biometry and Vital Statistics*.
 R. W. Hegner, *Protozoology*.
 W. W. Cort, *Helminthology*.
 W. C. Moore, *Immunology*.
 A. L. Meyer, *Physiology*.
 R. R. Hyde, *Immunology*.

FACULTY OF ENGINEERING.**Professors :**

- J. B. Whitehead, *Electrical Engineering*.
 C. C. Thomas, *Mechanical Engineering*.
 C. J. Tilden, *Civil Engineering*.

Associate Professors :

- A. G. Christie, *Mechanical Engineering*.
 W. B. Kouwenhoven, *Electrical Engineering*.
 J. H. Bringham, *Civil Engineering*.
 J. H. Gregory, *Civil Engineering*.

Associates :

- M. W. Pullen, *Electrical Engineering*.
 J. C. Smallwood, *Mechanical Engineering*.

UNIVERSITY OF MARYLAND, Baltimore, Maryland, U.S.A. (1807.

Terms : Two a year.

Students : 223.

OFFICIALS.

Dean of Medical Department.—J. M. H. Rowland, M.D.

Dean of Dental Department.—T. O. Heatwole, M.D., D.D.S.

Dean of Pharmacy.—E. F. Kelly, Phar.D.

Dean of Law.—Hon. H. D. Harlan.

Degrees conferred.—D.D.S., Phar.D., LL.B.

PROFESSORS.

Professors :

R. Winslow, *Surgery*.
 L. E. Neale, *Obstetrics*.
 C. L. Davies, *Anatomy*.
 J. C. Hemmeter, *Clinical Medicine*.
 A. M. Shipley, *Surgery*.
 S. K. Merrick, *Diseases of the Throat and Nose*.
 R. B. Warfield, *Surgery*.
 G. Wilson, *Medicine*.
 W. F. Lockwood, *Medicine*.
 G. W. Dobbin, *Obstetrics and Gynecology*.
 W. R. Stokes, *Bacteriology*.
 H. Friedenwald, *Ophthalmology and Otolology*.
 A. C. Harrison, *Surgery*.
 C. B. Gamble, *Medicine*.
 W. S. Gardner, *Gynecology*.
 S. McCleary, *Pathology*.
 J. Friedenwald, *Gastro-Enterology*.
 J. M. H. Rowland, *Obstetrics*.
 H. Woods, *Ophthalmology and Otolology*.
 C. E. Simon, *Clinical Pathology*.
 A. McGlannan, *Clinical Surgery and Surgical Pathology*.
 J. S. Fulton, *State Medicine*.
 H. Adler, *Clinical Medicine*.
 T. C. Gilchrist, *Dermatology*.
 F. Martin, *Clinical and Operative Surgery*.
 C. G. Hill, *Psychiatry*.
 A. C. Pole, *Descriptive Anatomy*.
 J. D. Blake, *Clinical Surgery*.
 C. O'Donovan, *Clinical Medicine and Pediatrics*.
 G. M. Linthicum, *Diseases of the Rectum and Colon*.
 W. B. Perry, *Clinical Gynecology*.
 T. B. Marden, *Histology and Embryology*.
 J. M. Hundley, *Clinical Gynecology*.
 R. T. Taylor, *Orthopedic Surgery*.
 J. R. Winslow, *Diseases of the Throat and Nose*.
 J. E. Giehner, *Clinical Medicine and Physical Therapeutics*.
 C. W. McElfresh, *Clinical Medicine*.
 I. J. Spear, *Neurology and Clinical Psychiatry*.
 E. N. Brush, *Psychiatry*.
 C. H. Jones, *Hygiene and Public Health*.

Professors—Continued :

J. Ruhrah, *Pediatrics*.
 C. F. Blake, *Proctology*.
 F. D. Sanger, *Diseases of the Throat and Nose*.
 B. McGlone, *Physiology*.
 G. C. Lockard, *Clinical Medicine*.
 S. J. Fort, *Materia Medica*.
 C. E. Brack, *Clinical Obstetrics*.
 H. G. Beck, *Clinical Medicine*.
 A. Cotton, *Orthopedic Surgery and Roentgenology*.
 A. C. Gillis, *Neurology and Clinical Psychiatry*.
 J. H. Branham, *Clinical Surgery*.
 B. P. Musc, *Clinical Obstetrics*.
 W. T. Watson, *Therapeutics*.
 C. L. Summers, *Clinical Pediatrics*.
 H. R. Spencer, *Pathology*.
 H. B. Wylie, *Physiological Chemistry*.
 H. J. Walton, *Roentgenology*.
 R. E. Myers, *Pharmacology*.
 J. G. Jay, *Surgery*.
 N. Winslow
 P. Edmunds, *Genito-Urinary Diseases*.
 W. Tarun, *Ophthalmology and Otolology*.
 W. D. Wise, *Surgery*.
 E. B. Friedenwald, *Pediatrics*.
 C. Riely, *Orthopedic Surgery*.
 S. M. Cone
 W. S. Smith, *Gynecology*.
 J. W. Holland, *Surgery*.
 A. J. Underhill, *Genito-Urinary Diseases*.
 E. B. Freeman, *Gastro-Enterology*.
 J. C. Lumpkin, *Surgery*.
 T. F. Leitz, *Gastro-Enterology*.
 J. W. Downey, *Otolology*.

Associate Professors :

W. B. Wolf, *Genito-Urinary Diseases*.
 H. Brent, *Gynecology*.
 M. Rosenthal, *Genito-Urinary Surgery and Dermatology*.
 H. C. Knapp, *Medicine*.
 A. Samuels, *Gynecology*.
 W. W. Requardt, *Surgery*.
 G. W. Mitchell, *Diseases of the Throat and Nose*.
 L. J. Rosenthal, *Proctology*.
 J. R. Abercrombie, *Dermatology*.
 C. C. Conser, *Physiology*.
 H. J. Maldeis, *Clinical Pathology*.

Associate Professors—Continued :

- J. D. Reeder, *Proctology*.
 H. C. Blake, *Clinical Surgery*.
 R. P. Bay "
 F. S. Lynn, *Surgery*. "
 G. M. Settle, *Neurology and Clinical
 Medicine*.
 C. C. W. Judd, *Medicine*.
 E. H. Hutchins, *Surgery*.
 T. R. Chambers "
 H. B. Stone "
 R. W. Locher, *Operative and Clinical
 Surgery*.
 J. K. B. E. Seegar, *Obstetrics*.
 S. G. Davis, *Anesthesia*.
 H. D. McCarthy, *Clinical Medicine*.
 31 Associates, 2 Demonstrators, 20
 Instructors, and 27 Assistants.

THE DENTAL DEPARTMENT.

Professors :

- T. O. Heatwole, *Dental Materia Medica
 and Therapeutics*.
 J. W. Smith, *Dental Prosthesis*.
 E. E. Cruzen, *Crown and Bridge Work
 and Ceramics*.
 E. F. Kelly, *Chemistry and Metallurgy*.
 E. Baskin, *Operative Dentistry and
 Orthodontia*.
 A. H. Paterson, *Dental Technics*.
 J. B. Robinson, *Clinical Dentistry and
 Dental Anatomy*.
 B. M. Hopkinson, *Oral Hygiene and
 Dental History*.
 R. P. Day, *Oral Surgery*.
 R. L. Mitchell, *Bacteriology and
 Pathology*.
 J. L. Wright, *Theoretical and Practical
 Anatomy*.
 H. J. Maldeis, *Histology*.
 1 Lecturer, 4 Instructors, 3 Demon-
 strators.

LAW DEPARTMENT.

Professors :

- A. Bagby, *Testamentary Law*.
 R. Barton, *Commercial Law*.
 F. Bramble, *Commercial Law, and Bills
 and Notes*.
 J. W. Bryan, *Common Carriers*.

Professors—Continued :

- H. Bryant, *Practice in State Courts*.
 W. C. Chesnut, *Insurance*.
 W. B. Coe, *Title and Conveyancing*.
 J. U. Dennis, *Personal Property, In-
 cluding Bailments*.
 E. T. Dickerson, *Contracts*.
 E. Frank, *Torts*.
 J. P. Gorter, *Pleading and Evidence*.
 H. D. Harlan, *Domestic Relations*.
 O. McH. Howard, *Equity Jurisprudence*.
 A. L. Jackson, *Conflict of Laws, and
 International Law*.
 S. H. Lauchheimer, *Bankruptcy and
 Banking Law*.
 S. S. Janney, *Real Property*.
 A. S. Niles, *Constitutional Law*.
 E. O'Dunne, *Criminal Law and Medical
 Jurisprudence*.
 A. C. Ritchie, *Elementary Law*.
 J. F. Rose, *Jurisdiction and Procedure
 of the Federal Courts, Admiralty,
 Patents, Trade-marks and Copy-
 rights*.
 G. R. Sappington, *Practice Court*.
 M. A. Soper, *Corporations*.
 C. A. Tucker, *Equity Procedure*.
 J. N. Ulman, *Sales of Personal Property
 and Agency*.

**DEPARTMENT OF PHAR-
 MACOLOGY.**

Professors :

- D. M. R. Culbreth, *Materia Medica,
 Botany and Pharmacognosy*.
 D. Base, *Chemistry and Vegetable
 Histology*.
 H. P. Hynson, *Commercial Pharmacy
 and Store Practice*.
 E. F. Kelly, *Theoretical and Applied
 Pharmacy*. (Dean of the Faculty.)
 J. C. Wolf, *Dispensing*.
 R. L. Mitchell, *Physiology and Hygiene*.
 H. J. Maldeis, *Bacteriology*.

Associate Professors :

- C. C. Plitt, *Botany, Materia Medica and
 Vegetable Histology*.
 F. Lentz, *Pharmacy*.
 H. E. Wich, *Chemistry*.
 1 Lecturer, 1 Demonstrator.

Post-Graduate Courses.—In all medical branches.

Library.—Medical Library. *Librarian* : Mrs. R. L. Briscoe.

THE CARNEGIE INSTITUTION DEPARTMENT OF EMBRYOLOGY, Johns Hopkins
 Medical School, Baltimore, Maryland. (1913.)

OFFICIALS.

Director.—Franklin P. Mall.
Investigatory staff of 5 members.

Researches chiefly concern human Embryology.

GOUCHER COLLEGE, Baltimore, Maryland. (1885.)

Goucher College is one of the six leading colleges for women in the United States. In the survey made by the United States Bureau of Education, six colleges for women were placed in Class I., among which was Goucher College. Only first-class undergraduate work is attempted. The students of Goucher College, however, show a very high percentage among the number of students at universities and post-graduate institutions.

Terms, two semesters in school year. *Students* (1918-19), 712.

OFFICIALS.

- President*.—William Westley Guth, Ph.D.
Dean.—Eleanor L. Lord, Ph.D.
Acting Dean.—Eugene Newton Curtis, Ph.D.
Assistant Dean.—Ala. E. Winslow, A.M.
Registrar.—Carrie Mae Probst, A.B.
Student Counsellor.—Elizabeth C. Mason, A.B.
Librarian.—Eleanor W. Falley, B.S.

Degree conferred.—B.A.

Professors :

- Clara L. Bacon, *Mathematics*.
 Niels H. Debel, *Social Sciences*.
 Raymond Philip Dougherty, *Biblical Literature*.
 Hans Froelicher, *German*.
 Annette B. Hopkins, *English*.
 Jessie L. King, *Physiology*.
 Ernest P. Kuhl, *English*.
 Howard Huntley Lloyd, *Chemistry*.
 William H. Longley, *Biology*.
 Eleanor L. Lord, *History*.
 Agnes Low Rogers, *Education*.
 Samuel N. Taylor, *Physics*.
 Thaddeus P. Thomas, *Social Science*.
 Lilian Welsh, *Physiology and Hygiene*.
 Ruth Wheeler, *Home Economics*.

Associate Professors :

- Gertrude Carman Bussey, *Philosophy*.
 Eugene Newton Curtis, *History*.
 Herman Louis Ebeling, *Greek*.

Associate Professors—Continued :

- Katherine Jeanne Gallagher, *History*.
 Florence Parthenia Lewis, *Mathematics*.
 Adeline Pellissier, *French*.
 Stuart A. Queen, *Constructive Philanthropy*.
 E. B. Reuter, *Sociology*.
 Mary Wilhelmine Williams, *History*.

Assistant Professors :

- Harry T. Baker, *English*.
 Ethel Bowman, *Psychology*.
 Ella Lonn, *History*.
 Stella McCarty, *Education*.
 Raleigh Webster Stone, *Economics*.
 Emma Curtiss Tucker, *English*.
 Ola Elizabeth Winslow, *English*.
 Robert Shafer, *English*.
 Wilfred A. Beardsley, *Romanic Languages*.
 19 Instructors, 18 Assistants.

Museums.—

- General Museum, containing valuable ancient and modern Indian collections.
 Babylonian Museum, with over one thousand Babylonian and Syrian tablets.
 Biological Museum.

BANGOR (Wales).

UNIVERSITY COLLEGE OF NORTH WALES, Bangor. (1884.)
 A Constituent College of the University of Wales.

For the purposes of residence, the two Training Colleges and the two Theological Colleges (Congregational and Baptist) situated in Bangor.

Terms : Three a year. *Students* : 500.

Budget :

Government Grant	..	..	..	..	£14,000
Total Receipts	..	..	..	..	£23,000
Expenditure	..	..	..	..	£24,000

OFFICIALS.

President.—The Right Hon. Lord Kenyon, K.C.V.O.

Principal.—Sir H. R. Reichel, M.A., LL.D.

Secretary and Registrar.—J. E. Lloyd, M.A., D.Litt.

Degrees conferred.—

Faculty of Arts:	B.A., M.A., D.Litt., D.Phil.
„	Science: B.Sc., M.Sc., D.Sc.
„	Music: B.Mus., M.Mus., D.Mus.
„	Law: LL.B., LL.M., LL.D.
„	Theology: B.D., D.D.
„	Medicine: M.B., B.Ch., M.Ch., M.D.

Hoods.—Bachelors' hoods are of the Oxford form; Masters' and Doctors' hoods are made of black stuff or silk, except in the Faculty of Music in which the hoods are made of dark blue silk. Masters' hoods are made of black silk, and Doctors' hoods of scarlet cloth. Bachelors' hoods are bordered, and Masters' and Doctors' hoods lined with silk of the colours proper to their respective faculties.

The colours proper to the respective faculties are:

The Faculty of Arts: Mazarin blue shot with green.

The Faculty of Science: Bronze colour (yellow shot with black).

The Faculty of Music: Pearl colour (a shot silk of three hues).

The Faculty of Law: Red shot with purple.

The Faculty of Theology: Mazarin blue shot with red.

The Faculty of Medicine: Green shot with black, edged with white.

PROFESSORS.

Professors : ARTS.

- T. Hudson-Williams, *Greek*.
 E. V. Arnold, *Latin*.
 H. G. Wright, *English Language and Literature*.
 Sir J. Morris Jones, *Welsh*.
 O. H. Fynes-Clinton, *French and Romance Philology*.
 T. W. Davies, *Semitic Languages*.
 J. E. Lloyd, *History*.
 Sir H. R. Reichel, *Constitutional History*.
 J. Gibson, *Logic and Philosophy*.
 R. L. Archer, *Education*.

Lecturers :

- A. S. Turberville, *History*.
 A. Paterson (Miss), *Education*.
 R. Richards, *Economics*.
 I. Williams, *Welsh Literature*.

Professors : SCIENCE.

- G. H. Bryan, *Mathematics*.
 E. Taylor Jones, *Physics*.

Professor —Continued :

- K. J. P. Orton, *Chemistry*.
 R. W. Phillips, *Botany*.
 P. J. White, *Zoology*.
 R. G. White, *Agriculture*.
 F. Story, *Forestry*.

Advisers :

- R. Al n Roberts, *Agricultural Botany*.
 G. W. Robinson, *Agricultural Chemistry*.

Lecturers :

- W. E. H. Berwick, *Mathematics*.
 G. B. Mathews, *Mathematics*.
 W. Morris Jones, *Physics*.
 E. Robinson, *Chemistry*.
 G. Walworth, *Agricultural Chemistry*.
 T. Whitehead, *Agricultural Botany*.

County Organisers :

- I. Jones, *Agriculture*.
 G. Jones
 20 Assistant Lecturers, 18 Instructors,
 6 Instructors.

Post-Graduate Courses.—Provision is made for post-graduate work in all subjects taught at the College. Special facilities are provided for research in Welsh History, the Celtic Languages, and cognate subjects.

Libraries.—

Arts and Welsh Library.

Science and Technical Library. 50,000 volumes. *Hon. Librarian* : J. E. Lloyd, M.A., D.Litt.

Museum.—College Museum. *Curator* : P. J. White, M.B., F.R.S.E.

BANGOR JOINT SCHOOL OF UNIVERSITY THEOLOGICAL STUDIES, Bangor.

- (a) The Bala-Bangor Independent College. (1841.)
 (b) The North Wales Baptist College. (1862).

For the purposes of teaching the B.D. Syllabus of the University of Wales, the Staffs of the two Colleges are united, and the two Colleges together constitute one of the Associated Theological Colleges in the University of Wales, under the title, the "Bangor Joint School of University Theological Studies."

Terms : Three per year. *Students* : 60.

OFFICIAL.

Principals.—T. Rees, M.A. (Independent College).
 S. Morris, M.A. (Baptist College).

Degrees conferred.—B.D. degree of the University of Wales.

PROFESSORS.

- | | |
|--|--|
| T. Rees, <i>Christian Doctrine and Philosophy of Religion.</i> | S. Morris, <i>New Testament Greek.</i> |
| T. Rhys, <i>New Testament Exegesis.</i> | J. T. Evans, <i>Hebrew.</i> |
| J. Morgan Jones, <i>History of the Christian Church and Christian Education.</i> | (Vacant), <i>Homiletics and Pastoral Theology.</i> |

Post-Graduate Courses.—The work is all of a post-graduate nature. All B.D.'s of Wales must first have an Arts or Science degree.

Libraries.—Each of the two Colleges has its own Library of Theological and Philosophical books.

AFFILIATED INSTITUTIONS.

The two Colleges are distinct institutions, but are amalgamated for all purposes of teaching, and in the University of Wales form one of its Associated Colleges.

BANKURA (India).

WESLEYAN COLLEGE, Bankura, Bengal. (1903.)

Terms : Those of the Calcutta University. *Students* : 412.

OFFICIAL

Principal.—A. E. Brown, M.A., B.Sc.

PROFESSORS.

- | | |
|---------------------------------------|-------------------------------------|
| Rev. A. E. Brown, <i>Mathematics.</i> | A. M. Kabyatirtha, <i>Sanskrit.</i> |
| Rev. E. J. Thompson, <i>English.</i> | J. C. Banerji, <i>Economics.</i> |
| Rev. A. R. Spooner, „ | J. C. Guha, <i>History.</i> |
| A. E. Brown (Mrs), „ | R. C. Sen, <i>Philosophy.</i> |
| B. B. Banerji „ | S. S. Banerji, <i>Logic.</i> |
| S. Karmakar, <i>Mathematics.</i> | R. C. Banerji, <i>Physics.</i> |
| R. S. Ghosh, <i>Sanskrit.</i> | P. K. Banerji, <i>Chemistry.</i> |

BARBADOS (West Indies).

CODRINGTON COLLEGE, Barbados. (1710.)

Lieut.-Col. Christopher Codrington, Captain-General of the Leeward Islands, left his mansion and estates to S.P.G. in 1710 for the purpose of founding a college for the evangelisation of the negro population.

Affiliated to Durham University, England.

Terms : Three per year—October to June. *Students* : 16.

Principal.—Rev. J. C. Wippell, M.A. (Ox.) B.D., (Lond.).

Degrees and Hoods as Durham University.

PROFESSORS.

Rev. E. J. Lee, *Hebrew and Theology*.

W. C. Dunlop, *Classics*.

O. Emitage, *Mathematics*.

B. Clarke, *Medicine*.

Post-Graduate Courses.—B.D. Durham.

Institute.—Rawle Training Institute for male and female Elementary Teachers, run in connection with the College.

College Museum.

Library, about 6,000 volumes.

IMPERIAL DEPARTMENT OF AGRICULTURE, Barbados. (1898.)

STAFF.

Imperial Commissioner of Agriculture for the West Indies.—Sir Francis Watts, K.C.M.G., D.Sc., F.I.C., F.C.S.

Entomologist.—H. A. Ballou, M.Sc.

Mycologist.—W. Nowell, D.I.C.

Scientific Assistant.—W. R. Dunlop.

Chief Clerk.—A. G. Howell.

The Imperial Commissioner of Agriculture is in administrative charge of the botanic and experiment stations, maintained for the distribution of economic plants and the improvement of sugar, cacao, lime fruit, cotton, and other crops, and of the agricultural schools and local experiment plots at Grenada, St. Vincent, St. Lucia, Dominica, Montserrat, Antigua, St. Kitts-Nevis, and the Virgin Islands. He visits these Colonies when required to afford assistance in regard to the administration of the local agricultural departments, the outbreak of diseases, and the general development of planting industries. His services are also available as Consulting Officer in agricultural matters to the Governments of Jamaica, British Guiana, Trinidad, British Honduras, the Bahamas, and Bermuda.

Publications.—

The West Indian Bulletin (quarterly).

The Agricultural News (fortnightly.)

BATON ROUGE (Louisiana).

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—W. R. Dodson.

BEDFORD COLLEGE FOR WOMEN. See LONDON.

BEHAR NATIONAL COLLEGE. See PATNA.

BELFAST.

QUEEN'S UNIVERSITY, Belfast. (1845.)

Terms : Three per year.

OFFICIALS.

Visitor.—His Majesty the King.

Chancellor.—The Right Hon. the Earl of Shaftesbury, K.C.V.O., K.P., LL.D.

Pro-Chancellors.—

Sir H. Shaw Wilkinson, LL.D., D.L.

Prof. Sir Samuel Dill, M.A., Litt.D., LL.D.

The Right Hon. Sir J. Newell Jordan, M.A., K.C.B., K.C.M.G., G.C.I.E.

President and Vice-Chancellor.—The Rev. Thomas Hamilton, M.A., D.D., LL.D.

Deans of Faculties :

Arts.—Prof. A. C. Dixon, M.A., Sc.D., F.R.S.

Science.—(Vacant).

Law.—Prof. J. S. Baxter, LL.D.

Medicine.—Prof. Wm. St. Clair Symmers, M.B.

Commerce.—Prof. H. O. Meredith, M.A., M.Com.

Registrar.—Prof. Thomas Sinclair, C.B., M.D., M.Ch., F.R.C.S.Eng.

Secretary.—John M. Finnegan, B.A., B.Sc.

Bursar.—John Green, C.A.

PROFESSORS.

Professors :

Sir S. Dill, *Greek*.
 R. M. Henry, *Latin*.
 A. C. Dixon, *Mathematics*.
 G. G. Smith, *English Literature*.
 D. L. Savory, *French*.
 J. E. Todd, *Modern History*.
 R. A. Williams, *German*.
 H. O. Meredith, *Economics*.
 J. Laird, *Logic and Metaphysics*.
 W. J. McCallister, *Education*.
 W. B. Morton, *Physics*.
 G. Wilson, *Zoology*.
 (Vacant), *Botany*.
 F. H. Hummel, *Civil Engineering*.
 J. A. Strahan, *Jurisprudence and Roman Law*.
 J. S. Baxter, *English Law*. [Law].
 T. H. Milroy, *Physiology*.
 W. St. C. Symmers, *Pathology*.
 T. Sinclair, *Surgery*.
 J. A. Lindsay, *Medicine*.
 Sir J. Byers, *Midwifery*.
 T. Walmsley, *Anatomy*.
 A. W. Stewart, *Chemistry*.

Lecturers :

A. O. Belfour, *English Language*.
 Rev. F. W. O'Connell, *Celtic*.

Lecturers—Continued :

C. Gill, *Economic History*.
 J. A. Dorward, *Moral Philosophy and History of Philosophy*.
 Rev. D. O'Keeffe, *Scholastic Philosophy*.
 L. Walker, *Music*.
 R. T. Beatty, *Physics*.
 J. Wylie
 A. K. Macbeth, *Organic Chemistry*.
 A. R. Dwerryhouse, *Geology and Geography*.
 (Vacant), *Commercial Geography*.
 J. A. Milroy, *Bio-Chemistry*.
 J. A. Craig, *Ophthalmology and Otolology*.
 W. J. Wilson, *Hygiene and Sanitary Science*.
 W. St. Clair Symmers, *Medical Jurisprudence*.
 T. Houston, *Medical Jurisprudence*.
 P. T. Crymble, *Applied Anatomy*.
 H. W. Bailie, *Public Health Administration*.
 (Vacant), *Pharmacology*.
 H. Oughton, *Accountancy*.
 4 Clinical Lecturers, 1 Teacher.

BELOIT (Wisconsin).

BELOIT COLLEGE. No particulars received.

THE AMERICAN MICROSCOPICAL SOCIETY, Beloit College, Beloit, Wisconsin. (1878.)

OFFICIALS.

President.—Prof. L. E. Griffin, University of Pittsburg, Pittsburg, Pa.

Secretary.—Prof. Paul S. Welch, University of Michigan, Ann Arbor, Mich.

Publishes its Transactions as a Quarterly Journal. Is now in its 38th Volume.

Object : The encouragement and publication of research in microscopy and in the fields served by the microscope.

Endowment fund in aid of research, \$6,000.

BERKELEY (California).

UNIVERSITY OF CALIFORNIA, Berkeley, California. (1860.)

Sessions : Two a year.

OFFICIALS.

President.—B. I. de Wheeler.

Secretary.—Morse A. Cartwright.

Librarian.—H. L. Lepp, A.B.

Degrees conferred.—A.B., B.S. (in Commerce, Agriculture, Mechanics, Mining, Civil Engineering, and Chemistry), Gr.Arch., Gr.Ed., J.D., M.D., Gr.P.H., D.D.S., Ph.C., LL.B., Ph.G.

PROFESSORS.

COLLEGE OF LETTERS AND
SCIENCE.

Professors :

- A. L. Kroeber, *Anthropology*.
 A. O. Leuschner, *Astronomy*.
 R. T. Crawford, *Practical Astronomy*.
 W. R. Bloor, *Biochemistry*.
 W. A. Setchell, *Botany*.
 W. L. Jepson, *Dendrology*.
 C. B. Lipman, *Soil Chemistry and Bacteriology*.
 H. Kower, *Drawing*.
 C. M. Gayley, *English Language and Literature*.
 W. M. Hart, *English Philology*.
 C. W. Wells, *English Composition*.
 B. P. Kurtz, *English*.
 R. T. Holbrook, *French*.
 A. J. Carnoy, *Romanic Philology*.
 H. K. Schilling, *German Language and Literature*.
 C. Paschall, *German*.
 J. T. Allen, *Greek*.
 I. M. Linforth, *Greek*.
 H. E. Bolton, *American History*.
 E. I. McCormac, *American History*.
 L. J. Paetow, *Medieval History*.
 W. A. Merrill, *Latin Language and Literature*.
 E. K. Rand, *Classical Literature*.
 L. J. Richardson, *Latin*.
 E. T. Williams, *Oriental Languages and Literature*.
 C. H. Rieber, *Logic*.
 G. M. Stratton, *Psychology*.
 G. P. Adams, *Philosophy*.
 F. L. Kleeberger, *Physical Education*.
 W. E. Magee, *Physical Culture*.
 D. P. Barrows, *Political Science*.
 E. Elliott, *International Law and Politics*.
 T. H. Reed, *Municipal Government*.
 M. C. Flaherty, *Forensics*.
 G. R. Noyes, *Slavic Languages*.
 R. Schevill, *Spanish*.
 C. A. Kofoid, *Zoology*.
 W. E. Ritter, "
 S. J. Holmes, "
 J. F. Daniel, "
 E. P. Lewis, *Physics*.
 E. E. Hall, "
 R. S. Minor, "
 M. W. Haskell, *Mathematics*.
 D. N. Lehmer, "
 F. Cajori, *History of Mathematics*.
 C. A. Noble, *Mathematics*.
 T. M. Putnam, "
 R. T. Legge, *Hygiene*.
 J. T. Nance, *Military Science and Tactics*.
 R. S. Holway, *Physical Geography*.

Professors—Continued :

- A. C. Lawson, *Mineralogy and Geology*.
 G. D. Louderback, *Geology*.
 J. C. Merriam, *Palaeontology and Historical Geology*.
 A. S. Eakle, *Mineralogy*.
 F. P. Gay, *Pathology*.

Associate Professors :

- E. W. Gifford (associate curator of the Anthropology Museum).
 O. M. Washburn, *Classical Archaeology*.
 M. F. Patterson (Miss), *Household Art*.
 T. F. Sanford, *English Literature*.
 H. L. Bruce, *English Composition*.
 L. M. Turner, *French*.
 F. J. Teggart, *History*.
 W. A. Morris, *English History*.
 C. E. Chapman, *Latin-American and Californian History*.
 A. F. Morgan (Miss), *Household Science*.
 C. Price, *Latin*.
 H. C. Nutting, *Latin*.
 M. E. Deutsch, "
 C. D. von Neumayer, *Public Speaking*.
 A. W. Ryder, *Sanskrit*.
 W. Popper, *Semitic Languages*.
 S. G. Morley, *Spanish*.
 J. Grinnell, *Zoology*.
 F. B. Sumner, "
 W. J. Raymond, *Physics*.
 J. H. McDonald, *Mathematics*.
 J. N. Force, *Epidemiology*.
 G. Y. Rusk, *Pathology*.
 I. C. Hall, *Bacteriology*.

Assistant Professors :

- P. Radin, *Anthropology*.
 S. Einarsen, *Practical Astronomy*.
 C. L. A. Schmidt, *Biochemistry*.
 N. L. Gardner, *Botany*.
 T. H. Goodspeed, "
 F. J. Smiley, *Economic Botany*.
 C. C. Judson, *Antique Drawing*.
 W. J. Wythe, *Mechanical Drawing*.
 E. Neuhaus, *Decorative Design*.
 P. W. Nahl, *Freehand Drawing and Art Anatomy*.
 H. E. Cory, *English Composition*.
 A. G. Brodeur, *English Philology*.
 R. W. Gordon, *English Composition*.
 S. J. Hume, *Dramatic Literature and Art*.
 G. A. Smithson, *English*.
 L. Bacon, *English*.
 J. T. Clark, *French*.
 P. B. Fay, "
 A. Solomon, "
 G. M. Calhoun, *Greek*.
 H. I. Priestley, *Mexican History*.

Associate Professors—Continued :

- K. C. Leebrick, *History*.
 J. J. Van Nostrand, *Ancient History*.
 R. Okey (Miss), *Household Science*.
 T. Petersson, *Latin*.
 E. G. Stricklen, *Music*.
 W. Brown, *Psychology*.
 C. I. Lewis, *Philosophy*.
 J. Loewenberg, *Philosophy*.
 O. L. Bridgman (Miss), *Abnormal Psychology*.
 R. Elliot (Miss), *Physical Education*.
 S. R. Davis (Miss), *Physical Education*.
 D. E. Watkins, *Public Speaking*.
 N. B. Drury, *Forensics*.
 C. Bransby, *Spanish*.
 E. Buceta
 J. A. Long, *Embryology*.
 F. P. Regan, *Zoology*.
 L. T. Jones, *Physics*.
 B. L. Clark, *Paleontology*.
 B. A. Bernstein, *Mathematics*.
 F. Irwin, *Mathematics*.
 T. Buck
 R. L. Cunningham (Miss), *Hygiene and Physician for Women*.
 L. K. Underhill, *Military Science and Tactics*.
 N. E. Fiske, *Military Science and Tactics*.
 O. C. Nichols, *Military Science and Tactics*.
 C. D. O'Sullivan, *Military Science and Tactics*.
 7 Lecturers, 68 Instructors, 33 Assistants, and 6 Teaching Fellows.

COLLEGE OF COMMERCE.

Professors :

- C. C. Plehn, *Finance*.
 H. R. Hatfield, *Accounting*.
 S. Daggett, *Railroad Economics*.
 L. Hutchinson, *Commerce*.
 J. B. Peixotto (Miss), *Social Economics*.
 I. B. Cross, *Economics*.

Associate Professors :

- L. W. Stebbins, *Social Economy*.
 S. Blum, *Economics*.

Assistant Professors :

- W. Brown, *Psychology*.
 F. R. Macaulay, *Economics*.
 4 Instructors, 4 Lecturers, 1 Assistant.

COLLEGE OF AGRICULTURE.

Professors :

- T. F. Hunt, *Agriculture*.
 H. E. Van Norman, *Dairy Management*.
 H. J. Webber, *Plant Breeding*.
 M. E. Jaffa, *Nutrition*.
 C. W. Woodworth, *Entomology*.
 R. E. Smith, *Plant Pathology*.
 J. E. Coit, *Citriculture*.

Professors—Continued :

- C. F. Shaw, *Soil Technology*.
 J. W. Gregg, *Floriculture and Landscape Gardening*.
 J. W. Gilmore, *Agronomy*.
 F. T. Bioletti, *Viticulture and Enology*.
 W. T. Clarke, *Agricultural Extension*.
 J. S. Burd, *Agricultural Chemistry*.
 C. B. Lipman, *Soil Chemistry and Bacteriology*.
 C. M. Haring, *Veterinary Science*.
 E. B. Babcock, *Genetics*.
 G. H. True, *Animal Husbandry*.
 J. T. Barrett, *Plant Pathology*.
 F. W. Woll, *Animal Nutrition*.
 W. Mulford, *Forestry*.
 W. P. Kelley, *Agricultural Chemistry*.
 D. T. Mason, *Forestry*.
 H. J. Quayle, *Entomology*.
 E. Mead, *Rural Institutions*.
 H. S. Reed, *Plant Physiology*.
 F. Adams, *Irrigation Investigations*.
 C. L. Roadhouse, *Dairy Industry*.
 L. D. Batchelor, *Orchard Management*.
 H. S. Fawcett, *Plant Pathology*.
 J. C. Whitten, *Pomology*.
 W. L. Howard
 W. G. Hummel, *Agricultural Education*.
 B. H. Crocheron, *Agricultural Extension*.
 R. L. Adams, *Farm Management*.

Associate Professors :

- W. T. Horne, *Plant Pathology*.
 E. J. Lea, *Nutrition*.
 W. B. Herms, *Parasitology*.
 J. E. Dougherty, *Poultry Husbandry*.
 G. H. Hart, *Veterinary Science*.
 P. B. Kennedy, *Agronomy*.
 S. S. Rogers, *Olericulture*.
 S. H. Beckett, *Irrigation Practice*.
 F. L. Griffin, *Agricultural Education*.
 J. I. Thompson, *Animal Husbandry*.
 J. Traum, *Veterinary Science*.
 J. W. Nelson, *Agricultural Extension*.
 D. R. Hoagland, *Agricultural Chemistry*.
 T. F. Hunt, *Agricultural Extension*.
 C. W. Rubel
 D. Bruce, *Forestry*.
 F. M. Hayes, *Veterinary Science*.

Assistant Professors :

- B. A. Madson, *Agronomy*.
 W. E. Packard, *Agricultural Extension*.
 W. V. Cruess, *Zymology*.
 G. R. Stewart, *Agricultural Chemistry*.
 O. J. Kern, *Agricultural Education*.
 R. S. Vaile, *Orchard Management*.
 W. Metcalf, *Forestry*.
 E. H. Smith (Miss), *Plant Pathology*.
 E. C. Van Dyke, *Entomology*.
 W. F. Gericke, *Soil Chemistry*.

Assistant Professors—Continued :

- A. Smith, *Soil Technology*.
 R. E. Clausen, *Genetics*.
 E. O. Essig, *Entomology*.
 V. C. Bryant, *Agricultural Extension*.
 G. P. Gray, *Entomology*.
 H. S. Baird, *Dairy Industry*.
 G. W. Hendry, *Agronomy*.
 A. H. Hendrickson, *Pomology*.
 W. P. Tufts, *Pomology*.
 P. L. Hibbard, *Agricultural Chemistry*.
 W. H. Heileman, *Agricultural Extension*.
 W. W. Mackie, *Agronomy*. [sion.
 T. Tavernetti, *Farm Practice*.
 W. W. Weir, *Soil Technology*.
 F. J. Veihmeyer, *Irrigation Investigations*.
 F. C. H. Flossfeder, *Viticulture*.
 E. L. Overholser, *Pomology*.
 S. B. Freeborn, *Entomology*.
 C. F. Elwood, *Agricultural Extension*.
 E. C. Voorhies, *Animal Husbandry*.
 W. E. Lloyd, *Poultry Husbandry*.
 L. J. Fletcher, *Agricultural Engineering*.
 H. G. Eddy (Miss), *Agricultural Extension*.
 S. H. Davisman, *Agricultural Education*.
 E. Fritz, *Forestry*. [tion.
 H. J. Baade, *Agricultural Extension*.
 R. M. Hagen " "
 B. J. Jones " "
 M. A. W. Lee " "
 G. E. Merrill " "
 C. S. Myszka " "
 L. B. Smith " "
 R. N. Wilson " "
 P. Talbot " "
 H. A. Weinland " "
 C. M. Conner " "
 J. F. Wilson, *Animal Husbandry*.
 A. R. C. Haas, *Plant Physiology*.
 A. H. Hoffman, *Agricultural Engineering*.
 23 Instructors, 2 Assistants.

COLLEGE OF MECHANICS.**Professors :**

- C. L. Cory, *Electrical Engineering*.
 J. N. Le Conte, *Engineering Mechanics*.
 B. F. Raber, *Mechanical Engineering*.
 B. M. Woods, *Aerodynamics*.

Associate Professor :

- H. B. Langille, *Machine Design and Mechanical Drawing*.

Assistant Professors :

- L. N. Robinson, *Electrical Engineering*.
 G. L. Greves " "
 F. H. Cherry " "
 A. Press " "
 A. B. Domonoske, *Mechanical Engineering*.

1 Lecturer, 1 Instructor, 2 Assistants.

COLLEGE OF MINING.**Professor :**

- F. H. Probert, *Mining*.

Associate Professors :

- E. A. Hersam, *Metallurgy*.
 W. S. Weeks, *Mining*.
 L. C. Uren, *Mining*.

Assistant Professor :

- W. S. Morley, *Metallurgy*.

COLLEGE OF CIVIL ENGINEERING.**Professors :**

- C. Derleth, *Civil Engineering*.
 C. G. Hyde, *Sanitary Engineering*.
 F. S. Foote, *Railroad Engineering*.
 B. A. Etcheverry, *Irrigation Engineering*.

Associate Professors :

- A. C. Alvarez, *Civil Engineering*.
 S. T. Harding, *Irrigation*.

Assistant Professors :

- A. J. Eddy, *Civil Engineering*.
 W. F. Langelier, *Sanitary Engineering*.
 C. T. Wiskocil, *Civil Engineering*.
 1 Instructor.

COLLEGE OF CHEMISTRY.**Professors :**

- G. N. Lewis, *Physical Chemistry*.
 E. O'Neill, *Inorganic Chemistry*.
 W. C. Bray, *Chemistry*.
 J. H. Hilderbrand, *Chemistry*.
 W. C. Blasdale, *Chemistry*.

Assistant Professors :

- M. Randall, *Chemistry*.
 C. W. Porter "
 G. E. Gibson "
 G. E. K. Branch, *Chemistry*.
 4 Instructors, 2 Research Associates,
 2 Teaching Fellows, 14 Assistants.

SCHOOL OF ARCHITECTURE.**Professor :**

- J. G. Howard, *Architecture*.

Associate Professor :

- W. C. Hays, *Architecture*.

Assistant Professors :

- W. C. Perry, *Architecture*.
 M. E. Cummings, *Modelling*.
 1 Lecturer, 1 Instructor.

SCHOOL OF JURISPRUDENCE.**Professors :**

- W. C. Jones, *Jurisprudence*.
 O. K. McMurray, *Law*.
 C. H. Lindley, *Law of Mines and Water*.
 A. M. Kidd, *Law*.
 E. Elliott, *International Law and Politics*.

Professors—Continued :

- M. C. Lynch, *Law*.
 A. T. Wright ,,
 M. Radin ,,
 G. H. Robinson, *Law*.
 9 Lecturers.

SCHOOL OF EDUCATION.

Professors :

- A. F. Lange, *Theory and Practice of Education*.
 R. G. Boone, *Education*.
 C. E. Rugh ,,
 W. W. Kemp, *School Administration*.

Professors—Continued :

- I. W. Howerth, *Education*.
 R. J. Leonard, *Vocational Education*.

Associate Professors :

- C. D. Mead, *Elementary Education*.
 J. V. Breitweiser, *Education*.
 C. L. Jacobs, *Industrial Education*.

Assistant Professors :

- W. S. Thomas, *Education and Examiner of Schools*.
 R. S. French, *Education*.
 1 Instructor, 2 Teaching Fellows.

Post-Graduate Courses in all the College and Schools.

Institutes and Museums :

1. California Museum of Vertebrate Zoology. *Director* : J. Grinnell, Ph.D.
2. Lick Observatory, Mt. Hamilton. *Director*: W. W. Campbell.
3. D. O. Mills Observatory, Santiago, Chile,
4. California School of Fine Arts, San Francisco.
5. Hastings College of the Law, San Francisco.
6. Medical School (3rd, 4th, and 5th years), San Francisco.
7. College of Dentistry, San Francisco.
8. California College of Pharmacy, San Francisco.
9. Museums of Anthropology, Archeology, and Art, San Francisco.
10. Los Angeles Medical Department (graduate instruction only), Southern Branch of the University, Los Angeles.
11. The University Farm School and college instruction and research in Agronomy, Animal Husbandry, Dairy Industry, Farm Mechanics, Olericulture, Poultry Husbandry, Pomology, Soils and Veterinary Science, Davis.
12. The Graduate School of Tropical Agriculture, Riverside.
13. The Scripps Institution for Biological Research, La Jolla.
14. The Summer School of Surveying, Swanton.

EXPERIMENT STATION, U.S. Department of Agriculture.

Director.—H. J. Webber.

BERNICE PANDHI BISHOP MUSEUM. See HONOLULU.

BETHLEHEM (Pennsylvania).

LEHIGH UNIVERSITY, Bethlehem, Pa. (1866.)

Terms: Two per year.

Students: 1050.

OFFICIALS.

President.—Henry S. Drinker, E.M., LL.D.

Vice-President.—N. M. Emery, M.A., Litt.D.

Secretary.—C. L. Thornburg, C.E., Ph.D.

Bursar.—F. M. Ashbough.

Registrar.—Raymond Walters, B.A., M.A.

Degrees conferred.—M.A., M.S., B.A., B.S., C.E., M.E., E.M., Ch.E., B.S. in Chem., E.E. and N.E. (Naval Engineer).

PROFESSORS.

ARTS AND SCIENCE.

Professors :

- C. L. Thornburg, *Mathematics and Astronomy*.
 W. C. Thayer, *English Language and Literature*.
 J. L. Stewart, *Economics and History*.

Professors—Continued :

- R. W. Blake, *Latin Language and Literature*.
 C. J. Goodwin, *Greek Language and Literature*.
 A. E. Meaker, *Mathematics*.
 P. A. Lambert, *Mathematics*.

Professors—Continued :

- P. M. Palmer, *German*.
 B. L. Miller, *Geology*.
 R. W. Hall, *Biology and Forestry*.
 P. Hughes, *Philosophy and Education*.
 C. S. Fox, *Romance Languages*.
 H. R. Reiter, *Physical Education*.
 H. M. Ullmann, *Chemistry*.
 J. H. Ogburn, *Mathematics and Astro-
 nomy*.
 B. MacNutt, *Physics*.
 M. J. Luch, *Rhetoric and Oratory*.

Associate Professor :

- V. S. Babasinian, *Organic Chemistry*.
 R. L. Charles, *Physics*.

Assistant Professors :

- J. E. Stocker, *Mathematics*.
 J. H. Wily, *Physics*.
 C. K. Meschter, *English*.
 J. B. Reynolds, *Mathematics*.
 R. P. More, *German*.
 H. M. Fry, *Physics*.
 R. Walters, *English*.
 J. M. Toohy, *Romance Languages*.
 E. Bowen, *Economics*.
 P. B. Fraim, *Physics*.
 M. S. Knebelmen, *Mathematics*.
 J. H. Bickley, *Accounting*.
 J. S. Long, *Inorganic Chemistry*.
 L. R. Drown, *Education*.
 H. G. Turner, *Geology*.
 P. S. Cobb, *Organic Chemistry*.

Post-Graduate Courses.—M.A. and M.Sc.

Library.—Lehigh University Library, 145,000 volumes. *Director* : Prof. J. L. Stewart.

ENGINEERING.

Professors :

- W. Esty, *Electrical Engineering*.
 J. W. Richards, *Metallurgy*.
 H. Eckfeldt, *Mining Engineering*.
 W. L. Wilson, *Railroad Engineering*.
 P. B. de Schweinitz, *Machine Design*.
 A. W. Klein, *Mechanical Engineering*.
 R. J. Fogg, *Civil Engineering*.
 F. V. Larkin, *Mechanical Engineering*.
 J. W. Lang, *Military Science and
 Tactics*.

Associate Professors :

- S. S. Scyfert, *Electrical Engineering*.
 A. A. Diefenderfer, *Assaying and
 Quantitative Analysis*.
 T. E. Butterfield, *Mechanical Engineer-
 ing*.
 L. B. Chapman, *Naval Architecture*.

Assistant Professors :

- G. A. Roush, *Metallurgy*.
 G. C. Beck, *Chemistry*.
 S. A. Becker, *Civil Engineering*.
 S. R. Schealer, *Electrical Engineering*.
 R. L. Bartlett, *Mining Engineering*.
 M. O. Fuller, *Civil Engineering*.
 D. S. Chamberlin, *Industrial Chemistry*.
 H. C. Payrow, *Civil Engineering*.
 J. L. Beaver, *Electrical Engineering*.
 H. D. Gruber, *Electrical Engineering*.
 2 Lecturers, 23 Instructors, and 5
 Assistant Instructors.

BHAVNAGAR (India).

SAMALDAS COLLEGE, Bhavnagar, Kathiawar, India. (1885.)

Terms : Two a year.

Students : 150.

Budget : College Budget: Annual Expenditure, Rs. 30,620.

OFFICIAL.

Principal.—K. J. Sanjana, M.A.

Degrees conferred.—As Bombay University.

PROFESSORS.

- K. J. Sanjana, *Mathematics*.
 J. J. Kania, *Sanskrit*.
 J. S. Gambhir, *Persian*.
 N. P. Dave, *Logic*.
 V. M. Mehta, *English*.

- T. K. Shahain, *Economics and English*.
 H. B. Bhide, *History and Sanskrit*.
 M. K. Kevalramain, *Mathematics*.
 1 Lecturer, 1 Fellow.

Library.—The College Library contains about 5,000 books. *Librarian* : V. T. Bhatt.

BIOLOGICAL LABORATORY, COLD SPRING HARBOUR.

See COLD SPRING HARBOUR.

BIOLOGICAL SOCIETY (America). *See* WASHINGTON.

BIRKBECK COLLEGE. *See* LONDON.

BIRMINGHAM.

THE UNIVERSITY OF BIRMINGHAM, Edmund Street, Birmingham, and University Road, Edgbaston. (1900.)

Terms : Three a year.

Students : 1,800.

Budget (1918-1919):

Income from all sources (excluding special Endowment Funds) about £73,000.

Expenditure about £70,000.

Balance applied in reduction of Debt, about £3,000.

OFFICIALS.

Chancellor.—The Rt. Hon. Lord Robert Cecil, K.C., M.P.

Vice-Chancellor.—Sir Gilbert Barling, Bt., C.B., C.B.E.

Treasurer.—Arthur Godlee.

Principal.—C. Grant Robertson, M.A., C.V.O.

Vice-Principal.—Sir William Ashley.

Secretary.—Geo. H. Morley.

Registrar.—John H. Costain.

Degrees conferred :

Degrees.

- | | |
|-------------|--|
| | <i>Hoods.</i> |
| B.Sc. | - Black silk or stuff edged with silver-grey watered silk. |
| M.Sc. | - Black silk lined with silver-grey watered silk. |
| D.Sc. | - Scarlet cloth lined with silver-grey watered silk. |
| B.A. | - Black silk or stuff edged with electric-blue watered silk. |
| M.A. | - Black silk lined with electric-blue watered silk. |
| D.Litt. | - Scarlet cloth lined with electric-blue watered silk. |
| D.Phil. | - Scarlet cloth lined with electric-blue watered silk. |
| B.Mus. | - Black silk or stuff edged with tang rine watered silk. |
| M.B., Ch.B. | - Black silk or stuff edged with cardinal watered silk. |
| Ch.M. | - Black silk lined with cardinal watered silk. |
| M.D.- | - Scarlet cloth lined with cardinal watered silk. |
| B.D.S. | - Black silk or stuff edged with dark red (grenat) watered silk. |
| M.D.S. | - Black silk lined with dark red (grenat) watered silk. |
| M.Mus. | - Black silk lined with tang rine watered silk. |
| B.Com. | - Black silk or stuff edged with terra cotta watered silk. |
| M.Com. | - Black silk lined with terra-cotta watered silk. |
| LL.D. | - Scarlet cloth lined with bronze-green watered silk. |

PROFESSORS.

SCIENCE.

Professors:

- G. N. Watson, *Mathematics*.
 S. W. J. Smith, *Physics*.
 G. T. Morgan, *Chemistry*.
 F. W. Gamble, *Zoology*.
 R. H. Yapp, *Botany*.
 W. S. Boulton, *Geology*. [ing.
 F. W. Burstall, *Mechanical Engineer*-
 F. C. Lea, *Civil Engineering*.
 W. Cramp, *Electrical Engineering*.
 (Vacant), *Brewing*.
 T. Turner, *Metallurgy*.
 Sir J. Cadman, *Mining*.

Lecturers :

- C. T. Preece, *Mathematics*.
 W. N. Bailey, "
 R. Colomb (Miss) "
 H. C. Kent "
 G. A. Shakespear, *Physics*.
 G. Barlow "

Lecturers—Continued :

- H. B. Keene, *Physics*.
 T. L. Ibbs, "
 J. E. Coates, *Chemistry*.
 F. Challenger, "
 W. Wardlaw, "
 S. R. Carter, "
 C. E. Wood, "
 S. D. Nicholas, "
 E. Jones (Miss) "
 L. M. Stewart, "
 A. E. Goddard, "
 S. A. Pearson, "
 H. G. Jackson, *Zoology*.
 E. Foulds (Miss) "
 E. A. N. Twigg (Miss), *Zoology*.
 C. L. Boulenger, *Agricultural Zoology*.
 J. Bayliss-Elliott (Mrs.), *Botany*.
 L. J. Wills, *Geology*.
 F. Raw "
 R. C. Porter, *Mechanical Engineering*.

Lecturers—Continued:

- S. J. Ellis, *Mechanical Engineering.*
 F. H. Boden " "
 J. Cook " "
 (*Machine Design.*)
 W. N. Thomas, *Civil Engineering.*
 R. E. Stradling " "
 F. K. Crowther " "
 H. W. Coultas " "
 W. Haywood, *Town Planning.*
 E. J. Kipps, *Electrical Engineering.*
 A. H. Barratt " "
 F. K. Crowther " "
 R. H. Hopkins, *Brewing.*
 A. J. Field, *Metallurgy.*
 D. H. Ingall " "
 H. Harris " "
 W. Hulse, *Mining.*
 C. H. Pitt " "
 E. C. Scott " "

ARTS.

Professors :

- J. O. Thomson, *Latin.*
 E. de Selincourt (Dean), *English.*
 R. L. G. Ritchie, *French.*
 F. E. Sandbach, *German.*
 J. H. Muirhead, *Mental and Moral
 Philosophy.*
 C. R. Beazley, *History.*
 C. W. Valentine, *Education.*
 Conrad Gill " "
 M. Phillips (Miss) " "
 G. Bantock, *Music.*

Lecturers :

- C. D. Chambers, *Latin.*
 Drummond (Miss), *Classics.*
 Rev. G. L. Marriott, *Greek.*
 M. Macmillan, *English.*
 G. Hislop " "
 F. P. Wilson " "
 P. Demey, *French.*
 J. J. Milne (Miss), *French.*
 S. Dupau (Mdle.) " "
 D. Evans, *German.*
 L. M. Strachan, *German.*
 F. de Arteaga, *Spanish and Italian.*
 L. Segal, *Russian.*
 J. W. Harvey, *Mental and Moral
 Philosophy.*
 F. C. Hood, *History.*
 D. Sutcliffe (Miss), *History.*
 F. M. Ritchie (Miss), *Education.*

MEDICINE.

Professors :

- P. Thompson, *Anatomy.*
 E. W. W. Carlier, *Physiology.*
 J. W. Russell, *Medicine.*
 O. J. Kauffmann " "
 C. A. Leedham-Green, *Surgery.*

Professors—Continued :

- L. P. Gamgee, *Surgery.*
 J. S. Dunn, *Pathology.*
 J. Robertson, *Hygiene and Public
 Health.*
 J. D. Stanley, *Therapeutics.*
 T. Wilson, *Midwifery.*
 J. T. J. Morrison, *Forensic Medicine
 and Toxicology.*

Assistant Professor :

- J. C. Brash, *Anatomy.*

Lecturers :

- W. F. Haslam (Dean), *Anatomy.*
 B. T. Rose, *Anatomy.*
 O. Elgood-Turner (Mrs.), *Anatomy.*
 B. G. Goodwin, *Anatomy.*
 W. E. Bennett " "
 H. Walker (Miss), *Physiology.*
 L. Ball, *Medicine.*
 S. Barling, *Surgery.*
 D. M. Hunter, *Pathology.*
 C. J. Lewis, " "
 G. A. Auden, *Hygiene and Public
 Health.*
 L. G. Parsons, *Infant Hygiene and
 Diseases peculiar to Children.*
 J. C. Kneale, *Materia Medica.*
 F. R. Greenwood " "
 W. A. Potts, *Therapeutics.*
 J. T. Hewetson, *Midwifery.*
 C. E. Purslow " "
 G. Walker, *Forensic Medicine and
 Toxicology.*
 P. T. Hughes, *Mental Diseases.*
 G. Heaton, *Operative Surgery.*
 J. J. Evans, *Ophthalmology.*
 J. T. Hewetson, *Curator of Pathologi-
 cal Museum.*
 A. W. Nuthall, *Curator of Pathological
 Museum.*
 W. T. Madin, *Dental Surgery.*
 H. F. Humphreys, *Dental Anatomy.*
 A. E. Donagan, *Dental Mechanics.*
 A. W. Wellings, *Dental Histology and
 Pathology.*
 L. Ball, *Medicine for Dental Students.*
 A. Lucas, *Surgery* " " "
 G. F. Cale-Matthews, *Orthodontics.*

COMMERCE.

Professors :

- Sir W. Ashley, *Commerce.*
 C. E. Martineau, *Accounting.*
 F. Tillyard, *Commercial Law.*

Assistant Professor :

- J. G. Smith, *Commerce.*

Lecturer :

- T. S. Ashton, *Organizing Tutor in
 Economics and Political Science.*
 P. Barrett Whale, *Economics.*

Post-Graduate Courses.—In all faculties Courses are provided in preparation for the Higher Degrees of Master and Doctor.

Institutes and Museums.—There are Museums in Zoology, Botany, Geology, Anatomy, and Pathology.

Associated with the University is an Institute of Helminthology.

Libraries.—An annual grant of about £800 is expended on books and binding in the Libraries in Edmund Street and at Edgbaston. *Librarian*: (with Assistants) W. H. Cope.

AFFILIATED INSTITUTIONS.

The Birmingham and Midland Institute, Birmingham.

With the Faculty of Arts is closely associated Lichfield and Handsworth Theological Colleges.

BLACKSBURG (Virginia).

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—A. W. Drinkard, jr.

BLOEMFONTEIN (O.F.S.).

GREY UNIVERSITY COLLEGE. No particulars received.

BLOOMINGTON (Indiana).

INDIANA UNIVERSITY, Indiana. (1820.)

Terms: Two semesters and Summer Session.

Students: 3,210.

OFFICIALS.

President.—William L. Bryan, Ph.D., LL.D.

Dean of the College of Liberal Arts.—H. A. Hoffman, A.M.

Dean of the School of Law.—E. G. Hogate, A.M., LL.D.

Dean of the Graduate School.—C. H. Eigenmann, Ph.D.

Dean of the School of Medicine (Indianapolis).—C. P. Emerson, A.B., M.D.

Dean of the School of Education.—H. L. Smith, Ph.D.

Dean of Women.—Ruby E. C. Mason, A.M.

Registrar and Secretary of the University.—J. W. Cravens, A.B.

Bursar.—U. Howe Smith, A.B.

Degrees conferred.—A.B., B.S., LL.B., A.M., M.D., Ph.D.

PROFESSORS.

COLLEGE OF LIBERAL ARTS.

Professors:

Rev. A. Atwater, *Latin*.

H. A. Hoffman, *Greek*.

J. A. Woodburn, *American History*.

C. H. Eigenmann, *Zoology*.

R. E. Lyons, *Chemistry*.

A. L. Foley, *Physics*.

C. M. Mottier, *Botany*. [*Sociology*.

U. G. Weatherly, *Economics and*

B. D. Myers, *Anatomy*.

S. B. Harding, *European History*.

A. S. Hershey, *Political Science and International Law*.

B. J. Vos, *German*.

W. A. Rawles, *Political Economy*.

C. W. F. Osthaus, *German*.

S. C. Davisson, *Mathematics*.

D. A. Rothrock, *Mathematics*.

W. J. Moenkhaus, *Physiology*.

L. S. Davis, *Chemistry*.

A. M. Brooks, *Fine Arts*.

W. D. Howe, *English*.

W. F. Book, *Educational Psychology*.

C. J. Sember, *English*.

Professors—Continued:

E. R. Cumings, *Geology*.

S. E. Stout, *Latin*.

W. B. Elkin, *Philosophy*.

J. W. Piercy, *Journalism*.

E. O. Stiehni, *Physical Education*.

W. E. Jenkins, *General Literature*.

J. A. Williams, *Psychology*. [*Tactics*.

A. T. Dalton, *Military Science and*

P. L. Haworth, *History*.

J. Maxwell (Miss), *Physical Education*.

Associate Professors:

G. D. Morris, *French*.

F. W. Tilden, *Greek*.

G. H. Stempel, *Comparative Philology*.

C. A. Mosemiller, *Romance Languages*.

R. R. Ramsey, *Physics*.

O. W. Brown, *Chemistry*.

F. M. Andrews, *Botany*.

L. G. Berry, *Latin*.

H. T. Stephenson, *English*.

W. A. Cogshall, *Astronomy*.

U. S. Hanna, *Mathematics*.

J. W. Beede, *Geology*.

C. D. Campbell, *Music*.

Assistant Professors :

- F. G. Bates, *Political Science*.
 F. C. Mathers, *Chemistry*.
 C. E. May, *Chemistry*.
 F. Payne, *Zoology*.
 M. T. Wellman (Miss), *Home Economics*.
 E. G. Henry (Miss), *Social Service* (at Indianapolis).
 E. G. Frazier, *Public Speaking*.
 J. B. Cutcher, *Physics*.
 J. Hill, *Spanish*.
 G. F. Reynolds, *English*.
 P. E. Barra, *German*.
 W. N. Logan, *Geology*.
 G. G. Greever, *English*.
 J. A. Badertsher, *Anatomy*.
 J. B. Phillips, *Economics and Sociology*.
 J. M. Van Hook, *Botany*.
 E. H. Biermann, *German*.
 J. Conklin (Miss), *French*.
 W. Scott, *Zoology*.
 R. E. Burke, *Fine Arts*.
 E. Sage (Miss), *Home Economics*.
 A. L. Kohlmeier, *History*.
 K. P. Williams, *Mathematics*.
 J. G. McDonald, *History*.
 J. A. Wright, *Journalism*.
 A. D. Goss (Mrs.), *German*.
 J. A. Hess, *German*.
 F. C. Senour, *English*.
 C. B. Hennel (Miss), *Mathematics*.
 N. Treat (Miss), *Home Economics*.
 C. McK. Evans, *Physical Education*.

Assistant Professors—Continued :

- L. Roark, *Geology*.
 E. M. Linton, *Political Science*.
 R. E. C. Mason (Miss), (Lecturer), *English*.
 U. H. Smith (Lecturer), *Accounting and Business Practice*.
 51 Instructors.

SCHOOL OF EDUCATION.

Professors :

- H. L. Smith, *School Administration*.
 W. W. Black, *Elementary Education*.
 W. F. Book, *Educational Psychology*.
 E. A. Lee, *Vocational Education*.

Associate Professors :

- H. G. Childs, *Education*.
 M. T. Weman (Miss), *Home Economics*.
 D. J. MacDonald, *Vocational Education*.
 8 Instructors and 5 Critics Teachers.

THE SCHOOL OF LAW.

Professors :

- E. G. Hogate, *Law*.
 C. McG. Hepburn, *Law*.
 J. J. M. La Follette, *Law*.
 M. C. Campbell, *Law*.
 W. A. Seavey, *Law*.
 J. L. Parks, *Law*.
 S. Rowley, *Law*.

Post-Graduate Courses.—The Graduate School at Indiana University was organised in 1904. Courses are given in Anatomy, Astronomy, Botany, Chemistry, Comparative Philology, Economics and Sociology, English, Fine Arts, Geology, German, Greek, History, Home Economics, Philosophy, Journalism, Latin, Mathematics, Physics, Physiology, Political Science, Romance Languages, Social Service, and Zoology.

Libraries.—*Librarian* : W. E. Jenkins, A.M. *Assistant Librarian* : Miss L. Maxwell, A.B. *Reference Librarian* : Miss M. Dunham.

The library of Indiana University at present contains 121,718 volumes, and is growing at the rate of about 6,000 volumes a year.

In addition to the central library, where the general literary and historical collections are housed, there are nine departmental collections of varying sizes, kept in the different University buildings.

The Library of the School of Law contains about 12,500 volumes.

BOMBAY (India).

UNIVERSITY OF BOMBAY, Mayo Road, Fort, Bombay. (1857.)

Terms : Two a year.

Students : 7,831.

OFFICIALS.

Chancellor.—The Hon. Sir G. A. Lloyd, G.C.I.E., D.S.O.

Vice-Chancellor.—Sir C. H. Setalvad, Kt., B.A., LL.B.

Dean in Arts.—Sir N. G. Chandavarkar, Kt., B.A., LL.B.

Dean in Law.—The Hon. Mr. Justice A. M. Kajiji, B.A., LL.B.

Dean in Medicine.—Dr. S. K. Nariman, M.D.

Dean in Science.—Dr. N. A. F. Moos, D.Sc., L.C.E., F.R.S.E.

Registrar.—Khan B. F. M. Dastur, M.A.

Degrees conferred :

<i>Degrees.</i>	<i>Hoods.</i>
B.A. - - -	Black silk, bound with garter blue silk, 1 inch wide.
M.A. - - -	Garter blue silk, lined with same.
B.Com. - - -	Black silk, bound with violet silk, 1 inch wide.
B.Sc. - - -	Black silk, bound with yellow silk, 1 inch wide.
M.Sc. - - -	Black silk, lined with yellow silk.
B.Ag. - - -	Black silk, bound with green silk, 1 inch wide.
M.Ag. - - -	Black silk, lined with green silk.
B.E. - - -	Black silk, bound with brown silk, 1 inch wide.
M.C.E. - - -	Brown silk, lined garter blue.
LL.B. - - -	Black silk, with scarlet cloth band inside, 2 inches wide.
LL.M. - - -	Scarlet cloth, lined with scarlet silk.
L.M. and S. -	Black silk, bound with crimson silk, 1 inch wide.
M.B.B.S. - -	Black silk, lined with crimson silk.
B.Hy. - - -	Black silk, lined with white silk, 1 inch wide.
D.Hy. - - -	Crimson silk, lined with white silk.
M.D. and M.S. -	Crimson silk, lined garter blue.
Hon. LL.D.-	Scarlet silk, lined with white silk.

PROFESSOR.—Patrick Geddes, *Sociology*.

UNIVERSITY LECTURERS.

P. Anstey, <i>The Sociological Basis of Economics.</i>	L. Peltier, <i>Sixteenth-Century French Literature.</i>
S. A. Surfraz, <i>Hadiqa of Sanai.</i>	

INTER-COLLEGIATE LECTURERS.

ELPHINSTONE COLLEGE.

- A. C. L. Wilkinson, *Elliptic Functions*.
 A. C. Farran, *Politics*.
 S. A. Surfraz, *Rouzatus Safa, Life of Mohammed*.
 J. C. P. D'Andrade, *Spinoza, Leibnitz, Hegel, and Ethics*.

WILSON COLLEGE.

- E. A. Parker, *Chaucer, Langland and Middle English*.
 Rev. Dr. R. Scott, *Shakespeare and Milton*.
 H. D. Velankar, *Rigveda and Dharma-shastra*.
 P. V. Kulkarni, *Yaska's Nirukta*.
 Rev. J. McKenzie, *History of Ethics*.
 Rev. J. R. Cuthbert, *History of Greek Philosophy*.
 P. A. Wadia, *History of Greek Philosophy from Thales to Plato*.

Library.—The Bombay University Library. Librarian : S. N. Pherwani, M.A.

ST. XAVIER'S COLLEGE.

- Rev. R. Zimmermann, *Rigveda, History of Vedic Literature, Paleography and Comparative Philology*.
 N. K. Bhagvat, *Pali*.
 L. G. Khare, *French Language and Literature*.
 M. W. Dawson, *Latin (Cicero and Lucretius)*.
 F. B. Vachha, *Psychology*.

SYDENHAM COLLEGE.

- H. L. Kaji, *English Economic History*.
 A. R. Burnett-Hurst, *Indian Economic History*.
 V. G. Dalvi, *Indian Economics*.
 P. Anstey, *History of Economic Doctrines*.
 M. L. Taunan, *Currency, Banking, and Public Finance*.

AFFILIATED INSTITUTIONS.

Elphinstone College, Bombay.	Bahuddin College, Junagadh.
Deccan College, Poona.	New Poona College.
Wilson College, Bombay.	Karnatak College, Dharwar.
St. Xavier's College, Bombay.	Sarvajanic College, Surat.
Gujarat College and Madhavlal Ranchhodlal Science Institute.	Willingdon College, Sangli.
Rajaram College, Kolhapur.	Sydenham College of Commerce and Economics, Bombay.
Baroda College.	Poona Agricultural College.
Fergusson College, Poona.	College of Engineering, Poona.
Samaldas College, Bhavnagar.	Government Law School, Bombay.
Dayaram Jethmal Sind College.	Grant Medical College, Bombay.

BOMBAY AND ALIBAG OBSERVATORIES, Bombay, India. (1846.)*Director.*—(Vacant.)

At the Colaba Observatory, Bombay, continuous meteorological and seismological records are maintained. Chronometers belonging to the Admiralty and Royal Indian Marine are stored and rated. The Observatory is also responsible for the Time Ball Service at Bombay Harbour.

A magnetic Observatory is situated at Alibag, 20 miles south of Bombay, where absolute measurements and continuous records are made of the magnetic elements. The magnetic work was transferred from Colaba to Alibag in 1906 before the introduction of electric traction into Bombay.

Meteorological and magnetic readings date from 1846 and seismological from 1898. Results are discussed and published in five-yearly volumes.

BOMBAY BACTERIOLOGICAL LABORATORY, Parel, Bombay.*Director.*—

Lieut.-Col. W. G. Liston, J.P., C.I.E., M.D., D.P.H., I.M.S.
(Acting) Major J. C. G. Kunhardt.

Assistants to the Director.—

Major T. H. Gloster; Major W. D. H. Stevenson.
(Officiating) D. A. Turkhud; S. N. Gore.

BOSTON (Massachusetts).**BOSTON UNIVERSITY, Boston, Mass. (1869.)**

Terms : Two a year and a Summer Session. *Students* : 5,666.
Budget : Proposed Budget, \$713,271 for 1919-1920.

OFFICIALS.

President.—L. H. Murlin, LL.D.*Treasurer.*—Silas Peirce.*Dean of the College of Liberal Arts.*—W. M. Warren, Ph.D.*Director of the Summer Session.*—A. H. Rice, Ph.D.*Dean of the College of Business Administration.*—E. W. Lord, A.M.*Dean of the School of Theology.*—L. J. Birney, S.T.D.*Director of the Department of Religious Education.*—W. S. Athearn.*Dean of the School of Law.*—H. Albers, A.M., LL.B.*Dean of the School of Medicine.*—J. P. Sutherland, M.D.*Director of the College of Secretarial Science.*—T. L. Davis.*School of Education.*—A. H. Wilde.*Department of Religious Education and Social Service.*—

Degrees conferred.—A.B., S.B., B.B.A., B.B.A. cum laude, M.B.A., B.E., M.R.E., S.T.B., LL.B., LL.B. cum laude, LL.B. magna cum laude, LL.M., M.B., M.D., A.M., Ph.D., B.B.S.

PROFESSORS.

COLLEGE OF LIBERAL ARTS.**Professors :**

W. C. Aurelio, *Greek, German.*
A. K. Black (Miss), *Elocution.*
E. C. Black, *English Literature.*
E. H. Brightman, *Philosophy.*
R. E. Bruce, *Mathematics.*
D. Cameron, *Latin.*
F. A. Cleveland, *U.S. Citizenship.*
J. B. Coit, *Astronomy.*
J. Geddes, *Romance Languages.*
N. A. Kent, *Physics.*
J. P. Marshall, *Music.*
L. C. Nowell, *Chemistry.*
M. L. Perrin, *German.*

Professors—Continued :

A. H. Rice, *Latin.*
D. L. Sharp, *English.*
J. R. Taylor, *Greek.*
W. M. Warren, *Philosophy.*
A. W. Weyssse, *Biology.*
A. H. Wilde, *Education.*
E. C. Wilm, *Philosophy.*

Assistant Professors :

E. A. Aldrich, *History.*
W. O. Ault, *History.*
C. P. Huse, *Economics.*
A. M. Waxman, *Romance Languages.*
19 Instructors, Lecturers, and Assistants.

**COLLEGE OF BUSINESS
ADMINISTRATION.**

Professors :

- H. B. Center, *Journalism.*
- Roy Davis, *English.*
- C. P. Huse, *Economics.*
- H. L. Perrin, *Law.*
- C. F. Rittenhouse, *Accounting.*
- F. L. Simpson, *Law.*
- H. R. Tosdal, *Economics and Finance.*
- H. Whitehead, *Salcsmanship.*

Associate Professors :

- C. E. Bellatty, *Advertising.*
- W. J. McCarty, *Accounting.*

Assistant Professors :

- S. Cornejo, *Spanish.*
- D. Crawford, *English.*
- W. J. Goggin, *Accounting.*
- R. H. Loomis, *Economics.*
- L. D. O'Neil, *Spanish.*
- A. L. Percy, *Accounting.*
- J. C. Scammell, *English.*

33 Instructors, 2 Lecturers, and 6 Assistants.

SCHOOL OF LAW.

Professors :

- H. Albers, *Law.*
 - M. M. Bigelow, *Law.*
 - H. M. Bowman, „
 - J. P. Crosby, „
 - F. L. Simpson, „
 - C. M. Wood, „
- 18 Lecturers, 6 Instructors.

SCHOOL OF THEOLOGY.

Professors :

- J. M. Barker, *Sociology.*
- M. D. Buell, *New Testament.*
- G. C. Cell, *Church History.*
- A. Gillies, *Homiletics.*
- E. J. Helms, *Evangelism.*
- A. C. Knudson, *Old Testament.*
- W. J. Lowstuter, *New Testament.*
- C. E. Neil, *Public Speaking.*
- H. C. Sheldon, *Systematics.*
- D. D. Vaughn, *Social Service.*

Assistant Professors :

- L. J. Birney, *Practical Theology.*
 - H. R. Harper, *Old Testament.*
- 1 Instructor, 3 Lecturers, 1 Assistant.

SCHOOL OF MEDICINE.

Professors :

- E. E. Allen, *Anatomy.*
- J. L. Ames, *Theory and Practice of Medicine.*
- F. P. Batchelor, *Physiology.*
- H. P. Bellows, *Otology.*
- J. E. Briggs, *Surgery.*
- R. G. Browne, *Diseases of the Chest.*
- G. H. Earl, *Obstetrics.*

Professors—Continued :

- A. G. Howard, *Orthopedic Surgery.*
- W. T. Lee, *Diseases of the Skin.*
- E. N. Libby, *Practice of Medicinc.*
- E. M. Jordan, *Diseases of the Nervous System.*
- J. H. Moore, *Diseases of Children.*
- N. E. Paine, *Mental Diseases.*
- F. W. Patch, *Materia Medica.*
- G. B. Rice, *Diseases of the Nose and Throat.*
- A. W. Rowe, *Chemistry.*
- G. R. Southwick, *Gynecology.*
- J. P. Sutherland, *Theory and Practice*
- W. H. Watters, *Pathology.*
- D. W. Wells, *Ophthalmology.*
- W. F. Wesselhoft, *Clinical Surgery.*
- A. W. Weysee, *Experimental Physiol-ogy.*
- F. G. Wheatley, *Pharmacology.*
- D. G. Wilcox, *Clinical Gynecology.*
- N. W. Wood, *Clinical Medicine.*

Associate Professors :

- E. S. Calderwood, *Anatomy.*
- F. W. Colburn, *Otology.*
- S. C. Fuller, *Neuropathology.*
- F. W. Halsey, *Diseases of the Rectum.*
- F. E. Haskins, *Pharmacology.*
- A. W. Horr, *Ophthalmology.*
- N. H. Houghton, *Diseases of the Nose and Throat.*
- C. T. Howard, *Clinical Surgery.*
- H. M. Fellock, *Hospital Adm. and Organiz.*
- E. P. Ruggles, *Obstetrics.*
- H. O. Spalding, *Mental Diseases.*

Assistant Professors :

- T. J. O'Brien, *Clinical Medicinc.*
 - C. Phipps, *Clinical Medicine.*
- 15 Instructors, 25 Lecturers.

SCHOOL OF EDUCATION.

Professor :

- A. H. Wilde, *Education.*

Assistant Professor :

- E. M. Chamberlain, *Education.*
- 6 Instructors, 3 Lecturers.

**COLLEGE OF SECRETARIAL
SCIENCE.**

Professors :

- C. P. Huse, *Economics.*
- R. E. Bruce, *Mathematics.*
- Roy Davis, *Business English.*

Associate Professor :

- W. J. McCarty, *Accounting.*

Assistant Professors :

- W. O. Ault, *History.*
 - S. Cornejo, *Spanish.*
- 10 Instructors, 4 Lecturers, 2 Assistants.

DEPARTMENT OF RELIGIOUS EDUCATION AND SOCIAL SERVICE.

Professors :

- W. S. Athearn, *Religious Education*.
 A. E. Bennett, *Educational Psychology*.
 A. Munkros, *Elementary Education*.
 A. M. Robertson (Miss), *Vocational Guidance and Women's Work*.
 C. E. Carroll, *Social Science*.
 H. A. Smith, *Music*.
 F. Strickland, *History and Psychology of Religion*.
 O. W. Warmingham, *Bible*.

Special Professors :

- J. L. Alexander, *Adolescent Education*.
 T. N. Carver, *Rural Sociology*.
 E. M. Chamberlain, *Psychology, Agriculture, and Rural Education*.

Assistant Professors :

- F. W. Clelland, *English Bible*.
 C. W. Coburn, *Rural Leadership and Psychology*. [Work]
 M. W. Eggleston (Mrs.), *Young People's*
 H. A. Reid, *Principal* (Evening School).
 5 Instructors, 8 Assistants.

SUMMER SESSION.

Professors :

- E. C. Black, *English*.
 H. B. Center, *Navigation, Business*
 S. Cornejo, *Spanish*. [English]
 C. G. Hamilton, *Piano*.
 N. A. Kent, *Physics*.
 J. P. Marshall, *Music*.
 L. C. Newell, *Chemistry*.
 A. H. Rice, *Latin*.
 C. F. Rittenhouse, *Accounting*.
 J. R. Taylor, *Drama*.
 A. W. Weyse, *Biology*.
 E. C. Wilm, *Philosophy*.

Post-Graduate Courses leading to Ph.D., and A.M. degrees.

Libraries.—

- Library of College of Liberal Arts, 18,000 volumes.
 Library of College of Business Administration, 4,300 volumes.
 Library of School of Law, 16,000 volumes.
 Library of School of Medicine, 6,000 volumes.
 Library of School of Theology, 15,000 volumes.
 Library of School of Education, 150 volumes.
 Library of Religious Education and Social Services, 2,500 volumes.

Librarians : Miss M. Barnum, R. Power.

Learned Societies.—

Phi Beta Kappa, founded at the College of William and Mary, in 1776, is an honorary society in which membership is conferred for high scholarship. Massachusetts Epsilon Chapter at Boston University received its charter in 1898. Each year a few Seniors maintaining high rank throughout their Course are elected to membership. College of Liberal Arts.

The Boston University Chapter of the honour society, Delta Mu Delta, elects to membership each year from the graduates of highest scholastic standing, not more than one-fifth of the graduating class; and, in addition, may elect not more than three members of the Junior class, selecting the members whose standing is the highest. College of Business Administration.

Associate Professors :

Roy Davis, *English*.

Assistant Professors :

- E. A. Aldrich, *History*.
 C. P. Ruse, *Economics*.
 S. M. Waxman, *French, Spanish*.
 7 Instructors, 2 Assistants, 9 Lecturers.

GRADUATE SCHOOL.

Professors :

- E. E. Allen, *Anatomy*.
 W. S. Athearn, *Religious Education*.
 F. P. Batchelder, *Physiology*.
 M. M. Bigelow, *Law*.
 E. C. Black, *English Literature*.
 H. M. Bowman, *Law*.
 E. S. Brightman, *Philosophy*.
 R. E. Bruce, *Mathematics*.
 M. D. Buell, *New Testament Greek*.
 G. C. Cell, *Historical Theology*.
 J. B. Coit, *Astronomy*.
 J. Geddes, *Romance Languages*.
 N. A. Kent, *Physics*.
 A. C. Knudson, *Old Testament Exegesis*.
 W. J. Lowstuter, *New Testament Literature*.
 J. P. Marshall, *History and Theory of*
 L. C. Newell, *Chemistry*. [Music]
 M. L. Perrin, *Germanic Language and*
 A. H. Rice, *Latin*. [Sanskrit]
 A. W. Rowe, *Chemistry*.
 D. L. Sharp, *English*.
 H. C. Sheldon, *Systematic Theology*.
 F. L. Simpson, *Law*.
 J. R. Taylor, *Greek*.
 W. F. Warren, *Religious*.
 W. H. Watters, *Pathology*.
 A. H. Wilde, *Education and School Administrator*.
 E. C. Wilm, *Philosophy*.

AFFILIATED INSTITUTIONS.

Morgan Memorial, Boston.

Deaconess Training School, Brookline, Mass.

BUSSEY INSTITUTION, Forest Mills, Boston, Mass. (1871.)
The Graduate School of Applied Biology of Harvard University.

Terms: Open throughout the year.

OFFICIALS.

President.—Abbott Lawrence Lowell, LL.B., LL.D., Ph.D.

Dean.—William Morton Wheeler, Ph.D., S.D.

Secretary.—Irving Widner Bailey, A.B., M.F.

Degrees conferred.—S.D., S.M., M.F.

PROFESSORS.

Professors :

W. M. Wheeler, *Economic Entomology.*

G. H. Parker, *Zoology.*

D. E. Castle, *Zoology.*

W. J. V. Osterhout, *Botany.*

E. E. Tyzzer, *Comparative Pathology.*

E. M. East, *Plant Morphology.*

Assistant Professors :

J. G. Jack, *Dendrology.*

O. Ames, *Botany.*

R. Thornton Fisher, *Forestry.*

I. W. Bailey, *Forestry.*

C. T. Brues, *Economic Entomology.*

MASSACHUSETTS INSTITUTE OF TECHNOLOGY. No particulars received.

THE CARNEGIE INSTITUTION NUTRITION LABORATORY, Boston, Mass. (1907.)

Director.—Francis G. Benedict.

Investigative staff of 24 members.

Studies of the metabolism of normal individuals and of diabetics, and many other researches connected with metabolism.

BOTANICAL SURVEY OF INDIA. See SIMLA.

BOULDER (Colorado).

UNIVERSITY OF COLORADO. No particulars received.

BOZEMAN (Montana).

EXPERIMENT STATION, U.S. Department of Agriculture.

Director.—F. B. Tinfield.

BRANDON (Manitoba).

BRANDON COLLEGE, Brandon, Manitoba, Canada. (1899.)

Terms: Three per year—12 weeks each. Arts and Theological Departments, two terms.

Students: 321.

OFFICIALS.

President.—Howard P. Whidden, B.A., D.D., LL.D.

Dean.—Harris L. MacNeill, B.A., Ph.D.

Registrar.—Samuel J. McKee, B.A., LL.D.

Bursar.—B. T. Morse.

Degrees conferred.—B.A. and M.A.

Hoods as McMaster University, Toronto.

PROFESSORS.

FACULTY OF ARTS AND SCIENCE.

S. J. McKee, *Philosophy.*

O. A. C. Wilkins (Mrs.), *English and*

C. W. New, *History.* [German.]

J. R. C. Evans, *Science.*

P. Louys, *French.*

Faculty of Arts and Science—Continued :

C. H. Lager, *Swedish and Hebrew.*

T. R. Wilkins, *Mathematics and*
Physics.

J. Fraser (Miss), *English.*

J. Turnbull (Miss), *French.*

FACULTY OF THEOLOGY.

- H. P. Whidden, *Christian Theology and Ethics.*
 H. L. MacNeill, *New Testament and Classics.*
 J. A. Gordon, *Homiletics and Pastoral Administration.*
 G. T. Webb, *Religious Education.*

ACADEMIC AND BUSINESS.

- W. A. Mackintosh, *Political Economy.*
 B. T. Morse, *Business.*

Academic and Business—Continued :

- A. E. Wright (Mrs.), *Academic and Business.* [Shorthand
 J. Taylor (Miss), *Stenography and*
 R. L. Allen, *Academic.*

MUSIC.

- W. L. Wright, *Piano and Theory.*
 G. M. Newbury (Miss), *Expression and Physical Culture.*
 M. Wilson (Miss), *Vocal.*
 H. Venn (Miss), *Piano.*
 E. Gerrard (Miss), *Piano.*

BRISBANE (Queensland).

UNIVERSITY OF QUEENSLAND, Brisbane, Queensland. (1909.)

Terms : Three per year.

OFFICIALS.

Chancellor.—The Hon. Sir Pope Alexander Cooper, K.C.M.G., M.A.
Vice-Chancellor.—The Hon. A. J. Thynne, M.L.C.
Registrar and Librarian.—F. W. S. Cumbric-Stewart, B.A., B.C.L.

Degrees conferred :

<i>Degrees.</i>	<i>Hoods.</i>
B.A. - -	Pure white silk edged with silk cord.
M.A. - -	Dark maroon silk.
B.Sc. - -	Blue silk edged with yellow silk cord.
M.Sc. - -	Black silk lined with yellow silk.
D.Sc. - -	
B.E. - -	Light maroon silk edged with black silk cord.
M.E. - -	Yellow silk edged with black silk cord.
LL.B. - -	Light blue silk edged with black silk cord.
LL.D. - -	
M.B. - -	Black silk edged with red silk cord.
B.S. - -	Black silk edged with red silk cord.
M.D. - -	

PROFESSORS.

Professors :

- B. D. Steele, *Chemistry.*
 H. G. Denham, *Chemistry.*
 J. L. Michie, *Classics.*
 A. J. Gibson, *Engineering.*
 R. W. H. Hawken, *Engineering.*
 H. J. Priestley, *Mathematics and Physics.*

Lecturers :

- L. S. Bagster, *Applied Chemistry.*
 T. H. Johnston, *Biology.*
 C. D. Gillies, *Biology.*
 H. G. Denham, *Chemistry.*
 T. G. H. Jones, *Chemistry.*
 R. W. H. Hawken, *Civil Engineering.*
 R. J. Cholmeley, *Classics.*
 S. Castlehow, *Classics.*
 T. C. Witherby, *Economics.*
 P. L. Weston, *Electrical Engineering.*
 J. J. Stable, *English, French, and German.*
 H. F. Parnell, *English, French, and German.*

Lecturers—Continued :

- A. K. Gray, *English, French, and German.*
 H. M. McCulloch, *English, French, and German.*
 C. Schindler, *French (evening).*
 H. Alcock, *History and Economics.*
 A. C. V. Melbourne, *History and Industrial History.*
 H. C. Richards, *Geology and Mineralogy.*
 A. B. Walkom, *Geology and Mineralogy.*
 G. E. Mayo, *Logic, Ethics, and Psychology.*
 P. A. Seymour, *Logic, Psychology, and Education.*
 H. J. Priest, *Mathematics.*
 T. Parnell, *Physics.*
 S. G. Lusby, *Physics.*
 K. F. Swanwick, *Mathematics.*
 J. P. McCarthy, *Mathematics.*
 6 Hon. Lecturers, 6 Demonstrators.

QUEENSLAND MUSEUM, Brisbane, Queensland. (1855.)

Director.—Heber A. Longman.

15 Assistants.

The Queensland Museum is a Government Institution, financed by an annual grant. The Museum is mainly devoted to Natural History, but also contains important ethnological collections from Papua.

Library of 15,000 volumes.

Publications.—

Annals, up to 1911, ten volumes published.

Memoirs, six volumes published.

ROYAL SOCIETY OF QUEENSLAND. No particulars received.

BRISTOL.

UNIVERSITY OF BRISTOL, Tyndall's Park, Bristol. (1909.)

Terms: Three a year.

Students:

Budget (1917-18):

Income	..	..	..	..	£22,856	1	7
Expenditure	..	..	..	..	24,867	7	5

OFFICIALS.

Chancellor.—The Rt. Hon. The Viscount Haldane of Cloan, O.M., K.T., D.C.L. LL.D., F.R.S.

Pro-Chancellors.—

The Rt. Hon. Lewis Fry, LL.D.

George A. Wills, LL.D.

The Rt. Hon. Henry Hobhouse, LL.D.

H. H. Wells, J.P.

Vice-Chancellor.—Sir Isambard Owen, D.C.L., M.D.

Pro-Vice-Chancellor.—Professor C. Lloyd Morgan, D.Sc., LL.D., F.R.S.

Treasurer.—Stanley H. Badock, J.P.

Registrar.—James Rafter, M.A.

Degrees conferred:

Degrees.

Hoods.

B.A.	- - -	University red, lined with lighter university red silk.
M.A.	- - -	University red, lined with white silk.
D.Litt.	- - -	University red, lined with salmon silk.
B.Sc.	- - -	University red, lined with lighter university red silk.
M.Sc.	- - -	University red, lined with white silk.
D.Sc.	- - -	University red, lined with salmon silk.
M.B., Ch.B.	- - -	University red, lined with lighter university red silk.
Ch.M.	- - -	University red, lined with white silk.
M.D.	- - -	University red, lined with salmon silk.
Ph.D.	- - -	University red, lined with salmon silk.

PROFESSORS.

FACULTY OF ARTS.

Professors:

F. F. Boillot, *French*.F. Brooks, *Classics*.J. E. V. Crofts, *English*.J. F. Dobson, *Greek*.G. H. Leonard, *Modern History*.C. L. Morgan, *Psychology and Ethics*.H. M. Wodehouse, *Education*.

Readers and Lecturers:

C. Ord, *German*.E. Gualtieri, *Italian*.E. Sibree, *Oriental Languages*.H. Pitman, *Classics*.P. Haworth, *English*.E. G. Ingram, *English*.M. C. Staveley, *History*.W. L. Cooper, *History*.

Readers and Lecturers—Continued:

C. MacInnes, *History*.A. Gardner, *Byzantine History*.B. M. N. Perkins, *French*.T. S. Foster, *Method*.

A. Mullock, "

Rev. J. Polack, *Hebrew*.Rev. de Lacy O'Leary, *Aramaic, Syriac, and Hellenistic Greek*.A. M. Wilshere, *Law*.

C. A. Chilton, "

T. S. Foster, *Education*.

M. F. Pease, "

C. Bucknall, *Harmony and Counter-* [point.Rev. J. Segall, *Arabic*.Major C. Corfield, *Military Law*.Capt. R. I. Rawson, *Military Organization and Administration*.

FACULTY OF SCIENCE.

Professors :

- B. T. P. Barker, *Agricultural Biology*.
 E. S. Boulton, *Applied Mathematics*.
 O. V. Darbishire, *Botany*.
 F. Francis, *Chemistry*.
 H. R. Hasse, *Mathematics*.
 J. W. McBain, *Physical Chemistry*.
 S. H. Reynolds, *Geology*.
 A. M. Tyndall, *Physics*.
 J. Wertheimer, *Applied Chemistry*.

Readers and Lecturers :

- H. Bolton, *Paleontology*.
 W. D. Henderson, *Zoology*.
 P. Fraser, *Pure Mathematics*.
 S. Brodetsky, *Applied Mathematics*.
 I. Williams, *Physics*.
 B. Hodgson, *Physics*.
 O. C. M. Davis, *Chemistry*.
 F. W. Rixon, "
 M. Nierenstein, *Biochemistry*.
 E. Russel, *Chemistry*.
 C. T. Gimingham, *Agricultural Chemistry*.
 A. H. Lees, *Plant Pathology*.
 O. Grove, *Oenology*.
 S. P. Wiltshire, *Mycology*.
 H. Stanley, *Applied Chemistry*.
 J. D. Fry, *Physics*.
 J. W. White, *Systematic Botany*.

FACULTY OF MEDICINE.

Professors :

- G. A. Buckmaster, *Physiology*.
 F. H. Edgeworth, *Medicine*.
 E. Fawcett, *Anatomy*.
 I. W. Hall, *Pathology*.
 C. A. Morton, *Surgery*.

Post-Graduate Courses.—Post-Graduate Courses in all faculties leading to the Diploma in Education and Diploma in Public Health.

Libraries.—

- General Library. *Librarian* : E. Sibree, M.A.
 Medical Library. *Hon. Librarian* : C. K. Rudge, M.R.C.S., L.R.C.P.

AFFILIATED INSTITUTIONS.

- National Fruit and Cider Institute, Long Ashton, Somerset.
 The Baptist College, Bristol.
 The Western College, Bristol.
 The Theological College, Salisbury.
 St. Boniface College, Warminster.
 Redland High School and Colston's Girls' School, Bristol (for Froebel Training).

MERCHANT VENTURERS' TECHNICAL COLLEGE, Bristol. (1856.)

The Faculty of Engineering of the University of Bristol is provided and maintained in the College.

- Terms* : Three per year—October to June.
Students : 200, exclusive of more than 600 evening students.
Budget : Expenditure about £13,000 a year.

Professors—Continued :

- J. Swain, *Surgery*.
 W. C. Swayne, *Obstetrics*.

Lecturers :

- D. S. Davies, *Public Health*.
 J. P. Bush, *Operative Surgery*.
 R. G. P. Lansdown, *Practical Surgery*.
 C. H. Walker, *Ophthalmology*.
 G. Parker, *Forensic Medicine and Toxicology*.
 N. Neild, *Pharmacology and Therapeutics*.
 W. R. Ackland, *Dental Surgery*.
 E. A. G. Dowling, *Operative Dental Surgery*.
 J. C. Wing, *Dental Mechanics*.
 P. W. Williams, *Laryngology, Rhinology, and Otolology*.
 D. G. Rayner, *Obstetrics*.
 E. W. H. Groves, *Surgery to Dental Students*.
 J. V. Blachford, *Mental Diseases*.
 A. R. Short, *Physiology*.
 F. R. Cross, *Ophthalmology*.

FACULTY OF ENGINEERING.

Professors :

- R. M. Ferrier, *Civil Engineering*.
 W. Morgan, *Automobile Engineering*.
 A. Robertson, *Mechanical and Mining Engineering*.
 D. Robertson, *Electrical Engineering*.

Lecturers :

- W. E. Francis, *Civil Engineering*.
 F. R. B. Watson, *Mechanical Engineering*.
 11 Assistant Lecturers, 11 Demonstrators, 32 Recognized Teachers.

OFFICIALS.

Dean.—Prof. J. Wertheimer, B.A., D.Sc., F.I.C.

Secretary.—G. H. Pope, M.A., B.C.L., D.L.

Treasurer.—W. W. Ward, M.A., LL.D., J.P.

Degrees conferred.—B.Sc., M.Sc., and D.Sc. in Engineering.

PROFESSORS.

R. M. Ferrier, *Civil Engineering.*

A. Robertson, *Mechanical Engineering.*

D. Robertson, *Electrical Engineering.*

W. Morgan, *Automobile Engineering.*

J. Wertheimer, *Applied Chemistry.*

E. S. Boulton, *Applied Mathematics.*

S. H. Reynolds, *Geology.*

150 Lecturers, 13 Assistant Lecturers,

10 Demonstrators.

Post-Graduate Courses are provided in all departments, and a large amount of research work is carried on in the Faculty.

Learned Societies.—University of Bristol Engineering Society. *President:* Prof. D. Robertson. *Chairman:* J. A. L. Hooper. *Secretary:* J. R. Bamber.

The Library contains about 6,000 volumes. *Librarian:* Dorothy B. Shepherd.

BRITISH COLUMBIA, UNIVERSITY OF. See VANCOUVER.

BRITISH MEDICAL ASSOCIATION. See LONDON.

BRITISH MUSEUM. See LONDON.

BRITISH ORNITHOLOGISTS' UNION. See LONDON.

BROWN UNIVERSITY. See PROVIDENCE.

BRUNSWICK (Maine).

BOWDOIN COLLEGE. No particulars received.

BRYN MAWR (Pennsylvania).

BRYN MAWR COLLEGE, Bryn Mawr, Pa. (1880.)

Terms: Two semesters—October to February, February to June.

Students: Undergraduates, 385; Graduates, 98. (Number of undergraduates limited by number of rooms available in halls of residence.)

OFFICIALS.

President.—M. Carey Thomas, Ph.D., LL.D.

Acting President for 1919-20.—Helen H. Taft, A.M.

Recording Dean and Assistant to the President.—Isabel Maddison, B.Sc., Ph.D.

Dean of the College for 1919-21.—Hilda W. Smith, A.M.

Secretary and Registrar of the College.—Edith Orlady, A.B.

Degrees conferred:

B.A. Hood—lined yellow silk, trimmed white fur.

M.A. Hood—lined yellow silk, trimmed white velvet.

Ph.D. Hood—lined yellow silk, with edge of blue velvet.

PROFESSORS.

FACULTY OF ARTS AND SCIENCES.

Professors:

J. Barnes, *Physics.*

G. A. Barton, *Biblical Literature and Semitic Languages.*

F. Bascom (Miss), *Geology.*

Professors—Continued:

R. F. Brunel, *Chemistry.*

R. Carpenter, *Classical Archeology.*

M. Castro (Miss), *Education.*

R. K. Crandall (Miss), *English Composition.*

Professors—Continued :

F. DeHaan, *Spanish*.
 T. de Leo de Laguna, *Philosophy*.
 L. M. Donnelly (Miss), *English*.
 C. G. Fenwick, *Political Science*.
 C. E. Ferree, *Experimental and Systematic Psychology*.
 H. L. Gray, *History*.
 W. B. Huff, *Physics*.
 K. D. Jessen, *German*.
 G. G. King (Miss), *History of Art*.
 S. M. Kingsbury (Miss), *Social Economy and Social Research*.
 J. H. Leuba, *Psychology*.
 H. N. Sanders, *Greek*.
 C. A. Scott (Miss), *Mathematics*.
 M. P. Smith (Mrs.), *Economics*.
 W. R. Smith, *History*.
 D. H. Tennent, *Biology*.
 A. L. Wheeler, *Latin*.

Associate Professors :

J. B. Beck, *French Philology*.
 S. C. Chew, *English Literature*.
 C. W. David, *History*.
 G. M. A. de Laguna (Mrs.), *Philosophy*.
 S. C. Brooks, *Physiology and Bio-Chemistry*.
 A. J. Pell (Mrs.), *Mathematics*.
 H. J. Savage, *English Composition*.
 E. M. Schenck (Miss), *French*.
 W. C. Wright (Mrs.), *Greek*.

Associates :

A. H. Arlitt (Mrs.), *Education*.
 J. L. Crenshaw, *Physical Chemistry*.
 G. Rand (Miss), *Experimental and Applied Psychology*.
 A. R. Riddell (Miss), *Italian*.
 E. E. Sabin (Miss), *Philosophy*.
 4 Lecturers, 12 Instructors, 2 Readers,
 4 Demonstrators.

Post-Graduate Courses leading to the degree of Doctor of Philosophy are given in the following subjects:

Sanskrit and Indo-European Philology, Greek, Latin, English, Philology including Anglo-Saxon, Early and Middle English, English Literature, German Literature, Gothic Teutonic Philology, Old Norse, Old High German, Old Saxon, Modern and Old French, Italian, Spanish, and other Romance Languages, Hebrew, Aramaic, Assyrian, Biblical Literature, History, Economics, and Politics, Social Economy and Social Research, Philosophy, Psychology, Education, Classical Archeology, History of Art, Mathematics, Physics, Chemistry, Physical Chemistry, Geology, Mineralogy, Paleontology, Morphology, Physiology, and Bio-Chemistry.

Learned Societies.—Journal Club meetings held fortnightly for discussion of periodical literature and recent research in the following departments:

Greek, Latin, English, Romance Languages, German, History Economics and Politics, Social Economy, Philosophy, Psychology Education, Classical Archeology, History of Art, Mathematics, Physics, Chemistry, Geology, Biology.

Library of 90,000 volumes; 10,000 dissertations and pamphlets; over 400 periodicals, reviews, and scientific journals.

BUFFALO (New York).

UNIVERSITY OF BUFFALO, N.Y. (1846.)

Terms: Two semesters—September to February, February to June.

Students: 1049.

OFFICIALS.

Chancellor.—Charles P. Norton.

Secretary of the Council.—Philip B. Goetz.

Treasurer.—W. H. Crosby.

Dean of the Faculty of Arts and Sciences.—Julian Par..

Dean of the Faculty of Medicine.—Charles S. Jones.

Dean of the Faculty of Pharmacy and Chemistry.—W. G. Gregory.

Dean of the Faculty of Dentistry.—Daniel H. Squire.

Dean of the Faculty of Law.—Carlos C. Alden.

Degrees conferred.—B.A., B.Sc., Doctor of Medicine. Doctor of Pharmacy. Master of Pharmacy, Graduate in Pharmacy, Pharmaceutical Chemist, Analytical Chemist, Doctor of Dental Surgery, Bachelor of Laws, Master of Laws.

Caps, gowns, and hoods correspond to the American-intercollegiate code.

PROFESSORS.

FACULTY OF ARTS AND SCIENCES.

Albert P. Sy, *Chemistry*.
 W. H. Sherk, *Mathematics*.
 A. R. Shadle, *Biology*.
 P. B. Goetz, *English*.
 J. Park, *History*.
 E. J. Moore, *Physics*.
 D. B. Leary, *Philosophy*.
 3 Associates, 6 Instructors, 10 Lecturers.

FACULTY OF DENTISTRY.

D. H. Squire, *Operative Dentistry*.
 C. K. Buell, *Crown and Bridge Work*.
 (Vacant), *Physiology*.
 M. Clinton, *Surgery*.

FACULTY OF MEDICINE.

De L. Rochester, *Principles and Practice of Medicine*.
 H. U. Williams, *Pathology and Bacteriology*.

Post-Graduate Courses.—Course in Public Health (in the Medical Faculty.)

Museums of medical and dental pathology, geology, and mineralogy.

Libraries.—

General Library. *Librarian*: Jean Agnew.
 Medical Library. *Librarian*: Irving P. Lyon.
 Dental Library. *Librarian*: (Vacant.)
 Law Library. *Librarian*: George D. Crofts.

Faculty of Medicine—Continued:

G. W. Wende, *Dermatology*.
 J. W. Putman, *Neurology*.
 H. G. Matzinger, *Psychiatry*.
 J. L. O'Brien, *Medical Jurisprudence*.
 F. C. Goldsborough, *Obstetrics*.
 De Witt H. Sherman, *Pediatrics*.
 G. F. A. Hartman, *Physiology*.
 E. G. Starr, *Ophthalmology*.
 De Lancey Rochester, *Medicine*.
 G. F. Cott, *Oto-Laryngology*.
 E. R. McGuire, *Surgery*.
 W. W. Plummer, *Orthopedics*.
 E. W. Koch, *Pharmacology*.
 W. J. Atwell, *Anatomy*.
 E. H. Long, *Materia Medica and Therapeutics, and Toxicology*.
 R. F. Morgan, *Microscopy*.
 7 Lecturers; 48 Assistant, Adjunct, and Associate Professors; 41 Instructors; 16 Assistants and other Teachers.

BUREAU OF AMERICAN ETHNOLOGY. See WASHINGTON.

BUREAU OF EDUCATION (India). See SIMLA.

BURLINGTON (Vermont).

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—J. L. Hills.

BUSSEY INSTITUTION. See BOSTON.

CAIRO (Egypt).

PHYSICAL DEPARTMENT, MINISTRY OF PUBLIC WORKS, Cairo.

Controller.—H. E. Hurst.
Director of Hydrology and Physical Research.—E. B. H. Wade.
Director of Weights and Measures Service.—P. A. Curry.
Director of Meteorological Service.—H. Knox-Shaw.

The technical staff of the Department numbers 80.

HELWAN OBSERVATORY.

Latitude 29° 51' 33" N. Longitude 31° 20' 30" E. Height above sea-level, 116 metres.

Astronomical Observatory and First Order. Meteorological Station for Egypt.

Director.—H. Knox-Shaw.

Staff of 12 Assistants.

CALCUTTA (India).

CALCUTTA UNIVERSITY, College Square, Calcutta. (1857.)

Session : June to May.

OFFICIALS.

Chancellor.—His Excellency the Rt. Hon. Sir F. J. N. Thesiger, P.C., G.C.S.I., G.C.M.G., G.C.I.E., Baron Chelmsford.*Vice-Chancellor*.—The Hon. Sir Nilratan Sircar, Kt., M.A., M.D.*Rector*.—His Excellency the Rt. Hon. L. J. L. Dundas, G.C.I.E., Earl of Ronaldshay.*Registrar*.—J. C. Ghosh, M.A.*Assistant Registrar*.—C. B. Maitra, M.A.*Controller of Examination*.—Rai A. C. Bose, Bahadur, M.A.**Degrees conferred**.—B.A., B.Sc., M.A., M.Sc., LL.B., LL.M., LL.D., M.B., B.E., D.Ph., D.Sc., M.D., M.O.

PROFESSORS.

Professors :P. Bruhl, *Botany*.C. E. Cullis, *Higher Mathematics*.(Vacant), *Economics*.B. N. Seal, *Philosophy*.D. R. Bhandarker, *Ancient History*.

Sir P. C. Ray (Sir Taraknath Palit Professor). [Professor].

C. V. Raman (Sir Taraknath Palit Sudhansukumar Banerjee (Sir Rashbehary Ghose Professor).

D. M. Bose (Sir Rashbehary Ghose Professor).

Professors—Continued :

S. P. Agharkar (Sir Rashbehary Ghose Professor).

P. C. Mitter (Sir Rashbehary Ghose Professor).

Assistant Professors :S. B. Bal, *Botany*.P. Gangooly, *Ancient History*.

R. Dotta (Sir Taraknath Palit Assistant Professor).

T. K. Chinmayanandam (Sir Taraknath Palit Assistant Professor).

1 Lecturer in French; 14 Lecturers in English; 18 Lecturers in Sanskrit; 9 Lecturers in Pali; 6 Lecturers in Arabic and Persian; 3 Lecturers in Comparrhic Philology; 13 Lecturers in Philosophy; 7 Lecturers in Experimental Psychology; 23 Lecturers in History; 14 Lecturers in Economics; 11 Lecturers in Pure Mathematics. 1 Instructor in Tibetan; 1 Instructor in Modern Languages; 1 Instructor in Japanese; 4 Instructors in Chemistry; 2 Instructors in Geology; 2 Teachers in Pali; 1 Research Fellow.

AFFILIATED COLLEGES.

Anandomohan College, Mymeneingh.

Bagerhat College.

Bangabasi College.

Bethune College.

Brajamonhan College, Barisal.

Burdwan Raj College.

Carmichael Medical College, Belgachia.

Carmichael College, Rungpore.

Central College, Calcutta.

Chittagong College.

City College, Calcutta.

Civil Engineering College, Sibpore.

Cotton College, Gauhati.

Dacca College.

Dacca Law College.

Dacca Training College.

Daulatpore Hindu College.

David Hare Training College.

Diocesan College.

Earle Law College, Gauhati.

Edward College, Pabna.

Hughli College.

Jagannath College, Dacca.

Judson College, Rangoon.

Krishnachandra College, Hetaimpore.

Krishnagar College.

Krichnath College, Bernhampore.

Loreto House, Calcutta.

Medical College, Calcutta.

Midnapore College.

Murarichand College, Sylhet.

Presidency College, Calcutta.

Rajendra College, Faridpore.

Rajshahi College.

Rangoon College.

Rangoon Law College.

Ripon College, Calcutta.

Ripon Law College, Calcutta.

Sanskrit College.

Scottish Churches College, Calcutta.

Serampore College.

South Suburban College, Bhowanipore.

St. Paul's C.M. College, Calcutta.

St. Xavier's College.

Uttarpara College.

Victoria College, Comilla.

Victoria College, Cooch Bihar.

Victoria College, Narail.

Vidyasagar College.

Wesleyan Mission College, Bankura.

CALCUTTA MADRASAH, Wellesley Square, Calcutta.

Founded by Warren Hastings in 1780.

The Madrasah as at present existing provides through the medium of the Arabic Department a linguistic and Islamic training, based in great part on the systems in vogue in the ancient seats of Arabic learning, with a course of reading in Persian or English, and, through the medium of the Anglo-Persian Department, a High School education qualifying pupils for admission to the Matriculation Examination of the Calcutta University. The Madrasah is a Government Institution, and is under the control of the Director of Public Instruction, Bengal.

Session : July to May.

Budget : Current Expenditure: Rs. 62,000.

Students : 520 (exclusive of 580 in Anglo-Persian Department).

OFFICIAL.

Principal.—A. H. Harley, M.A.

ARABIC DEPARTMENT: PROFESSORS.

M. M. A. Tonki, <i>Arabic</i> (Head Maulvi).	M. Mazhar, <i>Arabic</i> .
M. N. Husain "	M. Quasim "
S. M. Safiullah "	M. Suhul "
M. Karim "	M. J. Ansari "
M. Ishaq "	K. I. M. Arab "
M. Yahya "	S. H. Ali, B.A. (Head Master).
A. Samad "	Samiruddin, B.A.
S. Wasiuddin "	

ANGLO-PERSIAN DEPARTMENT: MASTERS.

Head Master.—M. Yusuf, M.A.

Assistant Head Master.—K. P. Bhattacharya, B.A.

R. Quads, <i>Anglo-Persian</i> .	A. Khaled, <i>Anglo-Persian</i> .
Azhar-us-Sadain "	S. Ahmad "
S. Khaliluddin "	S. Shah "
M. Ahmad "	A. S. M. Karim "
M. A. Mannan "	Z. A. Khan "
Besharatullah "	M. A. Ali "
H. Nazir "	M. Qasim "
M. Taheruddin "	K. Dutt "
S. M. A. Ghani "	B. K. Chakravarty "

Post-Graduate Courses.—The Title Classes provide a special course in the Traditions of Islam and Arabic Literature after the completion of the Senior Course.

Libraries.—The Library contains about 15,000 volumes, Arabic, Persian, and Urda literature, being specially well represented. *Librarian* : Maulvi A. M. Fazlul Wahhab.

SCOTTISH CHURCHES COLLEGE, Cornwallis Square, Calcutta. (1831.)

The College is affiliated to the Calcutta University, and teaches up to the Honours standard in English, Philosophy, Sanskrit, History, Economics, Mathematics, Physics, and Chemistry in the B.A. course, and in Mathematics, Physics, and Chemistry in the B.Sc. course.

Terms : Three a year.

Students : 1,127.

OFFICIAL.

Principal.—Rev. J. Watt, M.A., D.D.

Library.—Of 12,000 volumes.

ST. PAUL'S CATHEDRAL COLLEGE, 33, Amherst Street, Calcutta. (1860.)

Terms : Three a year.

Students : 240.

OFFICIALS.

Principal.—Rev. W. E. S. Holland, M.A.

Vice-Principal.—Rev. A. B. Johnston, M.A.

Degrees conferred.—B.A., I.A.

PROFESSORS.

Rev. A. B. Johnston, <i>English</i> .	K. L. Banerji, <i>Philosophy</i> .
Rev. R. J. Kennedy, ”	D. Mondle, ”
J. S. Zemin, <i>English</i> .	J. C. Mondle, <i>Mathematics</i> .
W. S. A. Robertson, <i>English</i> .	S. C. Basu, ”
H. Stuart, <i>English</i> .	D. Basu, <i>Economics</i> .
H. K. Bose, ”	J. Bhattacharji, <i>Sanskrit and Bengali</i> .
Rev. W. E. S. Holland, <i>History</i> .	P. Chatterji, ”
S. P. Vaswani, <i>History</i> .	D. Sircar, <i>Chemistry</i> .
P. Mahanti, ”	1 Demonstrator.

Library.—College Library. *Librarian* : H. Stuart, M.A.

DAVID HARE TRAINING COLLEGE FOR SECONDARY TEACHERS, College Square, Calcutta. (1908.)

Affiliated to Calcutta University.

Terms : One a year.

Students : 50.

OFFICIAL.

Principal.—W. E. Griffith, M.A.

Degrees conferred.—L.T. Diploma (Licentiate in Teaching) no hood; B.T. Degree (Bachelor of Teaching). Hood of black silk or stuff, edged on the inside with a border of purple-coloured silk.

Library.—A Technical and General Library. *Librarian* : Manmatta Nath Mitra.

GEOLOGICAL SURVEY OF INDIA, and Geological Museum, 27, Chowringhee Road, Calcutta. (1856.)

Director.—H. H. Hayden, C.S.I., C.I.E., B.A., B.A.I., D.Sc., F.R.S., F.G.S., F.A.S.B.
Superintendents.—

E. W. Vredenburg, B.L., B.Sc., A.R.S.M., A.R.C.S., F.G.S.

L. Leigh Fermor, O.B.E., A.R.S.M., D.Sc., F.G.S.

E. H. Pascoe, M.A., D.Sc., F.G.S.

Assistant Superintendents.—

G. E. Pilgrim, G. H. Tipper, H. Walker, K. A. K. Hallowes, G. de P. Cotter, J. C. Brown, H. C. Jones, A. M. Heron, M. Stuart, C. S. Fox, R. W. Palmer, S. Sethu Rama Rau, M. Vinayak Rao.

Chemist.—W. A. K. Christie.

Head Clerk.—A. K. Banerji.

Geological Museum, Library, and Office, Calcutta.

Library.—Nearly 30,000 volumes.

Publications.—*Records*, *Memoirs*, and *Paleontologia Indica*.

ASIATIC SOCIETY OF BENGAL, 1, Park Street, Calcutta. (1784.)

OFFICERS AND MEMBERS OF COUNCIL OF THE SOCIETY.

President.—Mahamahopadhyaya Haraprasad Shastri, C.I.E., M.A., F.A.S.B.

Vice-Presidents.—

The Hon. Justice Sir Asutosh Mukhopadhyaya, Kt., C.S.I., D.L., D.Sc., F.R.S.E., F.R.A.S., F.A.S.B.

The Hon. F. J. Monahan, I.C.S.

Lieut.-Col. W. D. Sutherland, C.I.E., M.D., F.A.S.B., I.M.S.

G. C. Simpson, D.Sc., F.R.S., F.A.S.B.

General Secretary.—W. A. K. Christie, B.Sc., Ph.D., F.A.S.B.

Treasurer.—R. D. Mehta, C.I.E.

Philological Secretary.—The Hon. Abdulla Al-Ma'mun Suhrawardy, Iftikharul Millat M.A., Ph.D., F.A.S.B.

Natural History Secretaries.—

Biology : F. H. Gravely, D.Sc., F.A.S.B.

Physical Science : Sir P. C. Ray, Kt., C.I.E., D.Sc., Ph.D., F.A.S.B.

Anthropological Secretary.—N. Annandale, D.Sc., C.M.Z.S., F.L.S., F.A.S.B.

Joint Philological Secretary.—Mahamahopadhyaya Satis Chandra Vidyabhusana, M.A., Ph.D., F.A.S.B.

Medical Secretary.—Lieut.-Col. D. McCay, M.D., F.A.S.B., I.M.S.

Hon. Librarian.—The Hon. Justice Sir Asutosh Mukhopadhyaya, Kt., C.S.I., D.L., D.Sc., F.R.S.E., F.R.A.S., F.A.S.B.

The Library contains 21,000 printed books and pamphlets, 1,000 periodicals, and 17,850 manuscripts.

Publications.—

Asiatic Researches (1788-1836).

Journal (since 1832).

Proceedings (since 1865).

Journal and Proceedings (since 1905).

Bibliotheca Indica (since 1848).

Memoirs (since 1905).

CALHOUN (Louisiana).

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—W. R. Dodson.

CAMBRIDGE.

THE UNIVERSITY OF CAMBRIDGE.

Terms : Three per year.

Students (Undergraduates) : 4,582.

OFFICIALS.

Chancellor.—The Right Hon. John William Strutt, Baron Rayleigh, O.M., M.A., Hon. Sc.D. (Trin.).

Vice-Chancellor.—Sir Arthur Everett Shipley, Sc.D. (Chr.).

High Steward.—(Vacant).

Deputy High Steward.—John Frederick Peel Rawlinson, K.C., LL.M. (Trin.).

Representatives in Parliament.—

John Frederick Peel Rawlinson, K.C., LL.M. (Trin.).

Prof. Sir Joseph Larmor, M.A. (Joh.).

Commissary.—John Frederick Peel Rawlinson, K.C., LL.M. (Trin.).

Proctors.—

John Macalister Dodds, M.A. (Pet.).

Robert Alfred Herman, M.A. (Trin.).

Public Orator.—T. R. Glover.

Registrary.—John Neville Keynes, Sc.D. (Pemb.).

Librarian.—Francis John Henry Jenkinson, M.A. (Trin.).

Counsel.—

John Alderson Foote, K.C., M.A. (Joh.).

Mark Lemon Romer, K.C., M.A. (Trin. H.).

Esquire Bedells.—

Arthur Humble Ekans, M.A. (Cla.).

Rupert Hamblin Smith, M.A. (Pet.).

Deputy Vice-Chancellors for the Years 1918-1919.—

Dr. Giles, Master of Emmanuel.

Mr. Fitzpatrick, President of Queens'.

Sex Viri.—Dr. Pearce, Sir W. Durnford, G.B.E., Professor Buckland, Dr. Giles,

Mr. R. F. Scott, Dr. Kenny.

Court of Discipline.—Dr. Anderson, Mr. A. Gray, Mr. Fitzpatrick, Mr. Hadley,

Dr. Mollison, Mr. R. F. Scott.

Auditors of Chest.—Mr. Hadley, Mr. Corbett (King's), Mr. Peel (Magd.).

Moderators.—Mr. Welsh (Jes.), Mr. Hardy (Trin.).

Deputy Proctors.—Mr. Munro (Qu.), Mr. Ramsey (Magd.).

Pro-Proctors.—Mr. Glover (Joh.), Mr. Rushmore (Cath.).

Organist.—A. H. Mann, Mus.D. (Oxf.), Hon. M.A. (King's).

Sir Robert Rede's Lecturer.—The Right Hon Lord Moulton, K.C.B., G.B.E., M.A.

Hon. LL.D. (Chr.).

Lady Margaret's Preacher.—The Ven. A. G. Robinson, M.A.

Hulsean Lecturer.—The Rev. A. Nairne, D.D. (Jes.).

Degrees conferred :

<i>Degrees.</i>	<i>Hoods.</i>
B.A. - -	Black silk, trimmed with white fur.
B.C. - -	Black silk, lined with pink silk.
B.D. - -	Black silk.
D.D. - -	Scarlet cloth, lined pink and violet shot silk.
Litt.D. - -	Scarlet cloth, lined scarlet silk.
LL.B. - -	Black silk, trimmed with white fur.
LL.D. - -	Scarlet silk, lined light cherry-coloured silk.
LL.M. - -	Black silk, lined with white silk.
M.A. - -	Black silk, lined with white silk.
M.B. - -	Black silk, lined with pink silk.
M.C. - -	Black silk, lined with white silk.
M.D. - -	Scarlet cloth, lined with dark cherry-coloured silk.
Mus.B. - -	Dark cherry-coloured satin, lined with white fur.
Mus.M. - -	Black silk, lined with white silk.
Mus.D. - -	Damasked cream-white silk, lined with dark cherry-coloured satin.
Sc.D. - -	Scarlet cloth, lined with pink and blue silk.

PROFESSORS.

FACULTY OF DIVINITY.

Professors :

- J. F. Bethune-Baker, *Divinity.*
- V. H. Stanton, *Divinity.*
- F. C. Burkitt, "
- W. E. Barnes, "
- A. E. Brooke, "

Lecturer :

- T. H. Greig, *Pastoral Theology.*

FACULTY OF LAW.

Professors :

- W. W. Buckland, *Civil Law.*
- H. D. Hazeltine, *Law.*
- L. Oppenheim, *International Law.*

FACULTY OF MEDICINE.

Professors :

- Sir T. Clifford Allbutt, *Physics.*
- A. Macalister, *Anatomy.*
- J. B. Bradbury, *Medicine.*
- J. N. Langley, *Physiology.*
- G. Sims Woodhead, *Pathology.*

Reader :

- J. Barcroft, *Physiology.*

Lecturers :

- J. E. Purvis, *Chemistry and Physics in their application to Hygiene and Preventive Medicine.*
- G. S. Graham-Smith, *Hygiene.*
- S. W. Cole, *Medical Chemistry.*
- L. Cobbett, *Pathology.*
- W. E. Dixon, *Pharmacology.*
- W. B. Hardy, *Physiology.*
- L. E. Shore, *Physiology (Advanced).*
- A. V. Hill, *Physiology.*
- H. Hartridge, *Physiology of the Senses.*
- T. S. P. Strangeways, *Special Pathology.*
- F. Deighton, *Vaccination.*

MATHEMATICS, ASTRONOMY,
PHYSICS, CHEMISTRY, AND
MINERALOGY, ETC.

Professors :

- Sir Joseph Larmor, *Mathematics.*
- Sir W. J. Pope, *Chemistry.*
- A. S. Eddington, *Astronomy.*
- H. F. Baker, *Astronomy and Geometry.*
- Sir James Dewar, *Natural Philosophy.*
- W. J. Lewis, *Mineralogy.*
- E. W. Hobson, *Pure Mathematics.*
- Sir E. Rutherford, *Experimental Physics.*
- C. E. Inglis, *Mechanism and Applied Mechanics.*
- H. F. Newall, *Astrophysics.*
- F. G. Hopkins, *Biochemistry.*

Readers :

- C. T. Heycock, *Metallurgy.*
- A. Harker, *Petrology.*

Lecturers :

- F. J. M. Stratton, *Astrophysics.*
- H. J. H. Fenton, *Chemistry.*
- C. G. Lamb, *Electrical Engineering.*
- G. F. C. Searle, *Experimental Physics.*
- C. T. R. Wilson, " "
- C. S. Myers, *Experimental Psychology.*
- H. W. Richmond, *Mathematics.*
- R. A. Herman, " "
- T. J. I'A. Bromwich, " "
- J. H. Grace, *Mathematics.*
- A. Berry, " "
- G. H. Hardy, " "

BIOLOGY AND GEOLOGY.

Professors :

- A. C. Seward, *Botany.*
- J. E. Marr, *Geology.*
- J. S. Gardiner, *Zoology and Comparative Anatomy.*
- G. H. F. Nuttall, *Biology.*
- R. C. Punnett, *Genetics.*

Readers :

- F. F. Blackman, *Botany*.
 F. G. Hopkins, *Chemical Physiology*.
 Sir A. E. Shipley, *Zoology*.
 A. C. Haddon, *Ethnology*.

Lecturers :

- H. Gadou, *Advanced Morphology of Vertebrates*.
 A. G. Tansley, *Botany*.
 E. H. Minns, *Paleography*.
 H. Woods, *Paleozoology*.
 W. L. H. Duckworth, *Physical Anthropology*.
 L. A. Borradaile, *Zoology*.
 L. Doncaster, *Zoology*.

ORIENTAL LANGUAGES.

Professors :

- R. H. Kennett, *Hebrew*.
 E. G. Browne, *Arabic*.
 A. A. Bevan, "
 E. J. Rapson, *Sanskrit*.
 H. A. Giles, *Chinese*.

Reader :

- I. Abrahams, *Talmudic*.

Lecturers :

- N. McLean, *Aramaic*.
 R. A. Nicholson, *Persian*.

CLASSICS, ETC.

Professors :

- H. Jackson, *Greek*.
 A. E. Housman, *Latin*.
 H. M. Chadwick, *Anglo-Saxon*.

Readers :

- P. Giles, *Comparative Philology*.
 W. Ridgeway, *Classics*.

Lecturer :

- S. G. Campbell, *Classics (Epigraphy and Dialects)*.

MODERN LANGUAGES.

Professors :

- K. Breul, *German*.
 Sir A. T. Quiller-Couch, *English Literature*.
 T. Okey, *Italian*.

Reader :

- E. G. W. Braunholtz, *Romance*.

Lecturers :

- E. C. Quiggin, *German*.
 A. O. Goudy, *Russian*.

HISTORY AND ARCHEOLOGY.

Professors :

- J. B. Bury, *Modern History*.
 W. Ridgeway, *Archeology*.
 J. P. Whitney, *Ecclesiastical History*.
 J. S. Reid, *Ancient History*.
 J. Holland Rose, *Naval History*.

Readers :

- A. B. Cook, *Classical Archeology*.
 J. H. Rose, *Modern History*.

Lecturer :

- T. R. Glover, *Ancient History*.

GEOGRAPHY.

Lecturers :

- H. Y. Oldham, *Geography (Historical and Economic)*.
 P. Lake, *Geography (Regional and Physical)*.
 C. S. Wright, *Surveying and Cartography*.

AGRICULTURE.

Professors :

- T. B. Wood, *Agriculture*.
 R. H. Biffin, *Agricultural Botany*.
 W. Dawson, *Forestry*.
 K. J. J. Mackenzie, *Agriculture*.

Lecturers :

- F. H. A. Marshall, *Agricultural Physiology*.
 C. R. Fay, *Agriculture*.

MORAL SCIENCES, ETC.

Professors :

- W. R. Sorley, *Moral Philosophy*.
 A. C. Pigou, *Political Economy*.
 J. Ward, *Mental Philosophy and Logic*.

Lecturers :

- J. M. Keynes, *Economics*.
 W. T. Layton, "
 G. E. Moore, *Moral Science*.
 W. E. Johnson, "
 G. Udny Yule, *Statistics*.

MUSIC.

Professor :

- Sir Charles V. Stanford, *Music*.

Lecturer :

- C. Wood, *Harmony and Counterpoint*.

FINE ART.

Professor :

- E. S. Prior, *Fine Arts*.

COLLEGES AND COLLEGE LECTURERS.

Peterhouse College.

- Master*.—Sir Adolphus W. Ward, M.A., Litt.D.
Tutor.—H. J. Edwards, M.A. [M.A.]
Assistant Tutor.—H. W. V. Temperley,

Lecturers :

- J. M. Dodds, *Mathematics*.
 J. H. Grace, "
 H. J. Edwards, *Classics*.
 H. W. V. Temperley, *History*.

Clare College.

Master.—W. Loudon Mollison, M.A., LL.D.

Tutor.—J. R. Wardale, M.A.

Lecturers :

- W. J. Harrison, *Mathematics.*
- J. R. Wardale, *Classics.*
- Rev. P. C. T. Crick, *Theology.*
- A. P. Higgins, *Law.*
- H. Thirkill, *Physics and Chemistry.*
- H. H. Brindley, *Biology and Zoology.*
- Ff. Roberts, *Physiology.*
- M. D. Forbes, *English.*
- Rev. J. M. V. Hope, *Moral Philosophy.*

Pembroke College.

Master.—W. Sheldon Hadley, M.A.

Tutor.—J. C. Lawson, M.A.

Lecturers :

- G. Birtwistle, *Mathematics.*
- J. C. Lawson, *Classics.*
- W. S. Hadley, "
- L. Whibley, "
- J. R. Mozley, *Divinity.*
- A. Hutchinson, *Natural Science.*
- W. S. Hadley, *Modern History.*
- L. Whibley, *Ancient History.*
- G. P. Moriarty, *History.*
- C. H. Ziegler, *Law.*
- H. C. Comber, *Modern Languages.*
- J. C. Lawson, *Modern Greek.*
- E. H. Morris, *Russian.*
- J. T. Spittle, *Mechanical Science.*
- J. M. Keynes, *Economics.*

Gonville and Caius College.

Master.—H. K. Anderson, M.A., M.D., F.R.S.

Tutors.—

- W. B. Hardy, M.A., Sec. R.S.
- J. F. Cameron, M.A. (Senior).
- F. J. M. Stratton, D.S.O., M.A.
- A. D. McNair, C.B.E., M.A., LL.M.

Lecturers :

- E. G. Gallop, *Mathematics.*
- J. F. Cameron, "
- F. J. M. Stratton, "
- W. T. Vesey, *Classics.*
- J. E. Scott, "
- A. D. McNair, *Law.*
- Z. N. Brooke, *History.*
- R. F. D'Arcy, *Physics.*
- W. B. Hardy, *Physiology.*
- C. Forster Cooper, *Zoology.*
- D. G. Reid, *Anatomy.*
- F. T. Brooks, *Botany.*
- H. H. Brindley, *Biology.*
- H. Woods, *Geology.*
- Rev. J. W. Hunkin, *Divinity.*
- S. A. Cook, *Hebrew and Syriac.*
- S. A. Cook, *Comparative Study of Religion.*
- C. Wood, *Music.*

Lecturers—Continued :

- E. C. Quiggin, *Modern Languages and Celtic.*
- J. F. Cameron, *Engineering.*
- C. S. Myers, *Moral Sciences and Psychology.*

Trinity Hall.

Master.—Henry Bond, M.A., LL.D.

Tutors.—

- Rev. G. A. Chase.
- W. St. J. Pym.

Lecturers :

- Rev. C. F. Angus, *Classics.*
- H. Bond, *Law.*
- D. T. Oliver, *Law.*
- Rev. G. A. Chase, *Divinity.*
- F. A. Potts, *Natural Science.*
- J. E. S. Green, *History.*
- F. W. Dootson, *Chemistry and Physics.*
- R. A. Hayes, *Engineering.*

Corpus Christi College.

Master.—Rev. Edmund Courtenay Pearce.

Tutor.—W. Spens.

Lecturers :

- G. P. Thomson, *Mathematics.*
- G. G. Morris, *Classics.*
- W. Spens, *Natural Science.*
- Rev. E. C. Hookyns, *Theology.*
- Sir G. G. G. Butler, *History.*
- K. W. M. Pickthorn, *History.*

King's College.

Provost.—Sir Walter Durnford, M.A., LL.D., G.B.I.

Vice-Provost.—W. H. Macaulay, M.A.

Tutor.—J. H. Clapham.

Lecturers :

- A. Berry, *Mathematics.*
- H. W. Richmond, *Mathematics.*
- H. H. Sills, *Classics.*
- J. T. Sheppard, *Classics.*
- F. E. Adcock, *Classics.*
- Rev. A. E. Brooke, *Divinity.*
- G. L. Dickinson, *History and Economics.*
- F. W. Reddaway, " "
- J. H. Clapham, " "
- J. M. Keynes, " "
- G. T. Heycock, *Natural Science.*
- J. Barcroft, " "
- A. A. Tilley, *Modern Languages.*
- L. B. Turner, *Mechanical Science.*

Queens' College.

President.—Rev. Thomas Cecil Fitzpatrick, M.A.

Vice-President.—Rev. Arthur Wright, D.D.

Tutors.—

- Rev. A. Wright.
- Rev. Joseph H. Gray.

Lecturers :

A. Munro, *Mathematics*.
 Rev. J. H. Gray, *Classics*.
 A. B. Cook "
 Rev. A. Wright, *Divinity*.
 Rev. C. T. Wood "
 Rev. C. T. Wood, *Hebrew*.
 Rev. R. G. D. Laffan, *English History and Literature*.

St. Catharine's College.

Master.—Rev. Claude Hermann Walter Johns, M.A., Litt.D., D.D.
President.—Rev. E. T. S. Carr.
Tutor.—F. M. Rushmore.

Lecturers :

H. W. Spratt, *Classics*.
 W. H. S. Jones "
 F. M. Rushmore, *History*.
 W. H. S. Jones, *Ancient History*.

Jesus College.

Master.—Arthur Gray, M.A.
Tutors.—

E. Abbott, M.A.
 C. A. Elliott, M.A.

Lecturers :

J. H. H. Goodwin, *Mathematics*.
 W. Welch, *Mathematics*.
 A. Gray, *Classics*.
 E. Abbott "
 W. H. Duke "
 Rev. A. Nairne, *Theology*.
 W. L. H. Duckworth, *Natural Science*.
 W. H. Mills, *Natural Science*.
 C. A. Elliott, *History and Economics*.

Christ's College.

Master.—Sir Arthur Everett Shipley, M.A., Sc.D., F.R.S.

Tutors.—

Norman McLean, M.A.
 Harris Rackham, M.A.
 Francis Hugh Adam Marshall, Sc.D.

Lecturers :

J. Mercer, *Mathematics*.
 C. G. Darwin "
 H. Rackham, *Classics*.
 S. G. Campbell "
 R. H. Rastall, *Natural Science*.
 Rev. A. V. Valentine-Richards, *Theology*.
 N. McLean, *Hebrew*.
 D. L. Harris, *Law*.
 C. R. Fay, *History and Economics*.
 B. W. Downs, *Medieval and Modern Languages*.

St. John's College.

Master.—Robert Forsyth Scott, M.A.
Provost.—George Downing Liveing, Hon. Sc.D., F.R.S.

Tutors.—

Edward Ernest Sikes, M.A.
 Ernest Alfred Benians, M.A.
 Bernard Francis Armitage, M.A.

Lecturers :

T. J. P.A. Bromwich, *Mathematics*.
 E. Cunningham "
 T. L. Wren, *Mathematics*.
 E. E. Sikes, *Classics*.
 T. R. Glover "
 A. J. Campbell, *Classics*.
 Rev. J. M. Creed, *Theology*.
 Rev. J. C. H. How, *Hebrew*.
 J. R. Tanner, *History*.
 E. A. Benians "
 Rev. H. F. Steward, *Modern Languages*.
 P. H. Winfield, *Law*.
 C. B. Rootham, *Music*.

Magdalene College.

Master.—Arthur Christopher Benson, LL.D., C.V.O.
President and Tutor.—Arthur S. Ramsey, M.A.

Lecturers :

A. S. Ramsay, *Mathematics*.
 V. S. Vernon Jones, *Classics*.
 A. C. Benson, *History*.
 F. R. Salter "
 T. Peel, *Engineering*.
 S. Gaseler, *Paleography*.
 E. Hindle, *Natural Science*.

Trinity College.

Master.—Sir Joseph John Thomson, M.A., O.M., Pres. R.S.
Vice-Master.—Reginald St. John Parry.
Tutors.—

Reginald Orre Lawrence, M.A.
 Ernest Harrison, M.A.
 Guillard Thomas Lapsley, M.A.
 Denys Arthur Winstanley, M.A.
 Frederick James Dykes, M.A.

Lecturers :

G. H. Hardy, *Mathematics*.
 J. E. Littlewood "
 S. Chapman "
 G. I. Taylor "
 F. M. Cornford, *Classics*.
 E. Harrison "
 D. S. Robertson "
 J. McT. Ellis McTaggart, *Moral Sciences*.
 W. C. D. Whetham, *Natural Science*.
 E. D. Adrian " "
 T. C. Nicholas " "
 F. R. Tennant, *Theology*.
 H. A. Holland, *Law*.
 R. V. Lawrence, *History*.
 G. T. Lapeley "
 D. A. Winstanley "
 F. A. Simpson "
 J. R. M. Butler "

Lecturers—Continued :

- A. A. Bevan, *Oriental Languages.*
- F. J. Dykes, *Mechanical Science.*
- R. U. Southwell, *Mechanical Science.*
- D. R. Pye, *Mechanical Science.*
- D. A. Robertson, *Economics.*
- T. R. Glover, *Eccelesiastical History.*
- J. R. Tanner, *Military History.*
- J. R. Tanner, *Philosophy of Sciences.*

Emmanuel College.

Master.—Peter Giles, M.A., Litt.D.

Tutors.—

- Rev. F. W. Head, M.A., M.C.
- L. H. G. Greenwood, M.A.
- A. Wood, M.A.
- P. W. Wood, M.A.

Lecturers :

- P. W. Wood, *Mathematics.*
- L. H. G. Greenwood, *Classics.*
- F. H. Bashall, *Classics.*
- Rev. C. E. Raven, *Divinity.*
- Rev. F. W. Head, *History.*
- A. Wood, *Natural Science.*
- T. J. Hele, " "
- J. W. Lesley, " "
- E. W. Naylor, *Music.*

Sidney Sussex College.

Master.—Rev. G. A. Weekes, M.A.

Tutors.—

- Rev. G. A. Weeks, M.A.
- T. Knox-Shaw.

Lecturers :

- R. H. D. Mayall, *Mathematics.*
- T. Knox-Shaw, " "
- R. Hackforth, *Classics.*
- C. R. A. Thacker, *Natural Science.*
- B. T. D. Smith, *Theology.*
- Rev. E. J. Passant, *History.*

Downing College.

Master.—Albert Charles Seward, M.A.
F.R.S.

Tutor.—James Henry Widdicombe, M.A.

Lecturers :

- C. H. French, *Mathematics.*
- D. L. Harris, *Law.*
- Rev. E. J. Passant, *History.*
- A. J. Berry, *Chemistry and Physics.*
- J. H. Widdicombe, *Physiology.*
- H. Hamshaw Thomas, *Botany.*
- A. B. Appleton, *Human Anatomy.*
- D. Portway, *Engineering.*
- W. E. Johnson, *Moral Sciences.*
- W. S. Thatcher, *Economics.*
- A. Amos, *Agriculture.*

Selwyn College.

Master.—Rev. John Owen Farquhar
Murray, M.A., D.D.

Vice-Master.—William Edward Jordan
M.A.

Tutors.—

- Hammett Charles Knott, M.A.
- William Edward Jordan, M.A.
- Rev. Spencer Cecil Carpenter, M.A.

Lecturers :

- H. C. Knott, *Mathematics.*
- W. E. Jordan, *Classics.*
- W. N. Williams, " "
- L. A. Borradaile, *Natural Science.*
- Rev. S. C. Carpenter, *Theology.*
- Rev. F. S. Marsh, " "
- W. E. Jordan, *History.*

Fitzwilliam Hall.

Censor.—W. F. Reddaway, M.A.

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Assistant Registry.—B. Benham.

Hon. Under-Librarian.—H. T. Francis. (University Library.)

Under-Librarians.—E. J. Thomas, and A. T. Bartholomew. (University Library.)

Additional Under-Librarian.—C. E. Sayle. (University Library.)

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Assistant Director.—F. J. M. Stratton. (Solar Physics Observatory.)

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CAMBRIDGE ATHENA—A YEAR-BOOK OF THE LEARNED WORLD

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Hon. Keeper of the Music.—E. J. Dent. (Fitzwilliam Museum.)
Curator.—A. B. Cook. (Museum of Classical Archeology.)
Curator.—Baron A. von Hügel. (Museum of Archeology and of Ethnology.)
Superintendent.—C. F. Cooper. (Museum of Zoology.)
Strickland Curator.—H. Gadow.
Director of the Psychological Laboratory.—C. S. Myers.
Curator in Entomology.—H. Scott.

GIRTON COLLEGE, Cambridge. (1869.)

Terms: As Cambridge University. Students: 167.

OFFICIALS.

Mistress.—Miss K. Jex-Blake, M.A.
Vice-Mistress and Bursar.—Miss E. M. Allen, M.A.
Secretary.—M. Clover, M.A.

7 Resident Lecturers. 12 Staff Lecturers.

Degrees conferred.—At present students are not admitted to the Degrees of University of Cambridge though they are admitted to its Honours Degree Examinations and receive Certificates from the University stating the classes they have obtained.

Post-Graduate Courses.—Students can take post-graduate courses in accordance with the regulations of the University of Cambridge.

Libraries.—

Stanley Library—General.
Cowell Library—Oriental works, chiefly Sanskrit.
May Frere Library—Oriental works, Hebrew MSS., etc.
Ethel Sargant Library—Botanical works.
Blackburn Library—Relating to women's questions.
Somerville Library—Mary Somerville's Mathematical books.
Crewdson bequest of Egyptian books and antiquities.
Saumaréz Collection of Tanagre figures.

Total number of volumes, 17,195.

Librarian: Miss E. S. Fegan.

NEWNHAM COLLEGE, Cambridge. (1871.)

Terms: As Cambridge University. Students: 240.

OFFICIALS.

Principal.—Miss Stephen.
Vice-Principal.—Miss B. A. Clough.
Bursar.—Mrs. Henry Sidgwick.
Librarian.—Miss M. Fletcher.

COLLEGE LECTURERS.

A. B. Collier (Miss), <i>Mathematics.</i>	J. P. Strachey (Miss), <i>Modern Lan-</i>
J. E. Harrison (Miss), <i>Classics.</i>	M. S. Smith (Miss), <i>English. [guages.</i>
E. R. Saunders (Miss) } <i>Natural</i>	A. C. Paus (Miss) " "
G. L. Elles (Miss) } <i>Sciences.</i>	Grier (Miss), <i>Economies.</i>
J. M. W. Slater (Miss) }	2 Assistant Lecturers and 5 Associate
C. B. Firth (Miss), <i>History.</i>	Fellows.

CAMBRIDGE (Massachusetts).

HARVARD UNIVERSITY (of which Harvard College is a part), Cambridge, Mass. (1636.)

Terms: One per year—September to June.

The total number of students in the University, during the past five academic years was as follows: (1914-15) 5,699, (1915-16) 6,306, (1916-17) 6,952, (1917-18) 4,515, (1918-19) 4,891.

In the Harvard College alone the figures were as follows: (1914-15) 2,473, (1915-16) 2,519, (1916-17) 2,582, (1917-18) 1,681, (1918-19) 2,183.

OFFICIAL.

President.—Abbott Lawrence Lowell, A.B., LL.B., LL.D., Ph.D.

The Corporation, or "President and Fellows," consists of The President, the Treasurer, and Five Fellows. It is a self-perpetuating body.

The Board of Overseers consists of thirty members, elected by the alumni.

The Corporation and Board of Overseers are together known as The Governing Boards.

The various Faculties and Schools are presided over by Deans.

Degrees conferred.—A.B., S.B., A.M., S.M., E.M., M.E., S.D., Ph.D., M. Arch., M.L.A., M.F., M.B.A., Ph.D. in Business Economics, LL.B., LL.D., M.D., D.P.H., D.M.D., S.T.B., S.T.M., Th.D., Associate in Arts.

The following honorary degrees: A.M., A.D., D.D., LL.D., S.D., Litt.D.

PROFESSORS.

FACULTY OF ARTS AND SCIENCES.

Professors :

- Le Baron R. Briggs, *Rhetoric and Oratory.*
 C. R. Lanman, *Sanskrit.*
 E. L. Mark, *Anatomy.*
 E. S. Sheldon, *Romance Philology.*
 C. A. Williams, *Military Science and Tactics.*
 E. H. Hall, *Physics.*
 H. W. Smyth, *Greek Literature.*
 Hans C. G. von Jagemann, *Germanic Philology.*
 E. Channing, *Ancient and Modern History.*
 P. H. Hanus, *History and Art of Teaching.*
 F. W. Taussig, *Economics.*
 J. E. Wolff, *Petrography and Mineralogy.*
 A. B. Hart, *Science of Government.*
 A. G. McAdie, *Meteorology.*
 A. Michael, *Organic Chemistry.*
 B. Perry, *English Literature.*
 A. A. Howard, *Latin.*
 G. L. Kittredge, *English Literature.*
 C. H. Grandgent, *Romance Languages.*
 L. Wiener, *Slavic Languages and Literature.*
 H. C. Bierwirth, *German.*
 F. J. Turner, *History.*
 T. W. Richards, *Chemistry.*
 E. P. Kohler, *Chemistry.*
 W. F. Osgood, *Mathematics.*
 G. G. Wilson, *International Law.*
 G. P. Baker, *Dramatic Literature.*
 A. C. Coolidge, *History.*
 C. H. Haskins, *History.*
 B. S. Hurlbut, *English.*
 G. H. Parker, *Zoology.*
 B. L. Robinson, *Systematic Botany.*
 W. M. Wheeler, *Economic Entomology.*
 J. H. Woods, *Philosophy.*
 E. C. Jeffrey, *Plant Morphology.*

Professors—Continued :

- J. L. Lowes, *English.*
 I. Babbitt, *French Literature.*
 C. J. Bullock, *Economics.*
 W. E. Castle, *Zoology.*
 R. M. Johnston, *Modern History.*
 C. H. Moore, *Latin.*
 G. A. Reisner, *Egyptology.*
 W. H. Schofield, *Comparative Literature.*
 R. De C. Ward, *Climatology.*
 C. B. Gulick, *Greek.*
 W. Z. Ripley, *Political Economy.*
 T. N. Carver, *Political Economy.*
 R. A. Daly, *Geology.*
 C. Palache, *Mineralogy.*
 F. N. Robinson, *English.*
 C. H. C. Wright, *French Language and Literature.*
 W. Duane, *Bio-Physics.*
 O. Folin, *Biological Chemistry.*
 J. A. Walz, *German Language and Literature.*
 W. J. V. Osterhout, *Botany.*
 G. W. Pierce, *Physics.*
 J. D. M. Ford, *French and Spanish Languages.*
 C. H. Mellwain, *History and Government.*
 E. K. Rand, *Latin.*
 J. L. Coolidge, *Mathematics.*
 E. V. Huntington, *Mechanics.*
 W. B. Munro, *Municipal Government.*
 G. P. Baxter, *Chemistry.*
 G. H. Chase, *Archeology.*
 W. S. Ferguson, *Ancient History.*
 R. B. Merriman, *History.*
 R. B. Perry, *Philosophy.*
 W. W. Atwood, *Physiography.*
 R. B. Dixon, *Anthropology.*
 M. L. Fernald, *Natural History.*
 T. Lyman, *Physics.*
 C. N. Greenough, *English.*
 W. M. Persons, *Economics.*
 W. F. Dearborn, *Education.*
 E. M. East, *Experimental Plant Morphology.*

Professors—Continued:

- L. C. Graton, *Economic Geology*.
 H. A. Yeomans, *Government*.
 W. E. Hocking, *Philosophy*.
 R. I. Lee, *Hygiene*.
 H. W. Holmes, *Education*.
 P. W. Bridgman, *Physics*.
 G. D. Birkhoff, *Mathematics*.

Associate Professors:

- G. S. Raymer, *Mining*.
 C. T. Copeland, *English*.
 I. L. Winter, *Public Speaking*.
 W. R. Spalding, *Music*.
 C. L. Bouton, *Mathematics*.
 F. L. Kennedy, *Engineering Drawing*.
 H. Wilbur Rand, *Zoology*.
 P. E. Raymond, *Paleontology*.
 J. B. Woodworth, *Geology*.

Assistant Professors:

- G. E. Johnson, *Education*.
 W. G. Howard, *German*.
 K. G. T. Webster, *English*.
 E. B. Hill, *Music*.
 L. Allard, *French*.
 F. A. Saunders, *Physics*.
 G. B. Weston, *Romance Languages*.
 C. N. Jackson, *Greek and Latin*.
 R. L. Hawkins, *French*.
 W. C. Heilman, *Music*.
 A. B. Lamb, *Chemistry*.
 L. J. A. Mercier, *French*.
 A. Morize, *French Literature*.
 A. E. Norton, *Mechanical Engineering*.
 P. J. Sachs, *Fine Arts*.
 A. M. Tozzer, *Anthropology*.
 O. T. Brues, *Economic Entomology*.
 A. Pope, *Fine Arts*.
 G. S. Forbes, *Chemistry*.
 A. J. Inglis, *Education*.
 L. W. Riddle, *Cryptogamic Botany*.
 A. F. Whittam, *Romance Languages*.
 R. F. A. Hoernlé, *Philosophy*.
 G. Jones, *Chemistry*.
 C. R. Post, *Greek and Fine Arts*.
 E. E. Day, *Economics*.
 J. Ford, *Social Ethics*.
 R. K. Haek, *Classics*.
 H. S. Langfeld, *Psychology*.
 A. T. Davison, *Music*.
 A. N. Holcombe, *Government*.
 R. H. Lord, *History*.
 E. L. Chaffee, *Physics*.
 J. Klein, *Economics*.
 J. S. Davis, *Economics*.
 G. H. Edgell, *Fine Arts*.
 W. C. Granstein, *Mathematics*.
 J. B. Conant, *Chemistry*.
 15 Instructors and 4 Lecturers.

FACULTY OF MEDICINE.**Professors:**

- D. L. Edsall, *Clinical Medicine*.
 C. A. Brackett, *Oral Pathology*.
 E. H. Smith, *Clinical Dentistry*.
 W. T. Councilman, *Pathological Anatomy*.
 G. H. Monks, *Oral Surgery*.
 H. C. Ernst, *Bacteriology*.
 W. H. Potter, *Operative Dentistry*.
 W. P. Cooke, *Preventive Dentistry and Oral Hygiene*.
 A. Coolidge, *Laryngology*.
 R. W. Lovett, *Orthopedic Surgery*.
 W. T. Porter, *Comparative Physiology*.
 P. Thorndike, *Genito-Urinary Surgery*.
 M. J. Rosenau, *Preventive Medicine and Hygiene*.
 E. H. Nichols, *Clinical Surgery*.
 E. A. Crockett, *Otology*.
 J. L. Morse, *Pediatrics*.
 A. Quackenboss, *Ophthalmology*.
 C. A. Porter, *Clinical Surgery*.
 E. W. Taylor, *Neurology*.
 R. C. Cabot, *Clinical Medicine*.
 C. J. White, *Dermatology*.
 H. Cushing, *Surgery*.
 W. P. Graves, *Gynecology*.
 R. Hunt, *Pharmacology*.
 O. Folin, *Biological Chemistry*.
 F. S. Newell, *Clinical Obstetrics*.
 R. P. Strong, *Tropical Medicine*.
 H. A. Christian, *Theory and Practice of Physics*.
 W. B. Cannon, *Physiology*.
 E. E. Southard, *Neuropathology*.
 E. E. Tyzzer, *Comparative Pathology*.
 V. H. Kazanjian, *Military Oral Surgery*.

Associate Professors:

- F. B. Mallory, *Pathology*.
 J. L. Bremer, *Histology*.
 J. Warren, *Anatomy*.
 F. T. Lewis, *Embryology*.
 S. B. Wolbach, *Pathology and Bacteriology*.
 C. H. Drinker, *Applied Physiology*.

Assistant Professors:

- E. G. Brackett, *Orthopedic Surgery*.
 C. L. Seudder, *Surgery*.
 J. B. Blake, *Surgery*.
 H. A. Lothrop, *Surgery*.
 E. P. Joslin, *Medicine*.
 C. M. Smith, *Syphilology*.
 J. H. Wright, *Pathology*.
 R. B. Greenough, *Surgery*.
 H. P. Mosher, *Laryngology*.
 A. Hamilton, *Industrial Medicine*.
 W. H. Robey, jr., *Medicine*.
 F. H. Verhoeff, *Ophthalmic Research*.
 E. A. Boyden, *Comparative Anatomy*.
 E. A. Locke, *Medicine*.
 D. Cheever, *Surgery*.

Assistant Professors—Continued :

- P. G. Stiles, *Physiology*.
 C. Floyd, *Bacteriology*.
 M. Fabyan, *Comparative Pathology*.
 E. H. Place, *Pediatrics*.
 W. L. Moss, *Preventive Medicine*.
 R. R. Renshaw, *Chemical Research*.
 F. W. Peabody, *Medicine*.
 A. W. Sellards, *Tropical Medicine*.
 J. Bronfenbrenner, *Preventive Medicine and Hygiene*.
 G. R. Minot, *Medicine*.
 C. H. Fiske, *Biological Chemistry*.
 18 Instructors.

THE FACULTY OF ENGINEERING.

Professors :

- G. F. Swain, *Civil Engineering*.
 A. E. Kennelly, *Electrical Engineering*.
 H. L. Smyth, *Mining and Metallurgy*.
 H. E. Clifford, *Electrical Engineering*.
 L. J. Johnson, *Civil Engineering*.
 A. Sauveur, *Metallurgy and Metallography*.
 G. C. Whipple, *Sanitary Engineering*.
 C. A. Adams, *Electrical Engineering*.
 L. S. Marks, *Mechanical Engineering*.
 E. V. Huntington, *Mechanics*.
 H. J. Hughes, *Civil Engineering*.
 L. C. Graton, *Economic Geology*.
 H. N. Davis, *Mechanical Engineering*.

Associate Professors :

- G. S. Raymer, *Mining*.
 F. L. Kennedy, *Engineering Drawing*.

Assistant Professors :

- A. E. Norton, *Mechanical Engineering*.
 G. Jones, *Chemistry*.
 E. L. Chaffee, *Physics*.
 C. L. Dawes, *Electrical Engineering*.

THE FACULTY OF DIVINITY.

Professors :

- W. W. Fenn, *Theology*.
 G. F. Moore, *History of Religion*.
 D. G. Lyon, *Hebrew and other Oriental Languages*.
 E. C. Moore, *Theology and Christian Morals*.
 J. R. Jewett, *Arabic*.
 J. H. Ropes, *Divinity*.
 K. Lake, *Ecclesiastical History*.

Associate Professors :

- I. L. Winter, *Public Speaking*.

Assistant Professors :

- H. W. Foote, *Preaching and Parish Administration*.
 J. Ford, *Social Ethics*.
 R. F. Foerster, *Social Ethics*.

Andover Professors :

- E. Y. Hineks, *Biblical Theology*.
 J. W. Platner, *Ecclesiastical History*.

Andover Professors—Continued :

- D. Evans, *Systematic Theology*.
 W. R. Arnold, *Hebrew Language and Literature*.
 5 Assistants.

THE FACULTY OF THE EPISCOPAL THEOLOGICAL SCHOOL.

Professors :

- M. Kellner, *Literature and Interpretation of the Old Testament*.
 E. S. Drown, *Systematic Divinity*.
 H. B. Washburn, *Ecclesiastical History*.
 W. H. P. Hatch, *Literature and Interpretation of the New Testament*.

Assistant Professors :

- J. E. Addison, *Religion and Missions*.
 N. B. Nash, *New Testament*.

THE FACULTY OF ARCHITECTURE.

Professor :

- J. Sturgis Pray, *Landscape Architecture*.

Associate Professors :

- J. S. Humphreys, *Architectural Design*.
 C. W. Killam, *Architectural Construction*.

Assistant Professor :

- H. V. Hubbard, *Landscape Architecture*.
 3 Instructors.

THE FACULTY OF LAW.

Professors :

- R. Pound, *General Jurisprudence*.
 E. Wambaugh, *Law*.
 J. H. Beale, *Law*.
 S. Williston, *Law*.
 H. M. Bates, *Law*.
 E. H. Warren, *Law*.
 Joseph Warren, *Law*.
 F. Frankfurter, *Law*.
 A. W. Scott, *Law*.
 C. Chafee, *Law*.

Assistant Professor :

- M. O. Hudson, *Law*.
 F. B. Sayre, *Law*.

THE FACULTY OF BUSINESS ADMINISTRATION.

Professors :

- W. B. Bonham, *Business Economics*.
 W. M. Cole, *Accounting*.
 O. M. W. Sprague, *Banking and Finance*.
 W. J. Cunningham, *Transportation*.
 L. F. Schaub, *Commercial Law*.
 G. B. Roorbach, *Foreign Trade*.

Assistant Professors :

- R. T. Fisher, *Forestry*.
 J. M. Gries, *Lumbering*.
 M. T. Copeland, *Marketing*.
 2 Instructors and 1 Assistant.

Post-Graduate Courses.—Post-graduate instruction is given in Arts and Sciences, Architecture, Landscape Architecture, Engineering, Business Administration, Divinity, Law, Medicine, Dentistry, and in the Bussey Institution.

Institutes, Museums, Learned Societies, etc.

- Astronomical Observatory. *Director*: (Vacant).
- Blue Hill Meteorological Observatory. *Director*: A. McAdie.
- Botanic Garden. *Director*: Oakes Ames.
- Gray Herbarium. *Curator*: B. L. Robinson.
- Peabody Museum of American Archeology and Ethnology. *Director*: C. C. Willoughby.
- The University Museum. *Director*: S. Henshaw.
- Museum of Comparative Zoology. *Director*: S. Henshaw.
- Peabody Museum. *Director*: C. C. Willoughby.
- Semitic Museum. *Curator*: D. G. Lyon.
- William Hayes Fogg Museum of Art. *Director*: E. W. Forbes.
- Germanic Museum. *Curator (Hon.)*: K. Francke.
- Social Museum. *Curator*: J. Ford.
- Harvard University Press. *Director*: C. C. Lane.

The University Library contains over 1,856,900 volumes. *Director*: A. C. Coolidge.
 The main collection and 43 special libraries are housed in the Harry Elkins Widener Memorial Library building.

There are also 11 departmental libraries.

AFFILIATED INSTITUTIONS.

- Radcliffe College (for women), Cambridge, Mass.
- President.*—Le Baron R. Briggs, A.M., LL.D., Litt.D.
- Dean.*—Bertha May Moody, A.M.
- Secretary.*—Harriett D. Buckingham, A.M.

PROFESSORS ON THE ACADEMIC BOARD.

FACULTY OF ARTS.

- W. S. Ferguson, *Ancient History*.
- C. H. Grandgent, *Romance Languages*.
- G. H. Kittredge, *English Literature*.
- H. W. Smyth, *Greek Literature*.
- H. S. White, *German*.

FACULTY OF SCIENCE.

- G. P. Baxter, *Chemistry*.
- E. H. Hall, *Physics*.
- E. L. Mark, *Anatomy*.

THE EPISCOPAL THEOLOGICAL SCHOOL, Cambridge, Mass. (1867.)

Terms: Two, beginning in September and February. *Students*: 28.

Degrees conferred.—B.D., S.T.M., and D.D.

The hoods conform in pattern to the American intercollegiate system of academic costume. They are lined with white silk and have a chevron of scarlet.

PROFESSORS.

FACULTY OF DIVINITY.

Professors:

- Rev. Max Kellner, *Literature and Interpretation of the Old Testament*.
- Rev. E. S. Drown, *Systematic Divinity*.
- Rev. H. B. Washburn, *Ecclesiastical History*.

Assistant Professors:

- Rev. W. H. P. Hatch, *Literature and Interpretation of the New Testament*.
- Rev. J. T. Addison, *History of Religions and Missions*.
- Rev. N. B. Nash, *New Testament*.
- R. G. Appel, *Church Music and Public Speaking*.

Post-Graduate Courses.—Instruction is provided for students who hold the degree of B.D., and who desire to become candidates for the degree of S.T.M. The requirements for the latter degree are:

One year of residence.

The completion with credit of four full courses of an advanced character, and
 The writing of a satisfactory thesis.

Two of the courses may be taken in Harvard University.

Library.—The Wright Memorial Library. *Librarian*: Miss E. D. Fuller.

ANDOVER THEOLOGICAL SEMINARY, Cambridge, Mass. (1807.)

Affiliated with Harvard University.

Terms: Two per year—September to June.

Students: 20 *Budget*: \$45,000.

President.—J. W. Platner.

Degrees conferred.—Bachelor of Sacred Theology.

PROFESSORS.

J. W. Platner, *Church History*.

D. Evans, *Christian Theology*.

W. R. Arnold, *Hebrew*.

W. L. Sperry (Associate Professor),

Practical Theology.

2 Lecturers.

Library.—The Andover-Harvard Theological Library, about 110,000 volumes and 60,000 pamphlets. *Librarian*: Owen H. Gates.

CAPE TOWN (S. Africa).

UNIVERSITY OF CAPE TOWN, Cape Town, South Africa.

Founded as the South African College, 1829.

Incorporated as the University of Cape Town, 1918.

The work of the University is at present carried on in the buildings of the former South African College and in those occupied until 1918 by the old University of the Cape of Good Hope. There are also two large residences for men students and one for women students.

Under its Act of Incorporation the University is to be transferred to the Grootte Schuur Estate in the near vicinity of Cape Town, and the necessary buildings and residences are shortly to be erected there, the nucleus of the building fund consisting of the munificent donation amounting to £500,000 by the late Sir Julius Wernher, Bart., and Otto and Alfred Beit.

Terms: March to May (8 weeks); May to July (9 weeks); August to October (9 weeks); October to December (10 weeks).

Students: 805.

Budget: (1919) Revenue:

Government Grants	..	..	..	£31,866
Other sources	..	..	..	40,790
Total	..	..	..	£72,656

Expenditure, £74,825.

OFFICIALS.

Visitor.—His Excellency the Governor-General. P.C., G.C.M.G.

Chancellor.—H.R.H. Edward, Prince of Wales, K.G., M.C.

Vice-Chancellor.—Principal J. C. Beattie, D.Sc., F.R.S.E.

Registrar.—W. G. R. Murray, M.A.

President of Convocation.—Advocate R. W. Close, K.C., B.A., LL.B., M.L.A.

Degrees conferred.—B.A., M.A., D.Litt., D.Phil., B.Sc., M.Sc., D.Sc., LL.B., LL.M., LL.D., M.B., Ch.B., Ch.M., M.D. (Degrees are not yet given in the Faculty of Medicine.)

Hoods:

Bachelors: a black stuff or silk gown, and black silk hood lined with white silk, and edged with silk of the colour distinctive of the degree.

Masters: a black stuff or silk gown, and black silk hood lined with silk of the colour distinctive of the degree and edged with white silk.

Doctors: a scarlet cloth gown, faced with silk of the colour distinctive of the degree.

Distinctive colours: Arts, blue; Engineering, green; Law, old gold; Medicine, red.

PROFESSORS.

W. H. Bell, *Music*.
 Rev. A. P. Bender, *Hebrew*.
 J. Clark, *English*.
 P. J. du Toit, *Dutch*.
 R. Leslie, *Economics*.
 W. S. Logeman, *German*.
 R. D. Nauta, *French*.
 H. A. Reyburn, *Philosophy*.
 W. Ritchie, *Latin*.
 E. A. Walker, *History*.
 A. Ogg, *Physics*.
 A. Young, *Geology*.
 A. Brown, *Applied Mathematics*.
 R. H. Compton, *Botany*.
 L. Crawford, *Pure Mathematics*.
 J. D. F. Gilchrist, *Zoology*.

T. P. Kent, *Pure Mathematics*.
 E. Newbery, *Physical Chemistry*.
 D. Thoday, *Botany*.
 H. Tietz, *Organic Chemistry*.
 R. R. B. Howes, *Law*.
 F. Clarke, *Education*.
 J. A. Gunn, *Pharmacology*.
 M. R. Drennan, *Anatomy*.
 W. A. Jolly, *Physiology*.
 T. J. Mackie, *Bacteriology*.
 E. C. Crichton, *Obstetrics*.
 H. Bohle, *Electrotechnics*.
 A. E. Snape, *Civil Engineering*.
 D. McMillan, *Mechanical Engineering*.

50 Lecturers and Assistants.

The following chairs are at present vacant: *Greek, Inorganic Chemistry, Medicine, Surgery, Pathology.*

Post-Graduate Courses.—Courses are provided for the degrees of Master and Doctor in the Faculties of Arts, Science, Law, and Engineering.

Museums.—Bolus Herbarium and Library, bequeathed to the University in 1911 by the late Dr. Harry Bolus, F.L.S. *Curator*: Mrs. F. Bolus, B.A. Pathological Museum presented by the Government.

Library.—

University Library, about 20,000 volumes.
Librarian (Hon.): Prof. W. S. Logeman, L.H.C.
Librarian's Assistant: S. L. Harvey.

SOUTH AFRICAN MUSEUM, Cape Town.

The Museum was incorporated by Act of Parliament in 1857. It includes an Annexo—the Koopmans de Wet House—which is devoted to the display of articles in use by Colonists between the time of the first occupation of the Cape by the Dutch and the year 1830. The Museum itself is a Natural History Museum, and issues a publication, *Annals of the South African Museum*, which is devoted to original papers on Zoology, Botany, Geology, Paleontology, Anthropology, and Early Colonial History, and appears in parts. Eleven complete volumes have been issued, and six others are nearly completed.

OFFICIALS.

Director.—L. Peringuey, D.Sc., F.E.S., F.Z.S.
Assistant Director, in charge of Paleontological Collections.—S. H. Haughton, B.A., F.G.S.
Hon. Curator of Geological Collections.—A. L. Hall, B.A., F.G.S.
Hon. Curator of Koopman de Wet House.—W. F. Purcell, Ph.D.
Assistant in charge of Marine Zoological Collections.—K. H. Barnard, M.A.
Assistant in Charge of Land Invertebrates.—R. W. E. Tucker, B.A.
Clerk and Librarian.—R. M. Lightfoot, F.E.S.

ROYAL OBSERVATORY, Cape of Good Hope, Cape Town, S. Africa. (1820.)

Budget: £9,885.

H.M. Astronomer.—S. S. Hough, M.A., F.R.S.
Chief Assistant.—J. K. E. Halm.
Secretary.—A. Pilling.
 4 Assistants and 7 junior Assistants.

LEARNED SOCIETIES, ETC.

The Van Riebeeck Society for the publication of South African Historical Documents. (1918.)

President.—Rt. Hon. J. X. Merriman, M.L.A., P.C., LL.D.
Secretary and Treasurer.—A. C. G. Lloyd, B.A.

Publishes Annual Volume.

CARDIFF ("PRIFYSGOL CYMRU").**THE UNIVERSITY OF WALES**, Cardiff, Wales. (1893.)*Students* (1918-19): About 1,600.

OFFICIALS.

Chancellor.—H.M. The King.*Deputy Chancellors*.—

The Right Hon. The Lord Keynon, K.C.V.O.

Major David Davies, M.A., M.P., LL.D.

Vice-Chancellor.—Principle Sir H. R. Reichel, M.A., LL.D.*Warden of the Guild of Graduates*.—Prof. Sir J. Morris Jones, M.A.*Treasurer*.—T. Tolin, M.A., J.P.*Dean of Divinity*.—Principle O. Pyrs, M.A.*Registrar*.—J. M. Angus, M.A.**Degrees conferred**.—B.A., M.A., D.Litt., D.Phil., B.Sc., M.Sc., D.Sc., B.Mus., M.Mus., D.Mus., LL.B., LL.M., LL.D., B.D., D.D., M.B., B.Ch., M.Ch., M.D.

Bachelors' Hoods are of the Oxford form; Masters' and Doctors' Hoods are of the Cambridge form. Bachelors' Hoods are made of black stuff or silk, except in the Faculty of Music in which the Hoods are made of dark blue silk. Masters' Hoods are made of black silk, and Doctors' Hoods of scarlet cloth. Bachelors' Hoods are bordered, and Masters' and Doctors' Hoods lined with silk of the colours proper to their respective Faculties.

The colours proper to the respective Faculties are:

The Faculty of Arts: Mazarin blue shot with green.

The Faculty of Science: Bronze colour (yellow shot with black).

The Faculty of Music: Pear colour (a shot silk of three hues).

The Faculty of Law: Red shot with purple.

The Faculty of Theology: Mazarin blue shot with red.

The Faculty of Medicine: Green shot with black, edged with white.

Professors.—The University has no teaching staff. The teaching is done by the Staffs of the Constituent Colleges.

Libraries.—The University has no Library. The Colleges have their Libraries separately.

AFFILIATED INSTITUTIONS.

The University is a federal University made up of the Constituent (University) Colleges at Aberystwyth, Bangor and Cardiff. The addition of another Constituent College at Swansea is under consideration. In the Faculty of Theology, which the Constituent Colleges are precluded by their Charters from teaching, the following Theological Colleges are Associated Colleges: The Theological College, Aberystwyth; The Theological College, Bala; The Memorial College, Brecon; The Joint School of Theological Studies, Bangor; The Presbyterian College, Carmarthen; The Baptist College, Cardiff.

THE UNIVERSITY COLLEGE OF SOUTH WALES AND MONMOUTHSHIRE.

Cathays Park and Newport Road, Cardiff. (1884.)

Terms: Three per year.*Students* (1919): 835.*Budget*:

Income	£28,786 2s. 11d.
Expenditure	£32,561 10s. 8d.

OFFICIALS.

Principal.—A. H. Trow, D.Se., F.L.S.*President*.—The Right Hon. Lord Glanely.*Vice-Presidents*.—

The Right Hon. Lord Aberdare.

The Right Hon. Lord Pontypridd.

The Right Hon. The Earl of Plymouth.

Treasurer.—Alderman Herbert M. Thorpson, M.A.*Registrar*.—D. J. A. Brown.**Degrees and Hoods**.—The Degrees and Hoods of the University of Wales.

PROFESSORS.

F. Bacon, <i>Engineering.</i>	H. Littledale, <i>English Language and Literature.</i>
Paul Barbier, <i>French.</i>	G. Norwood, <i>Greek.</i>
H. Bruce, <i>History.</i>	W. N. Parker, <i>Zoology.</i>
A. H. Cox, <i>Geology.</i>	W. Phillips, <i>Education.</i>
E. Emrys - Roberts, <i>Pathology and Bacteriology.</i>	R. H. Pinkerton, <i>Pure and Applied Mathematics.</i>
David Evans, <i>Music.</i>	A. A. Read, <i>Metallurgy.</i>
B. Foxley (Miss), <i>Elementary Training Department (Women).</i>	W. J. Roberts, <i>Economics and Political Science.</i>
W. J. Gruffydd, <i>Celtic.</i>	A. L. Selby, <i>Physics.</i>
J. B. Baycraft, <i>Physiology.</i>	C. M. Thompson, <i>Chemistry.</i>
D. Hepburn, <i>Anatomy.</i>	R. C. McLean, <i>Botany.</i>
H. J. W. Hetherington, <i>Logic and Philosophy.</i>	G. A. T. Davies, <i>Latin.</i>

33 Lecturers.

Post-Graduate Courses.—Provision is made for Research in practically all departments, and aid is specially encouraged by means of College Scholarships and University Post-Graduate Studentships and Fellowships.

Librarian : S. O. Moffet, M.A. *Assistant Librarian* : Miss G. Mughes.

AFFILIATED INSTITUTIONS.

There are Joint Diploma Courses with:
 The Technical College, Cardiff, and
 The South Wales and Monmouthshire School of Mines, Treforest.

THE CARDIFF MEDICAL SOCIETY, Y.M.C.A. Buildings, Queen Street, Cardiff.

President.—W. Sheen.
Vice-Presidents.—W. Mitchell Stevens, F. P. S. Cresswell.
Treasurer.—D. R. Paterson.
Librarian.—Herbert T. Evans.
Secretaries.—Eric Evans, J. O. D. Wade.

CASE SCHOOL OF APPLIED SCIENCE. See CLEVELAND.

CAWNPORE.

CHRIST CHURCH COLLEGE, Cawnpore.

Affiliated to the University of Allahabad.

Terms : July to April. *Students* : 150.

OFFICIALS.

Principal.—Rev. M. S. Douglas, M.A.
Vice-Principal.—Rev. E. W. Ormerod, M.A.
 8 Lecturers.

Post-Graduate Courses in Philosophy for the M.A. degree.

Library.—The College Library is under the charge of Mr. S. C. Chatterji.

CHAPEL HILL (N. Carolina).

THE UNIVERSITY OF NORTH CAROLINA, Chapel Hill, North Carolina. (1789.)

Terms : Three terms of 11 weeks each, and one of 6 weeks.
Students : 1,600. *Budget* : \$350,000.

OFFICIALS.

President.—Harry W. Chase, Ph.D.
Registrar.—Thomas J. Wilson, jr., Ph.D.

Degrees conferred.—A.B., S.B., A.B., LL.B., S.B. in Med., Ph.G., Ph.C., P.D. A.M., S.M., Ph.D. (All these are degrees in course). **Honorary.**—LL.D., D.D., L.H.D.

PROFESSORS.

COLLEGE OF LIBERAL ARTS.

- W. D. Toy, *German*.
 H. H. Williams, *Philosophy*.
 G. Howe, *Latin*.
 C. L. Raper, *Economics*.
 J. G. de R. Hamilton, *History*.
 H. McG. Wagstaff, *History*.
 W. M. Dey, *Romance Languages*.
 E. Greenlaw, *English*.
 E. C. Branson, *Rural Economics and Sociology*.
 F. H. Koch, *Dramatic Literature*.
 D. De Witt Carroll, *Economics*.
 W. S. Bernard, *Greek*.
 G. McF. McKie, *Public Speaking*.
 J. M. Booker, *English*.
 O. Towles, *Romance Languages*.
 K. J. Brown, *German*.
 N. Foerster, *English*.
 J. H. Hanford, *English*.
 W. W. Pierson, *History*.
 S. E. Leavitt, *Romance Languages*.
 N. M. Paull, *Drawing*.
 G. K. G. Henry, *Latin*.
 H. McC. Dargan, *English*.
 C. A. Hibbard, *English*.
 G. A. Harrer, *Latin*.
 H. Staab, *Romance Languages*.
 F. P. Graham, *History*.
 R. B. Cowin, *Accounting*.
 P. J. Weaver, *Music*.

SCHOOL OF SCIENCE.

- F. P. Venable, *Chemistry*.
 W. Cain, *Mathematics*.
 H. Van P. Wilson, *Zoology*.
 C. Cobb, *Geology and Mineralogy*.
 J. H. Pratt, *Economic Geology*.
 W. C. Coker, *Botany*.
 A. Henderson, *Pure Mathematics*.

School of Science—Continued:

- A. H. Patterson, *Physics*.
 J. F. Dashiell, *Psychology*.
 A. S. Wheeler, *Organic Chemistry*.
 J. M. Bell, *Physical Chemistry*.
 W. F. Prouty, *Geology*.
 J. T. Dobbins, *Chemistry*.
 J. W. Lasley, *Mathematics*.
 W. W. Rankin, *Mathematics*.
 A. W. Hobbs, *Mathematics*.

SCHOOL OF APPLIED SCIENCE.

- (Vacant), *Civil Engineering*.
 P. H. Daggott, *Electrical Engineering*.
 J. H. Mustard, *Electrical Engineering*.
 J. E. Lear, *Engineering Science*.
 T. F. Hickerson, *Civil Engineering*.
 T. Saville, *Sanitary Engineering*.

SCHOOLS OF MEDICINE AND PHARMACY.

- C. S. Mangum, *Anatomy*.
 E. V. Howell, *Pharmacy*.
 I. H. Manning, *Physiology*.
 W. De B. MacNider, *Pharmacology*.
 J. B. Bullitt, *Histology and Pathology*.
 B. R. Lawson, *Anatomy*.
 J. G. Beard, *Pharmacy*.

SCHOOL OF LAW.

- P. H. Winston, *Law*.
 L. P. McGehee, *Law*.
 A. C. McIntosh, *Law*.
 O. O. Eford, *Law*.

SCHOOL OF EDUCATION.

- M. C. S. Noble, *Pedagogy*.
 N. W. Walker, *Secondary Education*.
 L. A. Williams, *School Administration*.
 E. W. Knight, *Rural Education*.
 17 Instructors.

Post-Graduate Courses leading to the degrees of A.M., S.M., Ph.D., Ph.C., and P.D. are offered.

Institutes and Learned Societies.—

- The Elisha Mitchell Scientific Society.
 The North Carolina Historical Society.
 The Philological Club.
 American Institute of Electrical Engineers (The University of North Carolina Branch).

Library.—The University Library. Librarian: L. R. Wilson, Ph.D.

CHARLOTTESVILLE (Virginia).

UNIVERSITY OF VIRGINIA. No particulars received.

CHARTERS TOWERS (Queensland).

CHARTERS TOWERS SCHOOL OF MINES, Charters Towers, Queensland. (1901.)

The School is a sub-department of the Department of Mines, and is entirely a Government institution; the Director being responsible to the Under-Secretary for Mines (resident in Brisbane).

A public Assay Laboratory is connected with the School. In this assays for prospectors are made free of charge.

Terms : Three per year. *Students* : Varies between 40 and 120.

Budget : £3,000 to £4,000 per annum supplied by the Department of Mines of Queensland.

OFFICIALS.

Director.—H. I. McGilhiray, M.A.

Secretary.—J. F. Horrigan.

Degrees conferred.—The Diplomas in Mining Engineering and Metallurgical Engineering (Associate Courses), Metallurgical Chemistry and Assaying, and Mining Surveying.

LECTURERS.

H. I. McGilhiray, *Geology, Mineralogy, and Mining Geology.*

J. D. Cunningham, *Mining, Ore Dressing, Surveying, and Mechanical Drawing.*

J. A. Hughes, *Chemistry, Metallurgy, and Assaying.*

A. R. Wright, *Physics, Mechanics, Mechanical and Electrical Engineering.*

1 Assistant Lecturer, 1 Demonstrator, 1 Assayer.

Post-Graduate Course.—A course in steel analysis is taken as required.

Library.—The School Library also serves as a reference library for the City of Charters Towers. *Librarian* : J. R. Horrigan.

CHICAGO (Illinois).

THE UNIVERSITY OF CHICAGO, Chicago, Illinois. (1891.)

Terms : Three per year.

Students : 6,248 (1917-18.)

Budget : \$2,100,912. 16. (1917-18.)

OFFICIALS.

President.—Harry Pratt Judson.

Recorder and Examiner.—Walter A. Payne.

Secretary to the President.—David A. Robertson.

Secretary of the Board Trustees.—J. Spencer Dickerson.

Counsel and Business Manager.—Wallace Heckman.

Auditor.—Trevor Arnett.

Director of the University Libraries.—Ernest DeWitt Burton.

Dean of the Faculties of Arts, Literature, and Science.—J. Rowland Angell.

Dean of the Divinity School.—Shailer Mathews.

Dean of the Law School.—J. Parker Hall.

Dean of the Medical Students.—J. Milton Dodson.

Dean of the Graduate School of Arts, Literature, and Science.—Albion W. Small.

Dean of the Junior Colleges.—Robert Morss Lovett.

Director of School of Education.—Chas. H. Judd.

Dean of School of Commerce and Administration.—Leon C. Marshall.

Dean of Ogden Graduate School of Science.—Rollin D. Salisbury.

Degrees conferred.—A.B., Ph.B., S.B., A.B. in Education, Ph.B. in Education, S.B. in Education, LL.B., J.D., B.D., M.D., A.M., S.M., Ph.D.

Hoods : Black with maroon lining, given with Ph.D. degree only.

PROFESSORS.

FACULTY OF ARTS, LITERATURE AND, SCIENCE.

Professors :

- J. R. Angell, *Psychology*.
 E. E. Barnard, *Astronomy*.
 H. H. Barrows, *Geography*.
 C. R. Baskerville, *English*.
 E. S. Bastin, *Economic Geology*.
 C. H. Beeson, *Latin*.
 G. A. Bliss, *Mathematics*.
 R. J. Bonner, *Greek*.
 J. H. Breasted, *Egyptology and Oriental History*.
 C. D. Buck, *Comparative Philology*.
 T. C. Chamberlain, *Geology and Paleontology*.
 C. M. Child, *Zoology*.
 A. Coleman, *French*.
 J. M. Coulter, *Botany*.
 H. C. Cowles, *Plant Ecology*.
 S. W. Cutting, *Germanic Languages and Literatures*.
 E. P. Dargan, *French Literature*.
 L. E. Dickson, *Mathematics*.
 W. E. Dodd, *American History*.
 Ellsworth Faris, *Sociology*.
 J. A. Field, *Political Economy*.
 E. B. Frost, *Astrophysics*.
 H. G. Gale, *Physics*.
 J. P. Goode, *Geography*.
 G. E. Hale, *Astrophysics*.
 W. D. Harkins, *Chemistry*.
 R. Herriek, *English*.
 T. A. Jenkin, *History of the French Language*.
 A. Jonannsen, *Petrology*.
 G. J. Laing, *Latin*.
 F. R. Lillie, *Zoology*.
 J. W. Linn, *English*.
 R. M. Lovett, *English*.
 J. M. Manly, *English*.
 H. E. Marr (Colonel), *Military Science and Tactics*.
 G. H. Mead, *Philosophy*.
 C. E. Merriam, *Political Science*.
 E. T. Merrill, *Latin*.
 A. A. Michelson, *Physics*.
 F. J. Miller, *Latin*.
 R. A. Millikan, *Physics*.
 H. A. Millis, *Political Economy*.
 A. W. Moore, *Philosophy*.
 E. H. Moore, *Mathematics*.
 F. R. Moulton, *Astronomy*. [omy.
 G. W. Myers, *Mathematics and Astronomy*.
 W. D. MacClintock, *English Literature*.
 A. C. McLaughlin, *History*.
 H. H. Newman, *Zoology and Embryology*.
 W. A. Nitze, *Romance Languages and Literature*.
 G. T. Northup, *Spanish Literature*.

Associate Professors :

- K. Pietsch, *Romance Philology*.
 H. W. Prescott, *Classical Philology*.
 I. M. Price, *Semitic Languages and Literature*.
 C. Read, *History*.
 M. Reynolds (Miss), *English Literature*.
 R. D. Salisbury, *Geographic Geology*.
 F. Sehevill, *Modern History*.
 M. Schutze, *German Literature*.
 P. Shorey, *Greek*.
 H. E. Slaught, *Mathematics*.
 A. W. Small, *Sociology*.
 A. A. Stagg, *Physical Culture*.
 J. Stieglitz, *Chemistry*.
 M. Talbot (Miss), *Household Administration*.
 B. F. Terry, *English History*.
 J. W. Thompson, *Medieval History*.
 A. H. Tolman, *English Literature*.
 J. H. Tufts, *Philosophy*.
 S. Weller, *Paleontologic Geology*.
 E. J. Wilczynski, *Mathematics*.
 E. H. Wilkins, *Romance Languages*.
 W. C. Wilkinson, *Poetry and Criticism*.
 F. A. Wood, *Germanic Philology*.
 C. W. Wright, *Political Economy*.
 T. Iyenaga, *Political Science*.
 L. Taft, *History of Art*.
 P. S. Allen, *German Literature*.
 E. S. Ames, *Philosophy*.
 S. E. W. Bedford, *Sociology*.
 K. Blunt (Miss), *Food Chemistry, Home Economics*.
 P. H. Boynton, *English*.
 H. A. Carr, *Psychology*.
 C. F. Castle, *Greek*.
 R. T. Chamberlin, *Geology*.
 J. M. Clark, *Political Economy*.
 S. H. Clark, *Public Speaking*.
 W. E. Clark, *Sanskrit and Indo-European Comparative Philology*.
 W. Crocker, *Plant Physiology*.
 T. P. Cross, *English and Celtic*.
 H. C. E. David, *French Literature*.
 W. F. Dodd, *Political Science*.
 G. Dudley (Miss), *Physical Culture*.
 E. F. Flint (Mrs.), *English*.
 C. Goettsch, *Germanic Philology*.
 G. C. Howland, *History of Literature*.
 M. W. Jernegan, *History*.
 W. J. G. Land, *Botany*.
 K. Laves, *Astronomy*.
 A. C. Lunn, *Applied Mathematics*.
 W. D. MacMillan, *Astronomy*.
 G. L. Marsh, *English*.
 H. G. Moulton, *Political Economy*.
 J. A. Parkhurst, *Practical Astronomy*.
 D. B. Reed, *Physical Culture*.
 D. A. Robertson, *English*.
 H. I. Schlesinger, *Chemistry*.

Associate Professors—Continued :

- F. Starr, *Anthropology*.
 E. Wallace (Miss), *French Literature*.
 J. W. A. Young, *Pedagogy of Mathematics*.

Assistant Professors :

- R. Altrocchi, *Romance Languages*.
 S. B. Barrett, *Astrophysics*.
 G. Van Biesbroeck, *Astronomy*.
 S. P. Breckinridge (Miss), *Social Economy*.
 J. H. Bretz, *Geology*.
 E. W. Burgess, *Sociology*.
 C. C. Colby, *Geography*.
 J. W. E. Glattfeld, *Chemistry*.
 C. N. Gould, *German and Scandinavian Literature*.
 H. E. Gronow, *German*.
 S. N. Harper, *Russian Language and Institutions*.
 J. R. Hulbert, *English*.
 C. F. Huth, *History*.
 W. D. Jones, *Geography*.
 L. I. Knight, *Botany*.
 T. A. Knott, *English*.
 J. J. Meyer, *German*.
 T. L. Neff, *French*.
 B. C. Nelson, *Public Speaking*.
 A. C. Noe, *German Literature*.
 C. E. Parmenter, *Romance*.
 E. M. Terry (Miss), *Chemistry*.
 G. L. Wendt, *Chemistry*.
 N. W. Barnes, *Political Economy*.
 W. J. Crozier, *Zoology*.
 A. J. Dempster, *Physics*.
 G. D. Fuller, *Botany*.
 Carl H. Grabo, *English*.
 H. B. Lemon, *Physics*.
 J. C. Lewis (Major), *Military Science and Tactics*.
 I. J. Lingle, *Physiology*.
 B. H. Nicolet, *Chemistry*.
 F. L. Schoell, *Romance*.
 A. P. Scott, *History*.
 G. W. Sherburn, *English*.
 W. H. Spencer, *Business Law*.
 D. H. Stevens, *English*.
 G. Van Biesbroeck, *Practical Astronomy*.
 P. T. Vance (Captain), *Military Science and Tactics*.
 J. Viner, *Political Economy*.
 R. T. Wiltbank, *Psychology*.

SCHOOL OF MEDICINE.

Professors :

- R. R. Bensley, *Anatomy*.
 F. Billings, *Medicine*.
 A. J. Carlson, *Physiology*.
 B. C. H. Harvey, *Anatomy*.
 L. Hektoen, *Pathology*.
 C. J. Herrick, *Neurology*.
 E. O. Jordan, *Bacteriology*.

Professors—Continued :

- P. Kyes, *Preventive Medicine*.
 D. D. Lewis, *Surgery*.
 H. G. Wells, *Pathology*.
 A. D. Bevan, *Surgery*.
 J. M. Dodson, *Medicine*.
 W. S. Haines, *Toxicology*.

Associate Professors :

- F. C. Koch, *Physiological Chemistry*.
 A. B. Luckhardt, *Physiology*.

Assistant Professors :

- G. W. Bartelmez, *Anatomy*.
 E. Clark, *Anatomy*.
 L. M. De Witt (Mrs.), *Pathology*.
 K. K. Koessler, *Experimental Medicine*.
 J. F. Norton, *Bacteriology*.
 C. H. Swift, *Anatomy*.
 S. Tashiro, *Physiological Chemistry*.
 A. L. Tatum, *Pharmacology and Physiology*.

DIVINITY SCHOOL.

Professors :

- E. D. Burton, *New Testament and Early Christian Literature*.
 S. J. Case, *Early Church History and New Testament Interpretation*.
 E. J. Goodspeed, *Biblical and Patristic Greek*.
 F. W. Gunsaulus, *Practical Theology*.
 E. G. Hirsch, *Rabbinical Literature and Philosophy*.
 S. Mathews, *Historical and Comparative Theology*.
 G. B. Smith, *Christian Theology*.
 J. M. P. Smith, *Old Testament Language and Literature*.
 T. G. Soares, *Homiletics and Religious Education*.
 C. W. Votaw, *Biblical Greek*.
 H. L. Willett, *Semitic Languages and Literatures*.

Associate Professors :

- J. M. Artman, *Religious Education*.
 D. D. Luckenbill, *Oriental Languages and Literatures*.

Assistant Professors :

- F. M. Blanchard, *Public Speaking*.
 P. G. Mode, *Church History*.
 F. Merrifield, *New Testament History and Interpretation*.
 M. Sprengling, *Semitic Languages and Literatures*.

SCHOOL OF LAW.

Professors :

- H. P. Judson, *International Law and Diplomacy*.
 H. A. Bigelow, *Law*.
 E. Freund, *Jurisprudence and Public Law*.
 J. P. Hall, *Law*.

Professors—Continued :

- E. W. Hinton, *Law*.
 J. W. Mack, *Law*.
 F. R. Mechem, *Law*.
 H. Oliphant, *Law*.
 F. C. Woodward, *Law*.

SCHOOL OF EDUCATION.

Professors :

- R. M. Tryon, *Teaching of History*.
 N. Butler, *Education*.
 C. H. Judd, *Education*.
 H. C. Morrison, *School Administration*.
 S. C. Parker, *Education*.
 W. Sargent, *Art Education*.

Associate Professors :

- Z. Baber (Miss), *Geography and Geology*.
 E. R. Downing, *Natural Science*.
 F. N. Freeman, *Educational Psychology*.
 W. S. Gray, *Education*.
 R. L. Lyman, *Teaching of English*.
 H. O. Rugg, *Education*.
 J. F. Bobbitt, *School Administration*.

Assistant Professors :

- F. S. Breed, *Education*.
 C. C. Colburn (Miss), *Institution Economics*.
 A. Temple (Miss), *Kindergarten Education*.
 W. G. Whitford, *Esthetic and Industrial Education*.
 E. T. Filby, *Industrial Education*.
 M. F. McAuley (Miss), *Institution Economics*.
 Lydia J. Roberts (Miss), *Home Economics*.
 M. B. Trilling (Miss), *Home Economics*.

SCHOOL OF COMMERCE AND ADMINISTRATION.

Professors :

- L. C. Marshall, *Political Economy*.
 G. E. Frazer, *Accounting*.

Assistant Professors :

- N. W. Barnes, *Commercial Organization*.
 C. S. Duncan, *Commercial Organization*.

Post-Graduate Courses.—The Graduate Schools of Arts, Literature, and Science afford courses of instruction leading to the degree of Master of Arts or of Science, and to the Degree of Doctor of Philosophy.

In the Graduate School of Arts and Literature are the advanced courses offered by the Departments of Philosophy, Psychology, Education, Political Economy, Commerce and Administration, Political Science, History, Sociology and Anthropology, Household Administration, the Oriental Languages and Literatures, New Testament and Early Christian Literature, Comparative Philology, the Greek Language and Literature, the Latin Language and Literature, the Romance Languages and Literatures, the Germanic Languages and Literatures, English and General Literature.

In the Ogden Graduate School of Science are the advanced courses offered by the Departments of Mathematics, Astronomy and Astrophysics, Physics, Chemistry, Geology and Paleontology, Geography, Zoology, Anatomy, Physiology, Physiological Chemistry and Pharmacology, Botany, Pathology, and Hygiene and Bacteriology.

Museums.—

The Walker and Julius Rosenwald Museums (Geology, Mineralogy, Anthropology and Paleontology).

The Haskell Oriental Museum (Biblical, Comparative Religion, Assyrian and Egyptian collections). *Director* : J. H. Breasted, Ph.D.

Libraries.—

William Rainey Harper Memorial Library Building.
 The General Library.
 Departmental and Professional Libraries.

The Libraries contain 545,890 books and about 200,000 pamphlets. *Director* : E. De Witt Burton. *Associate Director* : James C. M. Hanson.

NORTH WESTERN UNIVERSITY. No particulars received.

RUSH MEDICAL COLLEGE. No particulars received.

COLLEGE OF PHYSICIANS AND SURGEONS. See URBANA, UNIVERSITY OF (ILLINOIS).

CENTRAL STATES COLLEGE OF PHARMACY, Chicago, Illinois. (1908.)

Terms: Three per year. *Students:* 100.

OFFICIALS.

President.—George Louis Secord.
Dean.—Roland Hodge Phillips.
Secretary.—Walther F. von Zelinski.
Registrar.—Grace Ward Secord.
President of Board of Trustees.—J. De Witte Leek.

PROFESSORS.

G. L. Secord.	Thomas A. Carter.
R. H. Phillips.	G. Ward Secord (Mrs.).
W. F. von Zelinski.	H. A. Caperton.
B. H. Rouse.	J. F. Forbes.
A. W. Wheeler.	4 Special Lecturers.

College Library of about 400 volumes.

ARMOUR INSTITUTE OF TECHNOLOGY. No particulars received.

ART INSTITUTE OF CHICAGO, Michigan Avenue, Chicago. (1879.)

The Art Institute School, the largest in America, holds day, evening, and Saturday classes. Juvenile Classes are held each Saturday.

Terms: Three per year. *Students:* 2,041.

OFFICIALS.

President.—Charles L. Hutcheson.
Vice-Presidents.—Martin A. Ryerson, Frank G. Logan.
Treasurer.—Ernest A. Hamill.
Secretary.—William F. Tuttle.
Director of Museum and School.—George W. Eggers.
Registrar.—Fanny J Kendall.
Librarian.—Sarah L. Mitchell.
Head of Design Department.—Hermann Rosse.
Head of Normal Department.—Jeannette Buckley.
Head of Sculpture Department.—Albin Polasek.
Heads of Painting Department.—Ralph Clarkson, Karl A. Bucher, Wellington Reynolds.
Heads of Illustration Department.—De Forrest Sehook, Allen E. Philbrick, Richard E. Babcock.
Head of Mural Decoration Department.—John N. Norton.

Certificate of attainment given at the completion of a 3 years' course. School Museum in school building.

Libraries.—

The Ryerson Library of the Art Institute of Chicago (1879) is devoted to works on fine art. It contains 13,000 volumes, collections of 36,500 photographs, and 19,180 lantern slides.

The Burnham Library, kept in the Ryerson Library, contains 2,400 volumes. The Library is open daily from 9 to 5, Sundays from 2 to 8, with an attendance for the year 1918 of 62,694 students and consulting visitors.

FIELD MUSEUM OF NATURAL HISTORY, Chicago, Illinois. (1894.)

OFFICIALS.

Director.—Frederick J. V. Skiff.
Recorder.—D. C. Davies.

Department of Anthropology.

Curator.—Berthold Laufer.
Assistant Curator Physical Anthropology and Malayan Ethnology.—Fay Cooper Cole.
Assistant Curator of African and Melanesian Ethnology.—Albert B. Lewis.
Assistant Curator of Mexican and South American Archeology.—J. Alden Mason.
Assistant Curator of Japanese Ethnology.—Helen C. Gunsaulus.

Department of Botany.

Curator.—Charles F. Millsbaugh.
Assistant Curator Economic Botany.—B. E. Dahlgren.

Department of Geology.

Curator.—Oliver C. Farrington.
Assistant Curator.—H. W. Nichols.
Assistant Curator of Paleontology.—Elmer S. Riggs.

Department of Zoology.

Curator.—Charles B. Cory.
Assistant Curator of Mammalogy and Ornithology.—W. H. Osgood.
Assistant Curator Division of Entomology.—W. J. Gerhard.
Assistant Curator Division of Osteology.—E. N. Gueret.
Assistant Curator Division of Ichthyology and Herpetology.—Carl L. Hubbs.
Assistant Curator Division of Oology.—R. Magoon Barnes.

Library, 50,000 volumes. *Librarian:* Elsie Lippincott.

CHRISTCHURCH (New Zealand).

CANTERBURY COLLEGE, Christchurch, New Zealand. (1873.)

An affiliated Institution of New Zealand University (*q.v.*).

Terms: Three a year.

OFFICIALS. See **NEW ZEALAND UNIVERSITY.**

Degrees conferred. See **NEW ZEALAND UNIVERSITY.**

PROFESSORS.

Professors:

H. Stewart, *Classics.* [*Philosophy.*
 J. P. Gabbutt, *Mathematics and Natural*
 W. P. Evans, *Chemistry.*
 R. J. Scott, *Engineering.*
 T. G. R. Blunt, *Modern Languages.*
 C. Chilton, *Biology.* [*ture.*
 A. Wall, *English Languages and Litera-*
 J. Hight, *Economics and History.*
 C. C. Farr, *Physics.*
 C. F. Salmond, *Mental and Moral*
Philosophy.

Lecturers:

R. Speight, *Geology, Palcontology and*
Physical Geography.
 T. A. Murphy, *Jurisprudence and Law.*
 J. C. Bradshaw, *Music.*
 T. S. Foster, *Education.*
 P. H. Powell, *Electrical Engineering.*
 W. F. Robinson, *Surveying, Borough*
Engineering, and Building Con-
struction.
 S. Steele, *Mechanical Engineering.*
 7 Assistants, 5 Demonstrators.

CINCINNATI (Ohio).

UNIVERSITY OF CINCINNATI. No particulars received.

CLEMSON COLLEGE (S. Carolina).

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—H. W. Barre.

CLEVELAND (Ohio).

WESTERN RESERVE UNIVERSITY, Cleveland, Ohio. (1826.)

The School of Medicine and the School of Law are graduate schools, a somewhat unique condition in American professional schools.

Terms: Two semesters per year. *Students:* 4,145.

Budget: \$600,000.

OFFICIALS.

President.—Charles F. Thwing, D.D., LL.D., Litt.D.
Vice-President of Western Reserve University.—Samuel Mather, A.M., LL.D.
Vice-President of Adelbert College of Western Reserve University.—James D. Williamson,
 A.M., D.D.
Secretary and Treasurer.—Sidney S. Wilson, A.B.
Executive Secretary.—Ralph W. Bell, A.B.

Degrees conferred.—A.B., A.M., B.S., A.M. in Medicine, LL.B., Ph.C., M.D., Doctor
 of Dental Surgery, Graduate in Pharmacy

PROFESSORS.

SCHOOL OF MEDICINE.

Professors :

- G. C. Ashmun, *Medical Jurisprudence and Medical Ethics.*
 W. T. Corlett, *Dermatology.*
 W. E. Bruner, *Ophthalmology.*
 F. E. Bunts, *Principles of Surgery and Clinical Surgery.*
 G. W. Crile, *Surgery.*
 H. J. Gerstenberger, *Pediatrics.*
 C. A. Hamann (Dean), *Applied Anatomy and Clinical Surgery.*
 C. F. Hoover, *Medicine.*
 W. H. Humiston, *Gynecology.*
 H. T. Karsner, *Pathology.*
 R. G. Perkins, *Hygiene and Preventive Medicine.*
 J. P. Sawyer, *Therapeutics and Clinical Medicine.*
 T. Sollmann, *Pharmacology and Materia Medica.*
 G. N. Stewart, *Experimental Medicine.*
 T. W. Todd, *Anatomy.*
 F. C. Waite, *Histology and Embryology.*
 C. J. Wiggers, *Physiology.*

Associate Professors :

- A. H. Bill, *Obstetrics.*
 C. E. Briggs, *Surgery.*
 E. P. Carter, *Medicine.*
 N. W. Ingalls, *Anatomy.*
 J. M. Ingersoll, *Otology, Rhinology, and Laryngology.*
 L. W. Ladd, *Clinical Microscopy.*
 J. N. Lenker, *Otology, Rhinology, and Laryngology.*
 W. E. Lower, *Genito-Urinary Surgery.*
 D. Marine, *Experimental Medicine.*
 R. E. Skeel, *Gynecology.*

Assistant Professors :

- H. A. Becker, *Surgery.*
 H. N. Cole, *Dermatology.*
 C. L. Cummer, *Clinical Microscopy.*
 J. Farnsworth, *Obstetrics.*
 P. J. Hanzlik, *Pharmacology.*
 G. E. Harmon, *Hygiene and Bacteriology.*
 J. L. Morris, *Biochemistry.*
 B. M. Patten, *Histology and Embryology.*
 J. Phillips, *Medicine.*
 E. L. Porter, *Physiology.*
 J. M. Rogoff, *Experimental Medicine.*
 A. J. Skeel, *Obstetrics.*
 M. D. Stepp, *Surgery.*
 C. W. Stone, *Nervous Diseases.*
 J. J. Thomas, *Obstetrics.*
 W. H. Weir, *Gynecology.*
 11 Associates, 30 Assistants, 30 Instructors, 32 Demonstrators.

FRANKLIN T. BACKUS LAW SCHOOL.

Professors :

- E. Wambaugh, *Law.*
 A. C. Brightman, *Law—Contracts, Quasi-Contracts, Sales, and Partnership.*
 F. MacM. Cobb, *Law—Public Service, Corporations.*
 C. Dewitt, *Law—Surety and Mortgages.*
 W. T. Dunmore (Dean), *Law—Property, Evidence and Wills.*
 C. M. Finrock, *Law—Equity Jurisdiction, Trusts, Negotiable Instruments, and Domestic Relation.*
 A. Hadden, *Law.*
 R. Inglis, *Law—Private Corporations.*
 H. H. Johnson, *Constitutional Law.*
 A. H. Throckmorton, *Law—Agency, Conflict of Laws and Pleading.*
 1 Instructor, 2 Lecturers.

FACULTY OF THE DENTAL SCHOOL.

Professors :

- F. M. Casto (Dean), *Orthodontia.*
 C. A. Hamann, *Oral Surgery.*
 H. H. Hosford, *Chemistry.*
 N. W. Ingalls, *Anatomy.*
 W. H. O. McGege, *Operative Dentistry, Dental Pathology, and Therapeutics.*
 R. G. Perkins, *Bacteriology.*
 F. C. Waite, *Histology.*
 C. J. Wiggers, *Physiology.*
 G. H. Wilson, *Prosthesis and Metallurgy.*

Assistant Professors :

- J. P. Henahan, *Anesthesia and Exodontia.*
 J. H. Hood, *Periodontia and Roentgenology.*
 V. C. Rowland, *Pathology.*
 8 Instructors, 4 Lecturers, 7 Demonstrators.

FACULTY OF THE LIBRARY SCHOOL.

Professor :

- A. S. Tyler (Miss) (Director), *Library Economy, Library Organization, and Administration.*

Associate Professor :

- A. D. Severence, *Bibliography.*

Assistant Professors :

- L. A. Fastman (Miss), *Library Economy, Library Organization and Administration.*
 T. E. Grant (Miss), *Library Economy, Cataloguing, Subject Bibliography, Book Selection.*
 6 Instructors, 14 Lecturers.

**FACULTY OF THE SCHOOL OF
PHARMACY.****Professors :**

- E. T. Motley, *Chemistry*.
E. Spease (Dean), *Pharmacy*.

Assistant Professor :

- P. J. Hanzlik, *Pharmacology*.
1 Associate, 3 Assistants, 10 Lecturers.

School of Applied Social Sciences.**Professors :**

- C. C. Arbuthnot, *Economics*.
J. E. Cutler, *Sociology*.
A. R. Hatton, *Political Science*.
M. E. Parker (Miss), *Household Administration*.

Assistant Professors :

- C. W. Coulter, *Sociology*.
H. W. Dodds, *Political Science*.
C. E. Gehlke, *Sociology*.
Many Lecturers and Assistants.

FACULTY OF ADELBERT COLLEGE.

(Undergraduate College for Men.)

Professors :

- C. C. Arbuthnot, *Economics*.
E. J. Benton, *History*.
C. P. Bill, *Greek*.
B. P. Bourland, *Romance Languages*.
M. M. Curtis, *Philosophy*.
H. P. Cushing, *Geology*.
J. E. Cutler, *Sociology*.
O. F. Emerson, *English*.
C. Harris, *German*.
A. R. Halton, *Political Science*.
F. H. Herrick, *Biology*.
W. G. Leutner (Dean), *Greek and Latin*.
H. W. Mountcastle, *Physics and Astronomy*.
A. D. Pitcher, *Mathematics*.
S. B. Platner, *Latin*.
O. F. Tower, *Chemistry*.

Associate Professors :

- J. E. Hyde, *Geology*.
J. S. Moore, *Philosophy*.
B. E. Schmitt, *History*.
H. S. Woodward, *English*.

Assistant Professors :

- J. J. Breitenbecher, *Biology*.
G. W. Coulter, *Sociology*.
H. W. Dodds, *Political Science*.

Assistant Professors—Continued :

- C. E. Gehlke, *Sociology*.
A. F. O. Germann, *Chemistry*.
W. J. Graham, *English*.
C. D. Lamberton, *Biblical Literature*.
C. H. Otis, *Biology*.
O. E. Staaf, *Romance Languages*.
E. von den Steiner, *Physical Training*.
15 Instructors.

**FACULTY OF COLLEGE FOR
WOMEN.****Professors :**

- H. A. Aikins, *Philosophy*.
C. C. Arbuthnot, *Economics*.
J. L. Borgerhoff, *Romance Languages*.
H. E. Bourne, *History*.
C. E. Clemens, *History and Theory of Music*.
H. P. Cushing, *Geology*.
J. E. Cutler, *Sociology*.
R. W. Deering, *German*.
E. N. Fowler, *Greek*.
H. Gruener, *Chemistry*.
H. M. Haydn, *Biblical Literature*.
F. H. Herrick, *Biology*.
W. H. Hulme, *English*.
H. W. Mountcastle, *Physics and Astronomy*.
C. L. Myers (Miss), *English*.
M. E. Partar (Miss), *Household Administration*.
A. H. Palmié (Miss), *Mathematics*.
E. M. Perkins (Miss), *Latin*.
H. M. Smith (Miss), (Dean).
L. Thorndike, *History*.

Associate Professor :

- J. C. Chapman, *Experimental Education*.

Assistant Professors :

- F. R. Amos (Miss), *English*.
J. R. Breitenbecher, *Biology*.
E. R. Beckwith (Mrs.), *Mathematics*.
E. Ferris (Miss), *History*.
A. F. O. Germann, *Chemistry*.
J. E. Hyde, *Geology*.
M. G. Lundberg (Miss), *Household Administration*.
I. T. O'Neil (Mrs.), *Romance Languages*.
C. H. Otis, *Biology*.
16 Instructors.

Post-Graduate Courses.—No special statement for the Graduate School for the current year.

Institutes and Museums.—

- Reference Museum at the Dental School.
Geological collections in the Geological Laboratory.
Natural History Museum in Biological Laboratory.
Institute of Religious Education.

Libraries.—

Hatch Library, 95,519 volumes, 30,000 unbound books and pamphlets.

Librarian: G. F. Strong. *Assistant Librarian*: Miss H. M. Beale.

The Library, The College for Women, 15,617 volumes. *Librarian*: Miss C. E. Waters.

The Law School Library, 15,000 volumes.

The School of Medicine, 5,500 volumes.

The Dental School, 500 volumes.

The Library School, 2,500 volumes.

The School of Pharmacy, 500 volumes.

CASE SCHOOL OF APPLIED SCIENCE (Engineering College), Cleveland, Ohio.
(1881.)

This is an engineering college. The work is both theoretical and practical. About one-half of each day is given to practical work in the drafting room, laboratory, the shop, or the field. The month of June is a practice term, when all the time is given to practical work in the laboratories or in the surveying camps. Length of Course, 4 years.

Terms: Two semesters and one practice term.

Students: 781.

Budget: \$201,979.

OFFICIALS.

President.—Charles S. Howe, Ph.D., D.Sc., LL.D.

Dean.—Theodore M. Focke, Ph.D.

Secretary of the Board of Trustees.—Eckstein Case.

Degrees conferred.—B.S., M.S.

PROFESSORS.

Professors :

F. M. Comstock, *Drawing and Descriptive Geometry*.

A. S. Wright, *Modern Languages*.

D. C. Miller, *Physics*.

A. W. Smith, *Chemistry*.

F. H. Neff, *Civil Engineering*. [*alogy*.

F. R. Van Horn, *Geology and Miner-*

H. B. Dates, *Electrical Engineering*.

G. H. Johnson, *History*.

C. H. Fulton, *Mining Engineering*.

F. H. Vose, *Mechanical Engineering*.

R. H. Danforth, *Mechanics*.

Associate Professors :

D. T. Wilson, *Astronomy and Mathe-*

W. R. Veazey, *Chemistry*. [*matics*.

C. L. Eddy, *Railroad Engineering*.

Assistant Professors :

C. W. Coppersmith, *Machine Design*.

H. F. Pasini, *Gymnasium*.

C. D. Hodgman, *Physics*.

R. C. Hummell, *Chemistry*.

N. A. Lange, *Chemistry*.

E. J. Martin, *Physics*.

K. O. Thompson, *English*.

H. M. Showman, *Mechanics*.

E. J. Staples, *Electricity*.

W. E. Stark, *Mechanical Engineering*.

C. F. Thomas, *Mathematics*.

C. W. Thomas, *Drawing and Descriptive Geometry*.

W. D. Trautmann, *Modern Languages*.

14 Lecturers and 31 Instructors.

Post-Graduate Courses.—In Civil Engineering, Mechanical Engineering, Chemical Engineering, Mining Engineering, Metallurgical Engineering, Physics. Leading to the degrees of Civil Engineer, Mechanical Engineer, Chemical Engineer, Mining Engineer, Metallurgical Engineer, and Master of Science.

Librarian: K. O. Thompson. Each department has its own special library under the charge of one of the assistant professors or instructors.

Museum.—Geology and Mineralogy.

COLLEGE OF PHYSICIANS AND SURGEONS. No particulars received

CLINTON (New York).**HAMILTON COLLEGE**, Clinton, New York. (1812.)*Terms*: Two semesters per year.*Students*: 294.*Budget*: \$150,000 approximately.**OFFICIALS.***President*.—Frederick C. Ferry.*Chairman of the Board of Trustees*.—Hon. Elihu Root.*Clerk of the Board of Trustees*.—George E. Dunham.*Treasurer*.—Charles B. Rogers.*Registrar*.—Samuel J. Saunders.*Dean*.—Arthur P. Saunders.*Clerk of the Faculty*.—Horace S. Brown.**Degrees conferred**.—A.B., B.S., A.M., M.S., D.D., LL.D., Litt.D. Oxford fashion of hoods used.**PROFESSORS.****FACULTY OF ARTS AND SCIENCE.****Professors:**F. C. Ferry, *Mathematics*.H. C. G. Brandt, *German Language and Literature*.A. D. Morrill, *Biology*.W. H. Squires, *Philosophy*.S. J. Saunders, *Physics*.W. P. Shepard, *Romance Languages and Literature*.A. P. Saunders, *Agriculture and General Chemistry*.E. Fitch, *Greek*.J. D. Ibbotson, *Hebrew*.F. H. Wood, *Political Science*.F. M. Davenport, *Law and Civil Polity*.C. L. Lewis, *Rhetoric and Oratory*.**Post-Graduate Courses**.—The Degrees of Master of Arts and Master of Science is conferred upon graduates of Hamilton, or of any other college with equivalent courses, for residence of one year.**Museums and Learned Institutions.**—

Museum of Natural History.

The Epsilon Chapter in New York State of the Honorary Educational Society, *Phi Beta Kappa*.**Library**.—The College Library contains 86,000 volumes and 23,000 pamphlets. *Librarian*: J. D. Ibbotson.**COIMBATORE (India).****THE AGRICULTURAL COLLEGE AND RESEARCH INSTITUTE**, Coimbatore, India. (1896.)

The College is a part of the Agricultural Department of the Government of Madras.

Terms: Three per year.*Students*: 120.*Budget*: Department budget of Expenditure:

Allotment for Principal (1919-20): Rs. 43,000.

OFFICIALS.*Principal*.—Cecil Wood, M.A.*Acting Principal*.—W. McRae, M.A., B.Sc., F.L.S.*Assistant Principal*.—Rai Sahib M. R. Ramaswami Sivan Avl., B.A.*Superintendent* (Central Farm).—Cecil Wood.*Superintendent* (acting, Central Farm).—R. C. Broadfoot, and 1 Farm Office Manager.*Government Mycologist*.—W. McRae, and 4 Assistants.*Government Economic Botanist*.—F. R. Parnell.*Government Economic Botanist* (acting).—G. N. Rangaswami Ayyangar Avl., and 3 Assistants.

Government Agricultural Chemist.—R. V. Norris, and 8 Assistants.

Government Entomologist.—E. Ballard, and 5 Assistants.

Government Systematic Botanist.—R. B. K. R. Acharyar, and 3 Assistants.

Government Sugarcane Expert.—C. A. Barber.

Government Sugarcane Expert (acting).—T. S. Venkataraman, and 3 Assistants.

Professor of Agriculture.—C. Wood.

Professor of Agriculture (acting).—D. A. R. Garu, and 1 Lecturer, 5 Assistants, and 1 Supervisor.

Degrees and Hoods.—Certificate of Proficiency in Practical Agriculture. Diploma of Agriculture, carrying the designation of Licentiate in Agriculture (L.Ag.)

Library containing 3,126 volumes; 4,137 periodicals; 11,756 pamphlets, bulletins, etc. *Librarian*: R. V. Norris, D.Sc., M.Sc., F.I.C.

COLD SPRING HARBOR (Long Island, N.Y.).

EUGENICS RECORD OFFICE, Cold Spring Harbor, Long Island. (1910.)

One of the departments of the Carnegie Institution of Washington. Founded by Mrs. E. H. Harriman and maintained by her until January 1st, 1918, when it was given by her to the Carnegie Institution of Washington.

Terms: Work is continuous. *Budget*: \$26,350. (1919.)

Director.—Chas. B. Davenport, Ph.D.

Superintendent.—H. H. Laughlin, Sc.D.

Research Staff. (Work in Eugenics).

H. J. Banker, Families of college men and women.

A. H. Estabrook, The Ishmaelites.

L. A. Nelson (Miss), Archivist.

Elizabeth B. Muncey, M.D., Field Worker.

M. L. Earle (Miss), Library Reader.

Learned Societies.—The Eugenics Research Association, composed of field workers who have been trained at the Eugenics Record Office, and others doing professional work in human heredity. 136 active members and 9 supporting.

Library, about 3,000 volumes; Archives, 75,000 sheets of original manuscript data; 700,000 index cards to materials.

STATION FOR EXPERIMENTAL EVOLUTION, Cold Spring Harbor, Long Island, N.Y. (1904.)

One of the departments of the Carnegie Institution of Washington, and supported by a part of the endowment given to the Carnegie Institution of Washington by Andrew Carnegie.

Budget (1919): \$63,474.

Director.—Chas. B. Davenport, Ph.D.

Research Staff. (Work in Genetics.)

A. M. Banta, Cave Animals and sex control.

A. F. Bakeslee, Plant genetics and intermediate sex.

H. D. Fish, Heredity of spotted hair coats.

J. A. Harris, Biometry and plant genetics.

C. C. Little, Cancer in mice, human sex ratios.

C. W. Metz, *Drosophila* experiments and chromosomes.

O. Riddle, Pigeons, Physiology of reproduction.

E. C. MacDowell, Effects of environment on germ-plasm.

Library of about 5,700 volumes.

BIOLOGICAL LABORATORY, Cold Spring Harbor, Long Island. (1890.)

A Department of the Brooklyn Institution of Arts and Sciences.

Terms: From July to mid-August. (Six weeks.)

Students: Usually limited to about 50. Persons received are generally teachers or graduates of colleges.

Budget: \$3,725 for 1919.

Director.—Chas. B. Davenport, Ph.D.

Assistant Director.—H. E. Walter, Ph.D.

PROFESSORS.

H. S. Pratt, <i>Anatomy</i> . A. H. Walter (Mrs.), <i>Bird Study</i> . H. H. Laughlin, <i>Training Course for Field Workers in Eugenics</i> .	}	J. W. Harshberger, <i>Botany</i> . H. H. Wilder, <i>Physical Anthropology</i> . H. D. Fish, <i>Heredity</i> .
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4 Permanent Assistants and several appointed for temporary work; 11 Lecturers, Readers, etc.

COLLEGE PARK (Maryland).

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—H. J. Patterson.

COLOMBO (Ceylon).

THE COLOMBO MUSEUM, Colombo, Ceylon.

Director.—Joseph Pearson, D.Sc., F.R.S.E., F.L.S.

Marine Biologist.—Joseph Pearson, D.Sc., F.R.S.E., F.L.S.

Assistant Marine Biologist.—L. H. James, M.A.

Entomologist.—G. M. Henry.

Secretary and Librarian.—G. A. Joseph.

The Museum was founded in 1875 by the Right. Hon. Sir William Gregory, K.C.M.G., Governor of Ceylon.

The **Exhibition Galleries** contain Medieval, Archeological, and Ethnographical objects belonging to Ceylon, divided into the following sections: Ethnological Rooms, Bronze Room, Stone Gallery, and Furniture Room. The exhibits include copies of unique twelfth-century paintings of Buddhist Art.

The **Mineral Gallery** contains a collection of rocks, minerals, and gems of Ceylon, arranged by the Mineralogical Survey.

The **Natural History Gallery** contains an exhibition of vertebrate and invertebrate animals belonging to the Fauna of Ceylon. It comprises the following principal sections:

1. Main Gallery, containing birds, also several groups of invertebrates—*e.g.*,
2. Fish Gallery (including marine invertebrates). [insects, etc.]
3. Mammalian Gallery.
4. Reptile Gallery.
5. Research Collection. There are very fine collections of insects (especially Lepidoptera), as well as collections of mammal and bird skins and marine invertebrates.

In recent years the Museum has benefited by the accession of extensive collections—*e.g.*, the Pole Collection of Lepidoptera, the Swayne Collection of Snakes, the Collett Collection of Land Mollusca, together with extensive donations by various local naturalists.

The **Colombo Museum Library** contains upwards of 10,000 volumes. The Library receives a copy of every work published in the Colony since 1885. It contains many rare and valuable works of reference on Natural Science, Oriental Literature, and Ceylon. The special characteristics of the Library are the possession of one of the best—if not the best—collections of Ceylonese literature, a very good collection of books on Biology, and a most valuable collection of ola palm-leaf manuscripts in Sinhalese, Pali, and Sanskrit. The ola manuscripts number nearly 500, and the greater portion are the sacred Buddhistical books; but besides these manuscripts there are historical, philological, medical, poetical, and other works of a miscellaneous character.

The **Library of the Ceylon Branch of the Royal Asiatic Society**, founded in 1845, is also housed in the Museum. This Library contains about 8,000 volumes, consisting of many valuable books on Ceylon, Archeology, Oriental Literature, Voyages, and a large collection of the publications of learned societies with which the local society exchanges its Journal.

Publications.—"Spolia Zeylanica," a quarterly Journal established in 1903; "Memoirs of the Colombo Museum;" also various catalogues and guides.

COLOMBO OBSERVATORY, Colombo. (Attached to Survey Department, Ceylon.)
Time and Meteorology.

OFFICIALS.

Superintendent.—A. J. Bamford, B.A., B.Sc., F.R.A.S., F.R. Met. Soc.
First Assistant.—J. E. Evans, F.R. Met. Soc., pro. tem., Acting Superintendent.
Assistant.—H. Jameson, B.Sc.
Meteorological Observer.—F. A. Pullenayegum.
13 Assistant Clerks.

COLORADO SPRINGS (Colorado).

COLORADO COLLEGE, Colorado Springs, Colorado. (1874.)

Terms: Two half-years—September to January, and February to June.

Students: 500-700.

Budget: Average about \$25,000; often higher as special gifts are received.

OFFICIALS.

<i>President.</i> —C. A. Duniway.	<i>Registrar.</i> —J. M. Morrow.
<i>Secretary.</i> —R. H. Motten.	<i>Treasurer.</i> —W. W. Postlethwaite.
<i>Dean of College.</i> —J. G. McMurtry.	<i>Librarian.</i> —M. D. Ormes.
<i>Dean of Women.</i> —Marion Churchill.	

Degrees conferred.—A.B., B.S., A.M., M.S., F.E. (Forest Engineer), C.E., E.E.

PROFESSORS.

DEPARTMENT OF ARTS AND SCIENCES.

Professors :

(Vacant), *Romance Languages.*
J. G. McMurtry, *Biblical Literature.*
R. J. Gilmore, *Biology.*
W. Strieby, *Chemistry.*
A. E. Davies, *Education.*
R. H. Motten, *English.*
G. K. Pattee, *English.*
S. Thompson, *English.*
G. M. Howe, *German.*
C. C. Microw, *Greek and Latin.*
C. H. Sisam, *Mathematics.*
G. H. Albright, *Mathematics.*

Associate Professors :

F. W. Douglas, *Chemistry.*
S. F. Bemis, *History.*
W. V. Lovitt, *Mathematics.*

Assistant Professors :

A. E. Lambert, *Biology.*
P. V. West, *Education.*
F. C. Palm, *History.*
11 Instructors.

DEPARTMENT OF ENGINEERING.

Professor : [and *Physics.*]
R. R. Tileston, *Electrical Engineering*

Post-Graduate Courses.—Limited amount in several departments; primarily an undergraduate college.

Museums.—Natural History. Miscellaneous. Fine Arts Collection.

AFFILIATED INSTITUTION.

Academy of Fine Arts.

COLORADO SCHOOL OF MINES. See GOLDEN.

COLUMBIA UNIVERSITY. See NEW YORK.

COLUMBIA (Missouri).

UNIVERSITY OF MISSOURI. No particulars received.

THE STATE HISTORICAL SOCIETY OF MISSOURI, Columbia, Missouri.

Founded 1898. Incorporated 1899.

Budget : 1919-20, by appropriation of the State of Missouri, \$35,685.

OFFICIALS.

President.—Walter B. Stevens, St. Louis, Mo.

Secretary.—Floyd C. Shoemaker, Columbia, Mo.

6 Vice-Presidents, 1 Treasurer, 26 Trustees.

Publishes Quarterly Magazine.—"The Missouri Historical Review," 13 volumes published.

Library.—180,000 books and pamphlets; 10,000 bound volumes Missouri newspapers. *Librarian* : F. C. Shoemaker.

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—F. B. Mumford.

COLUMBUS (Ohio).

THE OHIO STATE UNIVERSITY, Columbus, Ohio. (1870.)

Terms : September to June, and summer session.

Students (1918-1919): 5,065. *Budget* : \$2,000,000.

OFFICIALS.

President.—W. O. Thompson, D.D., LL.D.

Secretary and Registrar.—Miss E. D. Corkins, B.A.

Degrees conferred.—B.Sc. (Agr.), B.A., B.Sc., D.D.S., B.Sc. (Edu.), M.D., D.V.M., B.Arch., J.D., LL.B.

PROFESSORS.

**COLLEGE OF ARTS,
PHILOSOPHY, AND SCIENCE.**

Professors :

- G. F. Arps, *Psychology.*
- F. C. Blake, *Physics.*
- R. D. Bohannon, *Mathematics.*
- G. M. Bolling, *Greek Language and Literature.*
- B. L. Bowen, *Romance Languages and Literature.*
- J. A. Bownocker, *Inorganic Geology.*
- J. N. Bradford, *Architecture.*
- J. E. Carman, *Geology.*
- C. St. J. Chubb, jr., *Architecture.*
- F. W. Coker, Ph.D., *Political Science.*
- A. D. Cole, *Physics.*
- G. L. Converse, Major, *Military Science and Tactics.*
- D. J. Demorest, *Metallurgy.*
- J. V. Denney, *English.*
- S. C. Derby, *Latin.*
- R. F. Earhart, *Physics.*
- B. A. Eisenlohr, *German.*
- W. S. Elden, *Latin.*
- M. B. Evans, *German.*
- W. L. Evans, *Chemistry.*
- G. W. Foulk, *Analytical Chemistry.*

Professors—Continued :

- W. L. Graves, *English.*
- J. E. Hagerty, *Economics and Sociology.*
- M. B. Hammond, "*Inorganic*" and *Physical Chemistry.*
- W. E. Henderson, *Inorganic* and *Physical Chemistry.*
- H. C. Hockett, *American History.*
- A. W. Hodgman, *Latin.*
- C. C. Huntington, *Economics and Sociology.*
- E. S. Inghram, *Romance Languages.*
- C. F. Kelley, *Art.*
- V. A. Ketcham, *English.*
- G. W. Knight, *American History.*
- H. W. Kuhn, *Mathematics.*
- J. A. Leighton, *Philosophy.*
- H. C. Lord, *Astronomy.*
- W. J. McCaughey, *Mineralogy.*
- G. W. McCoard, *Mathematics.*
- C. C. McCracken, *School Administration.*
- G. H. McKnight, *English.*
- E. H. McNeal, *European History.*
- W. McPherson, *Chemistry.*
- H. D. Minchin, *Applied Optics.*
- C. C. Morris, *Mathematics.*
- H. Osborn, *Zoology and Entomology.*

Professors—Continued :

- R. C. Osburn, *Zoology and Entomology*.
 C. Perkins, *European History*.
 J. H. Schaffner, *Botany*.
 C. Sheard, *Physics and Applied Optics*.
 W. H. Siebert, *European History*.
 A. W. Smith, *Physics*.
 H. D. Smith, *Architecture*.
 H. R. Spencer, *Political Science*.
 K. D. Swartzel, *Mathematics*.
 J. R. Taylor, *English*.
 E. N. Transeau, *Botany*.
 E. L. Usry, *Manual Training*.
 A. R. Van Meter (Miss), *Home Economics*.
 E. N. White (Miss), *Home Economics*.
 J. R. Withrow, *Chemistry*.
 S. E. Razor, *Mathematics*.
 C. O. Ruggles, *Economics and Sociology*.

Associate Professors :

- C. L. Arnold, *Mathematics*.
 J. S. Hine, *Zoology and Entomology*.
 E. S. Manson, jr., *Astronomy*.

Assistant Professors :

- C. E. Andrews, *English*.
 A. E. Avey, *Philosophy*.
 G. M. Bareis (Miss), *Mathematics*.
 S. T. Barrows (Miss), *German*.
 W. M. Barrows, *Zoology and Entomology*.
 H. M. Beatty, *Mathematics*.
 E. L. Beck, *English*.
 C. E. Boord, *Chemistry*.
 C. S. Boucher, *American History*.
 J. W. Bridges, *Psychology*.
 A. R. Chandler, *Philosophy*.
 G. S. Chapin, *Romance Languages*.
 L. A. Cooper, *English*.
 J. E. Day, *Chemistry*.
 P. H. Elwood, *Landscape Architecture*.
 R. F. Griggs, *Botany*.
 T. E. Hamilton, *Romance Languages*.
 M. C. Hathaway (Miss), *Home Economics*.
 H. G. Heil, *Physics*.
 T. M. Hills, *Geology*.
 M. Hollingworth, *Chemistry*.
 F. H. Kreeker, *Zoology and Entomology*.
 E. H. Mack, *Chemistry*.
 C. L. Metcalf, *Zoology and Entomology*.
 C. C. North, *Economics and Sociology*.
 H. L. Olin, *Chemistry*.
 M. Percival, *English*.
 J. B. Preston, *Mathematics*.
 A. R. Robinson (Miss), *Art*.
 W. G. Stover, *Botany*.
 M. Thomas (Miss), *German*.
 W. M. Tucker, *Geology*.
 H. F. Walradt, *Economics and Sociology*.
 G. Washburne, *European History*.
 A. P. Weiss, *Psychology*.

COLLEGE OF AGRICULTURE.

Professors :

- F. E. Bear, *Soils*.
 O. Erf, *Dairying*.
 D. J. Kays, *Animal Husbandry*.
 J. F. Lyman, *Agricultural Chemistry*.
 L. M. Montgomery, *Horticulture*.
 W. Paddock, *Horticulture*.
 J. B. Park, *Farm Crops*.
 C. S. Plumb, *Animal Husbandry*.
 H. C. Ramsower, *Agricultural Engineering*.
 A. Vivian, *Agricultural Chemistry*.

Assistant Professors :

- J. S. Coffey, *Animal Husbandry*.
 H. E. Erdman, *Rural Economics*.
 J. I. Falconer, " "
 A. C. Hottes, *Floriculture*.
 F. W. Ives, *Agricultural Engineering*.
 F. S. Jacoby, *Poultry Husbandry*.
 E. F. Johnson, *Agricultural Education*.
 T. D. Phillips, *Rural Economics*.
 T. G. Phillips, *Agricultural Chemistry*.
 N. W. Scherer, *Horticulture*.
 R. B. Stoltz, *Dairying*.
 C. J. Willard, *Farm Crops*.

**COLLEGES OF MEDICINE,
 PHARMACY, AND DENTISTRY.**

Professors :

- A. M. Bleile, *Anatomy and Physiology*.
 C. Brooks, *Physiology and Pharmacology*.
 J. E. Brown, *Oto-Laryngology*.
 F. A. Burrett, *Surgery and Clinical Surgery*.
 H. V. Cottrell, *Prosthetic Dentistry*.
 C. A. Dye, *Pharmacy*.
 J. A. Ferree, *Eye, Ear, Nose, and Throat*.
 F. B. Grosvenor, *Clinical Diagnosis and Microscopy*.
 A. E. Hissdale, *Materia Medica and Clinical Therapeutics*.
 W. A. Humphrey, *Diseases of Women, Surgical Gynecology, and Obstetrics*.
 F. L. Landacre, *Anatomy*.
 E. F. McCampbell, *Preventive Medicine*.
 C. B. Morrey, *Bacteriology*.
 R. Pintner, *Psychology*.
 A. Rogers, *Obstetrics*.
 E. Scott, *Pathology*.
 H. M. Semans, *Operative Dentistry and Dental Anatomy*.
 S. Sisson, *Comparative Anatomy*.
 C. L. Spohr, *Clinical Pathology*.
 A. Timberman, *Ophthalmology*.
 J. H. J. Upham, *Medicine*.
 Y. Wardlow, *Clinical Gynecology*.
 R. C. Wolcott, *Internal Medicine*.

Assistant Professors :

- L. L. Bigelow, *Surgery*.
 H. B. Blakey, *Medicine*.
 E. C. Buck, *Anatomy*.

Assistant Professors—Continued :

- J. J. Coons, *Medicine.*
- V. A. Dodd, *Surgery and Gynecology.*
- F. Fletcher, *Gynecology.*
- J. Forman, *Pathology.*
- E. J. Gordon, *Medicine.*
- W. C. Graham, *Dental Medicine.*
- E. A. Hamilton, *Surgery.*
- I. B. Harris, *Clinical Surgery.*
- S. A. Hatfield, *Medicine.*
- E. R. Hayhurst, *Hygiene.*
- C. H. Hebble, *Operative Dentistry.*
- E. G. Horton, *Pediatrics.*
- C. McPeck, *Physiology.*
- R. G. Paterson, *Public Health.*
- R. J. Seymour, *Anatomy and Physiology.*
- C. J. Shepard, *Dermatology.*
- W. A. Starin, *Bacteriology.*
- A. M. Steinfeld, *Surgery.*
- J. H. Warren, *Anatomy.*
- B. B. Wiltberger, *Crown, Bridge, and Porcelain.*

COLLEGE OF EDUCATION.

Professors :

- L. F. Anderson, *History and Philosophy of Education.*
- S. W. Brown, *School Administration.*
- F. R. Castleman, *Physical Education.*
- J. L. Clifton, *Principles and Practice of Education.*
- J. Nichols, *Physical Education.*
- L. St. John, " "
- G. R. Twiss, *Principles and Practice of Education.*
- J. W. Wilce, *Physical Education.*

Assistant Professors :

- F. A. Meyer (Miss), *Physical Education.*
- W. F. Stewart, *Agricultural Education.*

COLLEGE OF ENGINEERING.

Professors :

- J. E. Boyd, *Mechanics.*
- F. C. Caldwell, *Electrical Engineering.*
- E. F. Coddington, *Mechanics.*
- D. J. Demorest, *Metallurgy.*
- F. H. Eno, *Municipal Engineering.*
- T. E. French, *Engineering Drawing.*
- W. A. Knight, *Machine-Shop Practice.*

Post-Graduate Courses.—In Arts, Philosophy, Science, Education, Engineering, Commerce, and Literature, and summer courses in Botany, Entomology, and Zoology at the Late Laboratory.

Library.—University Library. Contains 184,268 volumes including, the Parliamentary Papers of Great Britain, an excellent collection of new books in Animal Husbandry, and a collection of works on the Civil War. *Librarian :* Miss O. Jones.

Museums.—

- Archeological and Historical Museum. *Curator :* W. C. Mills.
- Geological Museum. *Curator :* J. E. Carman.
- Botanical Museum.
- Zoological Museum.
- Ceramic Museum.
- Veterinary Anatomy Museum.

Professors—Continued :

- W. J. McCaughey, *Mineralogy.*
- W. T. Magruder, *Mechanical Engineering.*
- F. W. Marquis, *Steam Engineering.*
- C. T. Morris, *Structural Engineering.*
- C. A. Norman, *Machine Design.*
- E. Orton, jr., *Ceramic Engineering.*
- F. A. Ray, *Mine Engineering.*
- C. E. Sherman, *Civil Engineering.*
- A. S. Watts, *Ceramic Engineering.*

Associate Professor :

- H. Judd, *Experimental Engineering.*

Assistant Professors :

- C. B. Harrop, *Ceramic Engineering.*
- R. Meiklejohn, *Engineering Drawing.*
- H. E. Nold, *Mine Engineering.*
- D. Schaaf, *Metallurgy.*
- R. C. Sloane, *Civil Engineering.*
- C. L. Svensen, *Engineering Drawing.*
- W. D. Turnbull " "
- O. E. Williams " "
- H. Wilson, *Ceramic Engineering.*

COLLEGE OF LAW.

Professors :

- J. J. Adams, *Law.*
- C. D. Laylin, " "
- J. W. Madden, *Law.*
- G. W. Rightmire, *Law.*
- A. H. Tuttle, *Law.*

COLLEGE OF VETERINARY MEDICINE.

Professors :

- O. V. Brunley, *Veterinary Surgeon.*
- A. G. G. Richardson, *Veterinary Pathology.*
- D. S. White, *Veterinary Medicine.*

Assistant Professors :

- W. A. Hobbs, *Veterinary Medicine.*
- J. N. Shoemaker, *Veterinary Medicine.*
- J. H. Snook, *Veterinary Surgery.*

COLLEGE OF COMMERCE AND JOURNALISM.

Professors :

- O. C. Hooper, *Journalism.*
- J. S. Myers, " "

OHIO ACADEMY OF SCIENCE, Columbus, Ohio.

Organized 1891. Incorporated 1892.

OFFICERS (1919-20).

President.—Prof. F. C. Blake, Ohio State University, Columbus.

Vice-Presidents.—

Zoology: Prof. F. H. Herrick, Western Reserve University, Cleveland.

Botany: Prof. A. B. Plowman, Municipal University of Akron, Akron.

Geology: Prof. J. E. Hyde, Western Reserve University, Cleveland.

Physics: Prof. J. A. Culler, Miami University, Oxford.

Medical Sciences: Prof. R. J. Seymour, Ohio State University, Columbus.

Psychology: Prof. G. R. Wells, Ohio Wesleyan University, Delaware.

Secretary.—Prof. Edward L. Rice, Ohio Wesleyan University, Delaware.

Treasurer.—Prof. W. J. Kostir, Ohio State University, Columbus.

Librarian.—C. W. Reeder, Ohio State University Library, Columbus.

Membership, about 275.

Sections.—Zoology, Botany, Geology, Physics, Medical Sciences, Psychology.

Meetings are held in various college towns of the State.

Publications.—Proceedings of the Ohio Academy of Science, consisting of Annual Reports and a series of Special Papers (19 published). *Official Organ*: "Ohio Journal of Science."

CORK.

UNIVERSITY COLLEGE, Cork. (1845.)

Terms: Three per year.

Students: 626.

Budget: Government Grant, £20,000.

OFFICIALS.

President.—Sir Bertram C. A. Windke, M.A., D.Sc., LL.D., F.R.S., F.S.A., M.R.I.A., K.S.G.

Registrar.—Prof. P. J. Merriman, M.A.

Secretary and Bursar.—Joseph Downey.

Librarian.—John Fawcett, M.A.

Degrees as National University of Ireland.

PROFESSORS.

FACULTY OF ARTS.

Professors:

W. F. P. Stockley, *English*.

G. E. Lindsay (Mrs.), *German*.

H. J. Treston, *Ancient Classics*.

P. J. Merriman, *History*.

E. M. O'Sullivan (Miss), *Methods of Education*.

St. J. Lacy, *Music*.

Rev. T. E. Fitzgibbon, *Philosophy*.

M. Ryan (Miss), *Romance Languages*.

Rev. P. Power, *Archeology*.

Lecturers:

W. H. Porter, *Ancient Classics*.

E. P. McSweeney, *History of Education*.

W. C. Cooke, *Spanish*.

FACULTY OF SCIENCE.

Professors:

M. J. Conran, *Mathematics*.

H. A. Cummins, *Botany and Agriculture*.

A. E. Dixon, *Chemistry*.

Professors—Continued:

I. Swain, *Geology and Geography*.

A. J. Rahilly, *Mathematical Physics*.

W. Bergin, *Physics*.

M. Hartog, *Zoology*.

Lecturers:

A. Hill, *Architecture*.

E. W. Hoare, *Veterinary Science*.

FACULTY OF MEDICINE.

Professors:

D. P. Fitzgerald, *Anatomy*.

D. D. Donovan, *Hygiene*.

P. T. O'Sullivan, *Medical Jurisprudence*.

W. E. Ashley Cummins, *Medicine*.

H. Corby, *Obstetrics and Gynecology*.

A. W. Sandford, *Ophthalmology and*

A. E. Moore, *Pathology*. [*Otology*]

D. T. Barry, *Physiology*.

C. Yelverton Pearson, *Surgery*.

J. Dundon, *Therapeutics and Materia*

Medica.

Lecturers :

J. J. Fitzgerald, *Mental Diseases*.
 J. R. Hackett, *Dental Surgery*.
 G. Sheedy, *Dental Mechanics*.

FACULTY OF LAW.

Professors :

G. J. Stokes, *Philosophy and Jurisprudence*.
 H. J. Moloney, *Law of Real Property and of Equity*.
 W. J. Dunlea, *Law of Contracts, of Personal Property and Torts*.

FACULTY OF COMMERCE.

Professor :

T. Smiddy, *Economics and Commerce*.

Post-Graduate Courses for the Degrees of Master and Doctor in the Faculties of the National University of Ireland.

Institutes, Museums, Learned Societies.—

Museums of Natural History, Geology and Mineralogy, Medicine, Archaeology and Ethnography.

Crawford Observatory, and Botanic Gardens.

Literary and Philosophical Society, Irish Literary Society, Engineering Society, Scientific Society, Commerce Society.

College Library.—60,000 volumes. *Librarian* : J. Fawcett, M.A.

Lecturer :

A. J. Magennis, *Accounting*.

FACULTY OF ENGINEERING.

Professor :

C. W. L. Alexander, *Civil Engineering*.

Lecturer :

P. E. Belas, *Electrical Technology*.

FACULTY OF CELTIC STUDIES.

Professor :

T. O'Donoghue, *Irish Languages and Literature*.

Lecturer :

E. O'Donoghue, *Modern Irish*.

CORNEL UNIVERSITY. See ITHACA.

CORVALLIS (Oregon).

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—A. B. Cordley.

CROWLEY (Louisiana).

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—W. R. Dodson.

DALHOUSIE UNIVERSITY. See HALIFAX.

DARTMOUTH COLLEGE. See HANOVER.

DAVID HARE TRA NING COLLEGE. See CALCUTTA.

DAYNAAND ANGLO-VEDIC COLLEGE. See LAHORE.

DEHRA DUN (India).

FOREST RESEARCH INSTITUTE AND COLLEGE, Dehra Dun, United Provinces, India. (1881.)

Terms : Spring term (April and May) on tour; Rains term (July to October) at Dehra; Winter term (November to March) on tour.

Students : 30 admitted yearly, course of two years.

President.—W. F. Perrère, C.I.E., I.F.S., Conservator of Forests.

Degrees.—No degree conferred. Certificates with honours or ordinary are awarded to students according to proficiency to those who pass the qualifying tests.

Entrants into the College courses usually possess a degree in Science of some Indian University.

The course is intended solely for natives of India, but adjoining British possessions have also sent students to be trained at this Institute.

Departments.—The institution is entirely managed and supported by the Government of India with a view to developing the resources of Indian forests, and supplying a staff of officers, recruited and trained in India, to fill vacancies in the Provincial Forest Service.

Lecturers, Instructors, etc.—The educational work is conducted by two Instructors aided by two Assistant Instructors. In addition the experts in each branch of the Research Institute deliver a course of lectures, each in his own subject, to the students.

Libraries.—A well-equipped library, containing works of reference on forestry and cognate sciences, forms part of the Research Institute.

Museums.—Museums exhibiting specimens of interest in Forest Economics, Botany, Zoology, and Silviculture form part of the Institute.

DELAWARE (Ohio).

OHIO WESLEYAN UNIVERSITY, Delaware, Ohio. (1842.)

Terms : Two semesters.

Students : 1,200.

OFFICIALS.

President.—J. W. Hoffman, M.A., D.D., LL.D.

Vice-President.—R. T. Stevenson, D.D., Ph.D., LL.D.

Dean of the College and Registrar.—W. E. Smyser, M.A., Litt.D.

Dean of Men.—W. G. Hormell, Ph.D.

Dean of Women and the Conservatory.—C. B. Austin, M.A., D.D.

Treasurer.—B. E. Cartmell, B.A.

Degrees conferred.—B.A., M.A., M.S., D.D., LL.D., Ped.D.

PROFESSORS.

Professors :

- R. Parsons, *Greek.*
- C. B. Austin, *Mathematics and Astronomy.*
- W. W. Davies, *German and Hebrew.*
- R. T. Stevenson, *American History.*
- W. G. Hormell, *Physics.*
- C. A. Nelson (Miss), *French.*
- T. G. Duvall, *Philosophy.*
- E. L. Rice, *Biology.*
- R. H. Walker, *English Bible.*
- L. G. Westgate, *Geology.*
- W. E. Smyser, *English.*
- G. O. Higley, *Chemistry.*
- B. L. McElroy, *Applied Christianity.*
- G. N. Armstrong, *Mathematics.*
- R. B. Miller, *Biblical Literature.*
- C. M. Newcomb, *Oratory.*
- G. R. Wells, *Psychology.*
- P. K. Holmes, *Physical Education.*
- F. E. Wolfe, *Economics.*
- B. A. Arneson, *Political Science.*
- H. P. Ward, *Military Training.*
- A. R. Mead, *Education.*
- O. M. Buck, *Missions and Comparative Religion.*
- D. N. Robinson, *Latin.*
- H. P. Reeves, *Spanish.* [ology.]
- J. H. Ashworth, *Economics and Soci-*

Associate Professors :

- E. L. Konantz (Miss), *Mathematics.*
- G. Stanley (Miss), *Latin.*
- K. S. McLean, *Education.*

Libraries.—

Slocum Library, Monnett Library. Librarian : R. B. Miller.

Associate Professors—Continued :

- C. A. Krummel, *German.*
- C. E. O'Neal, *Botany.*
- C. Walls (Miss), *Physical Education.*
- H. W. Ewing, " "

Assistant Professors :

- T. E. Steckel, *German.*
- R. E. Jackson (Miss), *Oratory.*
- M. Lewis (Miss), *Home Economics.*
- A. F. Amy, *English.*
- E. J. Beck, *Sociology.*
- H. C. Hubbard, *History.*
- T. P. Oakley, " "
- C. C. Crump, *Astronomy.*
- J. C. M. Grimm, *Latin.*
- C. C. Peters, *Education.*
- O. K. Boring, *French and Spanish.*
- J. C. Hodges, *English.*
- J. De L. Ferguson, *English.*
- M. S. Allen, *English.*
- C. H. Skinner, *Physics.*
- 16 Instructors, 2 Lecturers, 2 Fellows.

SCHOOL OF MUSIC.

Professors :

- H. Whitehouse, *Music.*
- J. W. Parker, " "
- 8 Instructors.

SCHOOL OF FINE ARTS.

Professor :

- C. A. Nelson (Miss), *Art History.*
- 4 Instructors.

DELHI (India).

ST. STEPHEN'S COLLEGE, Kashmir Gate, Delhi. (1882.)

Affiliated to the University of the Panjab, Lahore.

Terms : Three a year.

Students : 240.

OFFICIALS.

Principal.—S. K. Rudra, M.A.

Vice-Principal.—Rev. P. N. F. Young.

Bursar.—S. N. Mukerji, M.A.

LECTURERS.

C. B. Young, *English*.
G. H. C. Sharp ,,
W. F. Ireland ,,
M. Sharp (Mrs.), *English*.
L. D. Shastri, *Sanskrit*.
A. Rahman, *Arabic*.
A. Ali, *Persian*.

S. H. Thomas, *Mathematics*.
S. N. Mukarji, *Mathematics*.
K. Ram, *Physics*.
J. N. Mitra, *Chemistry*.
N. K. Sen, *Philosophy*.
P. N. F. Young, *History*.
S. Bhathacharya ,,

S. K. Rudra, *Economics*.

HINDU COLLEGE, Delhi, Punjab, India. (1899.)

Affiliated to the University of the Punjab, Lahore.

OFFICIAL.

Principal.—N. V. Thadani, M.A.

LADY HARDINGE MEDICAL COLLEGE, Raisina, Delhi. (1916.)

Affiliated to the University of the Punjab, Lahore.

Students : 100.

OFFICIALS.

Principal.—Miss K. A. Platt, M.D.

Superintendent of Nurses.—Miss L. Mackenzie.

PROFESSORS.

K. A. Platt (Miss), *Medicine*.
C. L. Houlton (Miss), *Gynecology and Midwifery*.
M. G. Murphy (Miss), *Anatomy*.
M. R. N. Holmer (Miss), *Physiology*.
H. M. Franklin (Miss), *Surgery*.

M. B. Stogden (Miss), *Pathology*.
A. M. Bain (Miss), *Chemistry*.
L. M. Hett (Miss), *Botany and Zoology*.
P. M. Borthwick (Miss), *Mathematics and Physics*.
2 Lecturers, 1 Demonstrator.

RAMJAS COLLEGE, Delhi, India. (1917.)

Affiliated to the University of the Punjab, Lahore.

OFFICIALS.

President.—Rai Sahib Lala Kedar Nath, M.A.

Principal.—A. T. Gidvani, M.A.

PROFESSORS.

A. T. Gidvani, *English and History*.
N. D. Gurbaxani, *Philosophy and History*.

L. D. Keswani, *English*.
K. Lall, *Mathematics and Sanskrit*.
2 Lecturers.

DENVER (Colorado).

UNIVERSITY OF DENVER. No particulars received.

DES MOINES (Iowa).

IOWA ACADEMY OF SCIENCE, Des Moines, Iowa.

OFFICIALS.

President.—Prof. T. C. Stephens, Morningside College, Sioux City.*First Vice-President.*—Prof. Nicholas Knight, Cornell College, Mt. Vernon.*Second Vice-President.*—Prof. D. W. Morehouse, Drake University, Des Moines.*Secretary.*—Dr. James H. Lees, Iowa Geological Survey.*Treasurer.*—Prof. A. O. Thomas, State University, Iowa City.

The Academy holds a meeting each year in April. The papers presented at these meetings are published annually in the Proceedings of the Academy. Officers are elected for one year, although the Secretary and Treasurer are usually re-elected several times. There are six classes of members: Life Fellows, Fellows, Associates, Corresponding Fellows, Honorary Fellows, and Corresponding Associates. Fellows and Associates are elected from residents of Iowa. Fellows and Associates removing from the state become corresponding Fellows and Associates, respectively. Honorary Fellows are chosen from the distinguished scientists of this or other states.

DIOCESAN TRAINING COLLEGE. *See* BALIGANI.DROPSIE COLLEGE. *See* PHILADELPHIA.

DUBLIN (Ireland).

TRINITY COLLEGE, Dublin, Ireland. (1591.)
(University of Dublin.)

The University of Dublin and Trinity College are for all practical purposes one and the same body, though each has its own seal. The University is a residential one.

The professional degrees are conferred only on those who have obtained the Bachelor of Arts degree, so that the Dublin degrees are a guarantee of a high general as well as a specialized education.

Terms : Three a year.*Students* : 1,300.

OFFICIALS.

Visitor.—The Chancellor, the Earl of Iveagh, K.P., G.C.V.O., F.R.S., LL.D.*Provost.*—The Rt. Hon. and Most Rev. J. H. Bernard, D.D.*Vice-Provost.*—Rev. T. T. Gray, M.A., S.F., T.C.D.*Senior Lecturer.*—Rev. W. R. W. Roberts, D.D., S.F., T.C.D.*Auditor.*—G. L. Cathcart, M.A., S.F., T.C.D.*Public Orator.*—R. W. Tate, M.A.*Bursar.*—L. C. Purser, Litt.D., S.F., T.C.D.*Senior Dean and Catechist.*—F. A. Tarleton, LL.D., Sc.D., S.F., T.C.D.*Senior Proctor.*—M. W. J. Fry, M.A., S.F., T.C.D.*Registrar.*—E. P. Culverwell, M.A., S.F., T.C.D.

Degrees conferred :

*Degrees.**Hoods.*

B.A.	- -	Black, lined with rabbit skin.
B.A.O.	- -	Black silk, lined olive.
B.Ch.	- -	
B.E.	- -	Black, lined with green.
B.Se.	- -	Black silk, lined gold-coloured silk.
D.Litt.	- -	Scarlet cloth, lined white silk.
D.Sc.	- -	Scarlet cloth, lined blue silk.
LL.B.	- -	Black silk, faced white.
LL.D.	- -	Scarlet cloth, lined with pink silk.
M.A.	- -	Black silk, lined blue silk.
M.A.O.	- -	Black silk, lined and faced purple.
M.E.	- -	White silk, lined green.
M.B.	- -	Black silk, faced scarlet.
M.Ch.	- -	Red silk, lined white, faced blue.
M.D.	- -	Scarlet cloth, lined scarlet silk.
Mus.B.	- -	Blue silk, lined with rabbit skin.
Mus.D.	- -	White figured silk, lined rose-coloured satin.

PROFESSORS.

ARTS.

Professors :

- W. F. Trench, *English Literature*.
 W. E. Thrift, *Natural Philosophy*.
 W. A. Goligher, *Ancient History and Classical Archeology*.
 W. A. Philips, *Modern History*.
 C. F. Bastable, *Political Economy*.
 H. S. Maeran, *Moral Philosophy*.
 R. M. Gwynn, *Biblical Greek*.
 T. F. O'Rahilly, *Irish*.
 Sir L. W. King, *Arabic and Hindustani*.
 H. Canning, *Sanskrit*.
 J. V. S. Pope, *Modern East Indian Languages*.
 (Vacant), *Education*.
 P. C. Buck, *Music*.
 G. Waterhouse, *German*.
 T. D. Rudmoss-Brown, *Romance Languages*.
 J. G. Smyley, *Greek*.
 E. Curtis, *Modern History*.
 G. Wilkins, *Hebrew*.

Junior Fellows who Lecture in Arts:

- R. Russell.
 M. W. J. Fry.
 G. Wilkins.
 H. S. Maeran.
 E. J. Gwynn, *Junior Bursar*.
 G. A. Exham.
 W. E. Thrift.
 J. G. Smyley.
 G. W. Mooney.
 W. Kennedy.
 R. A. P. Rogers.
 W. A. Goligher.
 J. Frazer.
 E. H. Alton.
 R. M. Gwynn, *Hon. Chaplain*.
 G. R. Webb.
 R. W. Tate, *Junior Dean*.
 H. Thrift.
 H. Canning.
 A. A. Luce.
 J. Johnston.
 J. M. Henry.
 F. La Touche Godfrey.
 J. Joly.

Readers :

- J. V. S. Pope, *Tamil, Burmese, Hindu, Bengali, and Marathi*.
 Sir L. W. King, *Indian History*.

Lecturers :

- R. W. Tate, *Classical Composition*.
 E. J. Gwynn, *Celtic Languages*.
 G. Waterhouse, *Anglo-Saxon*.
 E. Deane (Miss), *French*.
 R. W. Tate, *Russian*.
 T. B. Rudmoss-Brown, *Spanish and T. Johnston, Ancient History*.
 C. E. Maxwell (Miss), *Modern History*.
 J. M. Henry, *Education*.

SCIENCE.

Professors :

- H. C. Plummer, *Astronomy*.
 S. Young, *Chemistry*.
 H. H. Dixon, *Botany*.
 E. A. Werner, *Applied Chemistry*.
 J. Joly, *Geology and Mineralogy*.
 M. W. J. Fry, *Natural Philosophy*.
 R. Russell, *Mathematics*.

Lecturers :

- R. A. F. Rogers, *Mathematics*.
 C. H. Rowe
 J. L. Synge
 H. Thrift, *Experimental Science*.
 H. H. Poole
 W. C. Ramsden, *Chemistry*.
 W. R. G. Atkins, *Botany*.
 L. B. Smythe, *Geology and Paleontology*.
 J. R. Cotter

Professors :

LAW.

- C. F. Bastable, *Civil Law*.
 J. S. Baxter, *Feudal and English Law*.
 W. Lowry, *Penal Law*.

MEDICINE AND DENTISTRY.

Professors :

- J. M. Purser, *Physic*.
 E. H. Taylor, *Surgery*.
 A. F. Dixon, *Anatomy and Surgery*.
 T. E. Gordon, *Surgery*.
 H. W. Maekintosh, *Comparative Anatomy and Zoology*.
 E. H. Taylor, *University Anatomist*.
 J. Craig, *Medicine*.
 W. G. Smith, *Materia Medica*.
 H. Pringle, *Physiology*.
 T. H. Wilson, *Midwifery*.
 A. Slotees, *Bacteriology and Preventive Medicine*.
 Sir R. H. Woods, *Laryngology and Otology (Hon.)*.
 W. Beatty, *Dermatology (Hon.)*.

Lecturers :

- A. C. O'Sullivan, *Pathology*.
 A. W. W. Baker, *Dental Surgery and Pathology*.
 J. Coekburn, *Dental Mechanics*.
 E. S. Friel, *Orthodontia*.
 T. P. C. Kirkpatrick, *Anæsthetics*.
 Col. G. Holmes, *Ophthalmology*.

Lecturer :

- H. T. Bewley, *Medical Jurisprudence*.

ENGINEERING.

Professor :

- T. Alexander.

Lecturers :

- J. Frazer, *Mechanics*.
 J. T. Jackson, *Civil Engineering*.
 W. E. Lilly, *Mechanical Engineering*.
 G. M. Harris, *Electric Traction*.
 W. Tatlow, *Electrical Engineering*.

THEOLOGY.

Professors :

Rev. H. A. McNeile, *Divinity* (Regius).
 J. G. F. Day, *Pastoral Theology*.
 Rev. H. J. Lawlor, *Ecclesiastical History*.

Professors—Continued :

N. J. White, *Divinity* (King's).

Lecturers :

J. A. Jennings, *Elocution*.
 Rev. R. M. Gwyun, *Divinity*.
 Rev. A. A. Luce „

Post-Graduate Courses.—In all departments.

Library.—The Library is continually increased by copies of every book published in England. This privilege it enjoys by Act of Parliament, 54 Geo. III., cap. 156. The number of volumes, including MSS., is over 360,000.

The Lecky Library, presented to Trinity College by Mrs. Lecky, consists of about 6,000 volumes, and the books may be lent to students on the recommendation of the Professors. There is also a lending library, which contains a number of volumes intended for the use of students. *Librarian* : J. G. Smyly, Litt.D.

Museums.—There is a large museum of Geology and Mineralogy, and another of Anatomy and Zoology, and there are Departmental Museums in connection with the Medical and Engineering School.

The Astronomical Observatory of Dunswick is owned and supported by the College.

There are several Student Societies, the College Historical Society being the most renowned; it is a reconstruction of the Debating Club founded by Edmund Burke in 1747.

AFFILIATED INSTITUTION.

McCrea Magee College, Londonderry.

NATIONAL UNIVERSITY OF IRELAND, Dublin, Ireland. (1909.)

Constituent Colleges: University College, Dublin; University College, Cork; University College, Galway.

Terms : Three a year.

OFFICIALS.

Chancellor.—His Grace the Most Rev. W. J. Walsh, D.D., Archbishop of Dublin.

Vice-Chancellor.—D. G. Coffey, M.A., M.B., B.Ch., B.A.O., LL.D., President University College, Dublin.

Registrar.—Sir Joseph McGrath, LL.D.

Degrees conferred :

Degrees.

Hoods.

- | | | |
|-----------|---|--|
| Bachelor | - | Dark green Irish poplin, lined throughout with poplin of faculty colour. |
| B.D.S. | - | Which is lined with silver grey, edge to have one inch scarlet. |
| Master | - | Dark green Irish poplin, lined white poplin edged with three inches of poplin of faculty colour. |
| M.A. | - | Lined white, edged three inches blue. |
| M.A.O. | - | Lined white, edged three inches scarlet, one inch gold. |
| M.D.S. | - | Lined white, three inches silver grey, one inch scarlet. |
| M.Sc.P.H. | - | Lined white, edge 3 inches silver lilac, one inch scarlet. |
| Doctor | - | Dark green Irish poplin, lined throughout with poplin of faculty colour. |

Professor : Rev. Peter Finley, *Catholic Theology*.

UNIVERSITY COLLEGE, Dublin, Ireland. (1850.)

Terms : Three a year.

OFFICIALS.

President.—D. J. Coffey, M.A., M.B., B.Ch., B.A.O., LL.D.

Registrar.—A. W. Conway, M.A., D.Sc., F.R.S.

Secretary and Bursar.—J. W. Bacon, M.A.

Librarian.—J. J. O'Neill.

Degrees conferred (by the National University of Ireland).—B.A., B.Mus., M.A., D.Litt., D.Mus., D.Litt.Celt. (Doctor of Celtic Studies), B.Sc., B.Agr.Sc., M.Sc., M.Agr.Sc., D.Sc., LL.B., LL.D., M.B., B.Ch., B.A.O. (Bachelor of Obstetrics), B.Sc., Pub. Health, M.Ch., M.A.O., M.D., D.Sc., Pub. Health, B.D.S. (Bachelor of Dental Surgery), M.D.S., B.E., B.Arch., M.E., M.Arch., B.Comm., M.Comm., Ph.D.

PROFESSORS:

Professors :

- Rev. H. Browne, *Greek*.
 P. Semple, *Latin*.
 H. C. M'Weeney, *Mathematics*.
 R. Donovan, *English Literature*.
 Rev. G. O'Neill, *English Language and Philology*.
 R. Chauvire, *French and Romance Philology*.
 J. M. O'Sullivan, *History*.
 Rev. T. Corcoran, *Theory and Practice of Education*.
 Rev. M. Cronin, *Ethics and Politics*.
 Rev. J. Shine, *Logic and Psychology*.
 W. Magennis, *Metaphysics*.
 R. A. Stewart Macalister, *Celtic Archeology*.
 O. Bergin, *Early and Medieval Irish*.
 D. Hyde, *Modern Irish Language and Literature*.
 J. McNeill, *Early, including Medieval Irish, History*.
 H. Ryan, *Chemistry*.
 H. J. Seymour, *Geology*.
 J. A. M'Clelland, *Experimental Physics*.
 A. W. Conway, *Mathematical Physics*.
 G. Sigerson, *Zoology*.
 E. P. M'Loughin, *Anatomy*.
 B. J. Collingwood, *Physiology and Histology*.
 E. J. M'Weeney, *Pathology and Bacteriology*.
 J. N. Meenan, *Hygiene and Medical Jurisprudence*.
 M. Dempsey, *Materia Medica and Therapeutics*.
 J. F. O'Carroll, *Medicine*.

Professors *Continued* :

- A. J. Smith, *Midwifery and Gynecology*.
 J. S. M'Ardle, *Surgery*.
 J. A. Murnaghan, *Jurisprudence and Roman Law*.
 J. G. S. MacNeill, *Constitutional Law and the Law of Public and Private Wrongs, and Law of Evidence*.
 A. E. Clery, *The Law of Property and the Law of Contracts*.
 P. F. Purcell, *Civil Engineering*.
 C. H. Oldham, *National Economics of Ireland*.
 Rev. T. A. Finlay, *Political Economy*.
 W. A. Scott, *Architecture*.
 B. F. Shields, *Commerce*.
 M. M. Macken (Mrs.), *German*.
 J. B. Butler, *Botany*.
 M. T. Hayden (Miss), *Modern Irish History*.
 L. Werner, *Ophthalmology*.
 J. I. Potter, *Dental Mechanics*.
 E. Sheridan, *Dental Surgery*.
 M. Degani (Miss), *Italian and Spanish*.
 Rev. P. Boylan, *Eastern Languages*.
 J. L. Jones, *Welsh*.
 C. H. Kitson, *Music*.
 R. O'Dwyer, *Irish Music*.

Lecturers :

- D. O'Connor, *Accountancy*.
 F. L. Leet, *Banking and Finance*.
 J. J. Dowling, *Experimental Physics*.
 Rev. M. F. Egan, *Pure Mathematics*.
 W. M. Crofton, *Special Pathology*.
 A. M. W. O'Farrelly (Miss), *Irish Language*.
 J. J. Webb, *Municipal History*.

ROYAL COLLEGE OF PHYSICIANS OF IRELAND, 6, Kildare Street, Dublin.
 (1654.)

OFFICIALS.

- President*.—James Craig, M.D.
Vice-President.—Alfred Parsons, M.D.
Censors.—S. T. Gordon, F.R.C.P.I.; A. R. Parsons, M.D.; S. Sheill, F.R.C.P.I.; W. Boxwell, M.D.
Registrar.—T. P. C. Kirkpatrick, M.D.
Treasurer.—Henry T. Bewley, M.D.

Degrees conferred.—F.R.C.P.I., M.R.C.P.I., L.R.C.P.I., L.M.R.C.P.I., D.P.H.R.C.P. and S.I.

Robes.—

- For Licentiates: B.A. Gown with 3-inch facings of Czar violet poplin silk.
 For Members: M.A. Gown with 4-inch facing, and collar of Czar violet poplin silk.
 For Fellows: M.D. Gown in black velveteen with purple collar and facings; the latter to be 9 inches in width—i.e., 4½ inches showing.
 In the case of University Graduates, the hood of the respective degrees to be also worn on special occasions.

PROFESSORS.

SCHOOL OF PHYSIC.

King's Professors :

- J. Craig, *Practice of Medicine*.
 W. G. Smith, *Materia Medica and Pharmacy*.
 T. H. Wilson, *Midwifery*.
 H. Pringle, *Institutes of Medicine*.

SCHOOL OF SURGERY.

Professors :

- F. C. Purser, *Medicine*.
 E. H. Tweedy, *Midwifery*.
 R. T. Smith, *Materia Medica, Therapeutics and Pharmacy*.

Library.—Library founded under the will of the late Sir Patrick Dun, M.D., Physician General to the Army in Ireland, in the year 1713. Lending and Reference Library, about 13,000 volumes. *Librarian* : Robert Phelps.

ROYAL COLLEGE OF SCIENCE FOR IRELAND, Merrion Street, Dublin. (1845.)

Terms : Three per year.

OFFICIALS.

Dean.—H. H. Jeffcott, B.A.I., M.I.Mech.E.
Registrar.—P. A. E. Dowling, B.A., B.Sc.

Degrees conferred.—A.R.C.Sc.I. and F.R.C.Sc.I.

PROFESSORS.

- J. Wilson, *Agriculture*.
 A. Henry, *Forestry*.
 T. Johnson, *Botany*.
 W. E. Adeney, *Chemistry*.
 G. A. J. Cole, *Geology*.

- H. H. Jeffcott, *Engineering*.
 W. McF. Orr, *Mathematics*.
 G. H. Carpenter, *Zoology*.
 W. Brown, *Physics*.

6 Lecturers, 6 Demonstrators, and 7 Assistant Demonstrators.

The Academic Costume for Associates is a Bachelor's gown of black stuff, a Graduate's cap, and a hood of purple Irish poplin, lined with St. Patrick's blue; the neck-band of Irish poplin edged with St. Patrick's blue; the faculty or group of courses in which the Associateship has been obtained is indicated by the colour of the neck-band as follows: green, Faculty of Agriculture; blue, Faculty of Applied Chemistry; grey, Faculty of Engineering; and purple, Science Teachers' Courses.

The Academic Costume for Fellows is a Doctor's gown of black silk or poplin, with purple facings, saffron buttons, and St. Patrick's blue loops; a cap of beef-eater type, with a cord of St. Patrick's blue and saffron twisted; and a hood as for Associates, except that the neck-band is of saffron, edged with St. Patrick's blue.

Societies.—Students' Union, Scientific and Debating Society, Agricultural Debating Society, Chemical Society, Engineering Society.

The Library contains 25,000 volumes, 10,000 pamphlets, and many maps. *Librarian* : J. Condon.

ROYAL DUBLIN SOCIETY, Leinster House, Dublin. (1731.)

OFFICIALS.

President.—Rt. Hon. Lord Rathdonnell.

Honorary Secretaries.—Sir Joseph McGrath; Bertram H. Barton.

Registrar.—Richard J. Moss.

Agricultural Superintendent.—Edward Bohane.

Librarian and Editor of Scientific Publications.—Arthur H. Foord.

Library, about 50,000 volumes.

Publications.—

"Transactions" (chiefly agricultural), Vol. I.-VI., 1799-1810 (out of print).

"Journal," Vol. I.-VII. (the last), 1856-1876, 8vo.

"Scientific Transactions" (Ser. II.), Vol. I.-IX. (the last), 1877-1908, 4to.

"Scientific Proceedings," Vol. I.-XV. (in progress), 1877-1919, 8vo.

"Economic Proceedings," Vol. I.-II. (in progress), 1899-1919, 8vo.

ROYAL IRISH ACADEMY, 19, Dawson Street, Dublin. (1785.)

OFFICERS.

- President*.—Right Hon. and Most Rev. J. H. Bernard, D.D., D.C.L.,
Provost of Trinity College, Dublin.
Treasurer.—Rev. W. R. W. Roberts, D.D.
Secretary.—J. A. McClelland, Sc.D., F.R.S.
Secretary of Council.—Rev. H. J. Lawlor, D.D., Litt.D.
Librarian.—R. Ll. Praeger, B.E.
Secretary for Foreign Correspondence.—E. J. Gwynn, M.A.
Resident Secretary.—R. Macalister, M.A., LL.D.

Membership.—Not more than seven Members can be elected in one year, at the stated meeting in March.

Publications.—

- The Academy's Publications include "Transactions" (Vols. I.-XXXIII.), "Proceedings" (Vols. I.-XXXV.) in three sections.
Section A: Mathematical, Astronomical, and Physical Sciences.
Section B: Biological, Geological, and Chemical Sciences.
Section C: Archeology, Linguistic, and Literature.
Also Cunningham Memoirs (Vols. I.-XI.), Todd Lecture Series (Vols. I.-XVII.), Irish Facsimiles (Folio).

PHARMACEUTICAL SOCIETY OF IRELAND, 67, Lower Mount Street, Dublin. (1875.)

- Registrar*.—A. T. Ferrall.
Head of Chemistry School.—Prof. H. Normenton.
Head of Botany School.—W. H. Hopkins Ashmore.
Head of Materia Medica School.—P. O'Connor.

DUNEDIN (New Zealand).

UNIVERSITY OF OTAGO, Dunedin, New Zealand. (1869.)

An affiliated Institution of the University of New Zealand (*q.v.*).

Terms: Three per year.

OFFICIALS. See **NEW ZEALAND UNIVERSITY**.

Degrees and Hoods.—See **NEW ZEALAND UNIVERSITY**.

PROFESSORS.

Professors:

- T. Gilray, *English Language and Literature*.
W. B. Benham, *Biology*.
J. Park, *Mining and Mine and Land Surveying* (and Director of School of Mines).
J. Malcolm, *Physiology*.
(Vacant), *Pure and Applied Mathematics*.
H. P. Pickerill, *Dentistry* (and Director of Dental School).
(Vacant), *Practice of Medicine*.
H. L. Ferguson, *Ophthalmology* (and Dean of Medical Faculty).
(Vacant), *Medical Jurisprudence*.
L. E. Barnett, *Surgery*.
D. B. Waters, *Metallurgy and Assaying*.
W. L. Boys-Smith (Miss), *Home Science and Domestic Arts*.
J. K. H. Inglis, *Chemistry*.

Professors—Continued:

- S. T. Champtaloup, *Bacteriology and Public Health*.
R. Jack, *Natural Philosophy*.
F. W. Dunlop, *Mental and Moral Philosophy*.
W. P. Gowland, *Anatomy*.
A. M. Drennan, *Pathology*.
(Vacant), *Economics and History*.
G. E. Thompson, *Modern Languages*.
W. N. Benson, *Geology and Mineralogy*.
T. D. Adams, *Classics*.

Lecturers:

- F. Truby King, *Mental Diseases*.
M. Watt, *Hebrew*.
W. G. Hay, *Jurisprudence*.
W. Newlands, *Surgery*.
F. R. Riley, *Midwifery and Gynecology*.
F. W. B. Fitchett, *Materia Medica*.
J. Lang, *Constitutional History*.

Lecturers—Continued :

- A. A. Finch, *Property, Part I.*
 C. G. White, *Procedure and Property, Part II.*
 J. B. Calan, *Torts.*
 C. N. Scurr, *Criminal Law.*
 A. C. Stephens, *Contracts.*
 H. S. Adams, *Evidence.*
 G. H. Rawson, *Household Economics, Applied Chemistry, etc.*

Lecturers—Continued :

- G. W. Reid, *Accountancy.*
 E. Pinder, *Education.*
 E. H. Williams, *Diseases of Children.*
 A. J. Hall, *Ear, Nose, and Throat.*
 The Honorary Staff of the Dunedin Hospital, *Clinical Medical and Clinical Surgery.*
 6 Assistants, 2 Tutors.

DURHAM.

UNIVERSITY OF DURHAM, Durham, England. (1832.)

Including: Durham Colleges at Durham.
 College of Medicine at Newcastle-on-Tyne.
 Armstrong College at Newcastle-on-Tyne.

Terms : Three per year.

Students : 1,498.

OFFICIALS.

Chancellor.—The Right Hon. The Earl of Durham, K.G., G.C.V.O., D.C.L.

Vice-Chancellor.—David Drummond, M.A., D.C.L.

Pro-Vice-Chancellors.—

J. S. G. Pemberton, M.A., D.C.L.; Sir T. Morrison, K.C.S.I., K.C.I.E., M.A.;

F. B. Jevons, M.A., D.Litt.

Registrar.—H. G. Theodosius, M.A., B. es L.

Treasurer.—F. W. Ritson, M.A.

Degrees conferred :

Degrees.

Hoods.

- D.D. - - Scarlet cassimere, lined with palatinate purple silk.
 B.D. - - Black corded silk, lined with black silk.
 M.A. - - Black silk, lined with palatinate purple silk.
 B.A. - - Black stuff, trimmed with white fur.
 D.C.L. - - Scarlet cassimere, lined with white silk.
 B.C.L. - - Palatinate purple silk, bound with white fur.
 M.D. - - Scarlet cassimere, lined with scarlet silk, faced with palatinate purple silk.
 M.B. - - Scarlet silk, lined with palatinate purple silk, and bound with white fur.
 M.S. - - Rose silk, lined with palatinate purple silk.
 B.S. - - Rose silk, lined with palatinate purple silk, bound with white fur.
 D.Hy. - - Scarlet cloth, lined with scarlet silk, faced with palatinate purple and white silk.
 B.Hy. - - Black silk, faced with palatinate purple and scarlet silk, and bound with white fur.
 D.Sc. - - Palatinate purple cassimere, lined with scarlet silk.
 M.Sc. - - Black silk, lined with palatinate purple silk, and bound with scarlet silk half an inch wide both sides.
 B.Sc. - - Palatinate purple silk, bound with white fur, and with a scarlet band half an inch wide next to the fur.
 D.Litt. - - Scarlet cassimere, lined with old gold satin.
 M.Litt. - - Black corded silk, lined with old gold satin.
 B.Litt. - - Old gold satin, edged with fur.
 Mus.D. - - Brocaded white satin, lined with palatinate purple silk.
 Mus.B. - - Palatinate purple silk, bound with brocaded white satin one inch wide.
 M.Com. - - Black silk, lined with cerise silk.
 B.Com. - - Black silk, lined with cerise silk, and edged with white fur.
 L.Th. - - Black stuff, faced with velvet, and bound with palatinate purple silk, quarter-inch wide, and velvet one inch wide.
 Ph.D. - - Scarlet cassimere, lined with scarlet silk and bound on all edges with palatinate silk one inch wide.

PROFESSORS.

DURHAM COLLEGES.

Professors :

- Rev. D. Walker, *Divinity and Ecclesiastical History*.
 Rev. H. Cruickshank, *Greek and Classical Literature*.
 P. J. Heawood, *Mathematics*.
 Ven. H. W. Watkins, *Hebrew*.
 F. B. Jevons, *Philosophy*.
 Rev. H. Ellershaw, *English Language and Literature*.
 Rev. J. H. How, *Latin*.
 A. Robinson, *Logic and Psychology*.
 C. F. Herdener, *Modern Languages*.
 J. C. Bridge, *Music*.

Lecturers :

- J. L. Burchnall, *Mathematics*.
 (Vacant), *History*.
 Rev. E. G. Pace, *Theology and Hebrew*.
 W. D. Lowe, *Classics*.
 (Vacant), *Education*.
 C. L. Wrenn, *English*.
 (Vacant), *Economics*.
 Captain A. A. Macfarlane-Grieve, *Military Science*.
 F. Sargent, *Astronomy and Observer*.

COLLEGE OF MEDICINE.

Professors :

- D. Drummond, *Principles and Practice of Medicine*.
 Sir Thomas Oliver, *Principles and Practice of Medicine*.
 J. Middlemass, *Psychological Medicine*.
 J. R. Morrison, *Surgery*.
 H. B. Angus
 R. P. R. Lyle, *Midwifery and Gynecology*.
 J. D. Wardale, *Ophthalmology*.
 T. Beattie, *Therapeutics*.
 S. McDonald, *Pathology and Clinical Pathology*.
 H. J. Hutchens, *Comparative Pathology and Bacteriology*.
 R. A. Bolam, *Medical Jurisprudence*.
 T. E. Hill, *Public Health*.
 W. E. Hume, *Materia Medica and Pharmacology*.
 R. Howden, *Anatomy*.
 J. A. Menzies, *Physiology*.

Post-Graduate Courses.—Doctor of Philosophy (Ph.D.), Bachelor of Divinity (B.D.), Diploma in Theology (Dip.Th.), Diploma in Public Health (D.P.H.), Diploma in the Theory and Practice of Teaching (D.Th.P.T.).

Libraries.—38,000 volumes, including Lightfoot, Maltby, Routh and Winterbottom collections. *University Librarian* : E. V. Stocks.

AFFILIATED INSTITUTIONS.

Codrington College, Barbados.

Fourah Bay College, Sierra Leone.

Lecturers :

- G. G. Turner, *Surgery*.
 S. S. Whillis, *Diseases of the Throat, Nose, and Ear*.
 R. A. Bolam, *Diseases of the Skin and Clinical Dermatology*.
 O. W. Ogden, *Diseases of Children*.
 F. H. A. Clayton, *Comparative Pathology and Bacteriology*.
 J. Clay, *Applied Anatomy*.

ARMSTRONG COLLEGE.

Professors :

- C. M. Jessop, *Mathematics*.
 T. H. Havelock, *Applied Mathematics and Mathematical Physics*.
 H. Stroud, *Physics*.
 P. P. Bedson, *Chemistry*.
 S. Smiles, *Organic Chemistry*.
 T. F. Sibly, *Geology*.
 A. Meek, *Zoology*.
 M. C. Potter, *Botany*. [Economy.
 D. A. Gilchrist, *Agriculture and Rural*
 R. L. Weighton, *Engineering*.
 J. J. Welch, *Naval Architecture*.
 W. M. Thornton, *Electrical Engineering*.
 H. Louis, M.A., *Mining and Surveying*.
 J. W. Duff, *Classics and Ancient History*. [Literature.
 A. Mawer, *English Language and*
 K. H. Vickers, *Modern History*.
 T. Loveday, *Mental and Moral Philosophy*.
 A. G. Latham, *Modern Languages*.
 H. M. Hallsworth, *Economics*.
 M. R. Wright, *Education*.
 R. G. Hatton, *Fine Art*.
- Lecturers :**
 G. W. Caunt, *Mathematics*.
 H. Morris-Airey, *Physics*.
 F. C. Garrett, *Chemistry*.
 J. A. Smythe
 D. Woolacott, *Geology*.
 A. D. Peacock, *Zoology*.
 S. Mangham, *Botany*.
 F. P. Walter, *Agriculture*.
 J. Morrow, *Engineering*.
 W. W. Firth, *Electrical Engineering*.
 F. H. Alexander, *Naval Architecture*.
 H. Dean, *Mining and Surveying*.
 S. Wragge (Miss), *English Literature*.
 G. H. Thomson, *Education*.

DURHAM (New Hampshire).
EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.
Director.—J. C. Kendall.

DYAL SINGH COLLEGE. See LAHORE.

EAST LANSING (Michigan).
EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.
Director.—R. S. Shaw.

EASTON (Pennsylvania).
LAFAYETTE COLLEGE, Easton, Pa. (1832.)

Terms: Two per year.

Budget: 1917-18, \$153,912. 66

Students: 1916-17, 634; 1917-18, 448; 1918-19, 462; 1919-20, 704.

OFFICIALS.

President.—John H. MacCracken, Ph.D., LL.D.

Dean of the College.—Albert K. Heckel, Ph.D.

Dean of the Pardee Scientific Department.—Edward Hart, Ph.D.

Registrar.—W. Maekay Smith, Ph.D.

Bursar.—Albert M. Lane, Ph.B.

Clerk of the Faculty.—William S. Hall.

Degrees conferred.—A.B., B.S., B.S. in Civil Engineering, B.S. in Chemical Engineering, B.S. in Electrical Engineering, B.S. in Mechanical Engineering, B.S. in Mining Engineering, B.S. in Chemistry.

Two-year pre-medical course not leading to a degree.

PROFESSORS.

FACULTY OF ARTS.

Professors:

F. A. March, jr., *English Language.*

J. W. Tupper, *English Literature.*

E. M. Rankin, *Greek.* [*ophy.*

S. A. Martin, *Mental and Moral Philos.*

C. D. Fehr, *Modern Languages.*

A. K. Heckel, *History.*

J. H. S. Bossard, *Government and Eco-*

H. McA. Robinson, *Bible.* [*nomics.*

J. R. Crawford, *Latin.*

Assistant Professor:

J. B. Hopkins, *Romance Languages.*

FACULTY OF SCIENCE.

Professors:

W. S. Hall, *Mathematics.*

E. M. Green, *Consulting Physician, Department of Physical Training.*

F. B. Peck, *Mineralogy and Geology.*

C. McC. Gordon, *Physics.*

W. M. Smith, *Mathematics.*

B. W. Kunkel, *Biology.*

E. C. Bingham, *Chemistry.* [*Tactics.*

W. F. Fos, *Military Science and*

Associate Professors:

J. H. Wilson, *Chemistry.*

H. C. Chapin, *Chemistry.*

Assistant Professors:

W. T. Foster, *Biology.*

D. A. Hatch, *Mathematics.*

J. H. DeLong, *Chemistry.*

H. J. Lockwood, *Physics.*

J. Cawley, *Mathematics.*

FACULTY OF ENGINEERING.

Professors:

E. Hart, *Chemical Engineering.*

A. H. Fuller, *Civil Engineering.*

D. B. Prentice, *Mechanical Engineering.*

Assistant Professors:

W. B. Marquard, *Mining Engineering.*

H. T. Spengler, *Surveying and Railroad Engineering.*

H. M. Spandau, *Drawing.*

F. G. Allen, *Electrical Engineering.*

H. S. Roger, *Civil Engineering.*

R. S. Wilbur, *Mechanical Engineering.*

13 Instructors and a Director of Physical Training.

Post-Graduate Courses.—A.M., M.S.

Libraries.—

Van Wickle Library, 45,000 volumes.

Oliver Library, 2,500 volumes.

Literary Societies, 5,000 volumes.

EDINBURGH.

UNIVERSITY OF EDINBURGH, Edinburgh. (1583.)

Terms : Three per year.

Students (1918-19) : 3,554.

OFFICIALS.

Chancellor.—Right Hon. Arthur J. Balfour, M.P., D.C.L., LL.D.

Vice-Chancellor and Principal.—Sir James A. Ewing, K.C.B., M.A., LL.D.

Secretary.—William Wilson, M.A., LL.B., Advocate.

Degrees conferred :

Degrees.	Hoods.
LL.D. - -	Black cloth, with appended cape, lined with blue silk.
LL.B. - -	Black silk, lined with blue silk, bordered with white fur.
B.L. - -	Black silk, edged with blue silk three inches broad, trimmed with white fur.
D.D. - -	Black cloth, lined with purple silk.
B.D. - -	Black silk, lined with purple silk, bordered with white fur.
M.D. - -	Black cloth, with appended cape, lined and faced with crimson silk.
Ch.M. - -	Black velvet, lined with golden silk.
M.B. and Ch.B.	Black silk, lined with crimson silk, bordered with white fur.
D.Sc. - -	Black cloth, lined with green silk.
B.Sc. - -	Black silk, lined with green silk, bordered with white fur.
M.A. - -	Black silk, lined with white silk.
D.Litt. - -	Black cloth, lined with royal blue and maize shot silk.
D.Phil. - -	Black cloth, lined with Vesuvius and white shot silk.
Mus.D. - -	Rich scarlet cloth, with rich white corded silk lining.
Mus.B. - -	Scarlet silk, with white silk lining, edged with white fur.
Ed.B. - -	Black silk, lined with pale blue silk, edged with white fur.
B.Com. - -	Black Silk, lined with pale primrose yellow silk, edged with white fur.

PROFESSORS.

FACULTY OF ARTS.

Professors :

- H. J. C. Grierson, *Rhetoric and English Literature*.
 O. L. Richmond, *Humanity*.
 A. W. Mair, *Greek*.
 A. B. Keith, *Sanskrit and Comparative Philology*.
 W. J. Watson, *Celtic Languages, Literature, History, and Antiquities*.
 C. Sarolea, *French*.
 E. T. Whittaker, *German*.
 C. G. Barkle, *German*.
 N. K. Smith, *Logic and Metaphysics*.
 J. Seth, *Moral Philosophy*.
 Sir R. Lodge, *History*.
 R. K. Hannay, *Ancient History and Paleography*.
 J. S. Nicholson, *Commercial and Political Economy and Mercantile Law*.
 G. B. Brown, *Fine Art*.
 A. Darroch, *Theory, History, and Practice of Education*.

FACULTY OF SCIENCE.

Professors :

- E. T. Whittaker, *Mathematics*.
 C. G. Barkla, *Natural Philosophy*.

Professors—Continued :

- R. A. Sampson, *Astronomy*.
 J. Walker, *Chemistry*.
 J. S. Ewart, *Natural History*.
 J. B. Balfour, *Botany*.
 T. J. Jehu, *Geology*.
 T. H. Beare, *Engineering*.
 R. Wallace, *Agriculture and Rural Economy*.

FACULTY OF DIVINITY.

Professors :

- W. P. Paterson, *Divinity*.
 W. A. Curtis, *Biblical Criticism and Biblical Antiquities*.
 J. Mackinnon, *Ecclesiastical History*.
 A. R. S. Kennedy, *Hebrew and Semitic Languages*.

FACULTY OF LAW.

Professors :

- Sir L. J. Grant, *Public Law*.
 J. Mackintosh, *Civil Law*.
 J. H. Millar, *Constitutional Law and Constitutional History*.
 J. Rankine, *Scots Law*.

J. L. Mounsey, *Conveyancing*.

FACULTY OF MEDICINE.

Professors :

- G. Barger, *Chemistry in Relation to Medicine.*
 A. Robinson, *Anatomy*
 Sir A. E. S. Schafer, *Physiology.*
 J. L. Smith, *Pathology.*
 A. R. Cushny, *Materia Medica.*
 G. L. Gulland, *Medicine.*
 H. A. Thomson, *Surgery.*
 Sir J. H. Croom, *Midwifery.*
 H. Littlejohn, *Forensic Medicine.*
 Sir H. Stiles, *Clinical Surgery.*
 G. L. Gulland, *Clinical Medicine.*
 J. C. Meakins, *Clinical Medicine.*
 F. D. Boyd, *Clinical Medicine.*
 C. H. Stewart, *Public Health.*
 J. Ritchie, *Bacteriology.*
 Sir R. W. Philip, *Tuberculosis.*
 J. C. Meakins, *Therapeutics.*

LECTURERS.

Lecturers :

- A. B. Webster, *Rhetoric and English Literature.*
 G. Kitchin, *Rhetoric and English Literature.*
 B. Dickins, *Rhetoric and English Literature.*
 J. Mill, *Latin.*
 J. F. Mountford, *Latin.*
 (Vacant), *Greek.*
 E. Robertson, *Arabic.*
 C. Tweedie, *Mathematics.*
 E. M. Horsburgh, *Mathematics.*
 D. Gibb, *Mathematics.*
 R. W. Brink, *Mathematics.*
 G. Smeal, *Mathematics.*
 A. E. Sprague, *Actuarial Science.*
 C. G. Knott, *Applied Mathematics.*
 G. A. Carse, *Natural Philosophy.*
 J. R. Milne, *Natural Philosophy.*
 H. S. Allen, *Natural Philosophy.*
 R. P. Hardie, *Ancient Philosophy.*
 J. Drever, *Psychology.*
 H. Barker, *Moral Philosophy.*
 M. Burns (Miss), *French.*
 O. Schlapp, *German.*
 H. F. Eggeling, *German.*
 E. Grillo, *Italian.*
 B. S. Cano, *Spanish.*
 H. C. Brennan, *Russian.*
 D. P. Heatley, *Ancient History (Greek and Roman).*
 G. G. Chisolm, *Geography.*
 A. B. Lennie (Miss), *Geography.*
 J. B. Guild, *Political Economy.*
 W. H. Myles, *Realistic Economics.*
 (Vacant), *Organization of Industry and Commerce.*
 J. F. Rees, *Economic History.*
 A. M'Neil, *Banking (Charles Bruce Lectureship).*

Lecturers—Continued :

- G. A. Carse, *Statistics and Mathematical Economics.*
 J. Ewing, *Colonial and Indian History.*
 D. Kennedy-Fraser, *Education.*
 L. Dobbin, *Chemistry.*
 J. E. Mackenzie, *Chemistry.*
 S. A. Kay, *Chemistry.*
 H. G. Rule, *Chemistry.*
 A. M. Williams, *Chemistry.*
 D. Balsillie, *Chemistry.*
 J. D. M. Ross, *Chemistry.*
 A. C. Cumming, *Technical Chemistry.*
 R. Campbell, *Petrology.*
 T. M. Finlay, *Paleontology.*
 J. L. S. Smith, *Botany.*
 R. W. Pealling, *Plant Physiology.*
 W. G. Crail, *Forest Botany and Indian Forest Trees.*
 M. Wilson, *Mycology and Bacteriology.*
 W. W. Taylor, *Chemical Physiology.*
 M. L. Walker (Miss), *Experimental Physiology.*
 R. K. S. Lim, *Histology.*
 A. N. Bruce, *Physiology of the Nervous System.*
 W. H. Kerr, *Engineering Drawing and Structural Design.*
 J. B. Todd, *Surveying and Hydraulics.*
 W. Gordon, *Strength of Materials and Forest Engineering.*
 H. C. Gardham, *Geometrical and Graphical Drawing.*
 J. A. S. Watson, *Agriculture.*
 J. L. Pike, *Forestry.*
 D. C. Fergusson, *Forestry.*
 R. Stewart MacDougall, *Agricultural Entomology and Forest Zoology.*
 (Vacant), *Anthropology and Prehistoric Archeology.*
 O. C. Bradley, *Comparative Anatomy.*
 G. F. Stout, *Gifford Lecturer on Natural Theology.*
 Rev. C. Campbell, *Gunning Lecturer.*
 D. O. Dykes, *International Private Law.*
 W. J. Lewis, *Evidence and Procedure.*
 (Vacant), *Landlord and Tenant.*
 P. F. Wood, *Administrative Law.*
 H. Aitken, *Mercantile Law.*
 H. B. Murdoch, *English Law.*
 W. G. Sym, *Diseases of the Eye.*
 J. V. Paterson, *Diseases of the Eye.*
 J. S. Fowler, *Clinical Instruction on Diseases of Children.*
 J. Beard, *Comp. Embryology and Vertebrate Morphology.*
 (Vacant), *Genetics.*
 E. B. Jamieson, *Anatomy.*
 F. E. Jardine, *Anatomy.*
 W. Q. Wood, *Anatomy.*
 W. C. Sillar, *Experimental Pharmacology.*
 D. M. Lyon, *Practical Pathology.*

Lecturers—Continued :

- J. Miller, *Morbid Anatomy*.
 J. M. Graham, *Surgical Pathology*.
 (Vacant), *Orthopedics*.
 A. L. Turner, *Diseases of the Larynx, Ear and Nose*.
 J. M. Farquharson, *Diseases of the Larynx, Ear and Nose*.
 Lt.-Col. D. G. Marshall, *Diseases of Tropical Climates*.
 N. Walker, *Clinical Instruction on Diseases of the Skin*.
 F. Gardiner, *Clinical Instruction on Diseases of the Skin*.
 A. James, *Infective Fevers*.
 C. B. Ker, *Infective Fevers*.
 J. W. Ballantyne, *Midwifery (to Women)*.
 A. H. F. Barbour, *Systematic and Clinical Gynecology*.
 N. T. Brewis, *Systematic and Clinical Gynecology*.
 J. H. Ferguson, *Systematic and Clinical Gynecology*.
 W. Fordyce, *Systematic and Clinical Gynecology*.
 J. D. Comrie, *History of Medicine*.

CLINICAL SURGERY.

- | | |
|---------------------------|--------------------|
| Senior Lecturers : | Lecturers : |
| Prof. A. Thomson. | G. L. Chiene. |
| J. W. B. Hodsdon. | W. J. Stuart. |
| D. Wallace. | J. W. Struthers. |
| A. Miles. | H. Wade. |
| J. W. Dowden. | D. P. D. Wilkie. |
| A. A. S. Skirving. | J. Fraser. |
| | J. M. Graham. |
| | A. P. Watson. |
| | F. E. Jardine. |

CLINICAL MEDICINE.

- | | |
|---|--------------------|
| Senior Lecturers : | Lecturers : |
| Prof. Sir R. W. Philip. | E. Matthew. |
| R. A. Fleming. | W. T. Ritchie. |
| H. Rainy. | J. Eason. |
| D. C. Watson. | J. D. Comrie. |
| E. Bramwell. | A. Goodall. |
| | C. M'Neil. |
| J. J. Graham Brown, <i>Neurology</i> . | |
| H. Rainy, <i>Physical Methods in the Treatment of Disease</i> . | |
| M. Shirlaw, <i>Music</i> . | |
| 56 Assistants. | |

Post-Graduate Courses in Medicine and Surgery and in various Departments of the Faculties of Arts, Science and Divinity.

A notable development is the institution of Post-Graduate Courses in many subjects, more especially in view of the Ph.D. Degree now being instituted.

Museums.—Natural Philosophy, Fine Art, Geological, Natural History, Chemistry, Forestry, Agricultural Entomology, Anatomical, Physiology, Materia Medica, Forensic Medicine, Practice of Physic, Surgical, Obstetrical, and Music Museums.

Libraries.—The University Library. *Librarian*: F. C. Nicholson. Theological, Sellar and Goodhart (Classical), Philosophical, History, Physiology, Astronomy, Modern Languages, Natural Philosophy, Geology, Engineering, and Music Libraries.

No Institutions expressly affiliated, but the following contribute to the education of Students of Science:

- Heriot-Watt College.
- Edinburgh and East of Scotland College of Agriculture.
- Dick Veterinary College.

SCHOOL OF MEDICINE OF THE ROYAL COLLEGES, Edinburgh. (1505.)

Terms: Two per year. *Students*: Winter Session (1918-19), 374.

OFFICIAL.

Dean of the School.—R. Cranston Low, M.B., F.R.C.P.

LECTURERS.

- | | |
|--|--|
| T. W. Drinkwater, <i>Chemistry</i> . | J. J. G. Brown, <i>Neurology and Clinical Medicine</i> . |
| H. Miller, <i>Zoology</i> . | H. Rainy, <i>Clinical Medicine</i> . |
| C. R. Whitaker, <i>Biology</i> . | C. Watson, " " |
| D. Turner, <i>Physics</i> . | E. Bramwell, " " |
| J. R. Whitaker, <i>Anatomy</i> . | N. T. Brewis, <i>Clinical Gynecology</i> . |
| A. Goodall, <i>Physiology</i> . | A. A. S. Skirving, <i>Surgery</i> . |
| J. Orr, <i>Materia Medica</i> . | J. Hodsdon, <i>Clinical Surgery</i> . |
| J. Miller, <i>Pathology and Bacteriology</i> . | D. Wallace, <i>Clinical Surgery</i> . |
| R. A. Fleming, <i>Medicine</i> . | A. Miles, <i>Clinical Surgery</i> . |
| Sir R. W. Philip, <i>Clinical Medicine</i> . | |

LECTURERS—*Continued* ;

J. W. Dowden, *Clinical Surgery*.
 H. Wade, *Surgery*.
 D. B. Hart, *Midwifery and Gynecology*.
 W. G. A. Robertson, *Vaccination, Forensic Medicine, Medical Jurisprudence and Public Health*.
 W. D. D. Small, *Vaccination*.

J. V. Paterson, *Diseases of the Eye*.
 J. M. Farquharson, *Diseases of the Ear, Nose, and Throat*.
 J. S. Fraser, *Diseases of the Ear, Nose, and Throat*.
 A. D. Fordyce, *Diseases of Children*.
 J. Guy, *Tuberculosis*.
 Lt.-Col. J. Keay, *Mental Diseases*.

Post-Graduate Courses.—The School of Medicine of the Royal Colleges holds Post-Graduate Courses conjointly with the Edinburgh University.

AFFILIATED INSTITUTIONS.

Surgeons' Hall and New School of Medicine.

ROYAL COLLEGE OF PHYSICIANS OF EDINBURGH (Incorporated by Royal Charter, 1681), Hall and Library, 9 Queen St., Edinburgh.

President.—Sir Robert Philip.
Vice-President.—Dr. A. H. F. Barbour.
Secretary.—Dr. J. S. Fowler.
Treasurer.—Dr. Norman Walker.
Librarian.—Dr. Berry Hart.
Sub-Librarian.—T. H. Graham, O.B.E.
Clerk.—A. Gray Muir, W.S.
Auditor.—J. Wilson Brodie, C.A.
Representative in General Medical Council.—Dr. W. Russell.

RESEARCH LABORATORY, 2, Forrest Road, Edinburgh.

Curator.—Dr. J. J. Graham-Brown.
Superintendent.—Dr. J. Ritchie, Secundus.
Assistant Superintendent.—Dr. J. P. McGowan.
Neurological Histologist.—Dr. J. W. Dawson.

HERIOT-WATT COLLEGE, Chambers Street, Edinburgh. (1821.)

Terms : Day Classes, October to March, April to June.

Evening Classes, October to March.

Students : Day, 250; Evening, 3,000.

Budget :

Expenditure	£19,776.
Income (including Government Grant) ..	£10,719.

OFFICIALS.

Governors.—The Governors of George Heriot's Trust.
Chairman.—The Rt. Hon. The Lord Provost of Edinburgh.
Convener of Heriot-Watt College Committee.—Bailie Barrie, J.P.
Principal.—A. P. Laurie, M.A., D.Sc.
Clerk to the Governors.—Peter Maenaughton, S.S.C.

No Degrees granted by College. Classes recognized by Universities of London and Edinburgh for degree of B.Sc. Diplomas are granted in Departments of Mechanical Engineering, Electrical Engineering, Applied Chemistry, and Mining Engineering.

PROFESSORS.

R. Stanfield, <i>Mechanical Engineering</i> .	A. A. Boon, <i>Applied Chemistry</i> .
F. G. Baily, <i>Electrical Engineering</i> .	H. Briggs, <i>Mining Engineering</i> .

2 Lecturers, Heads of Departments, and a large staff of Assistants.

ROYAL (DICK) VETERINARY COLLEGE, Edinburgh. (1823.)

Terms : Three per year.

Principal.—O. Charnock Bradley, M.D., D.Sc., M.R.C.V.S.
Secretary.—F. P. Milligan.

Degrees conferred.—Students are eligible to take the Diploma of Membership of the Royal College of Veterinary Surgeons (M.R.C.V.S.) and the degree of B.Sc. in Veterinary Science of the University of Edinburgh.

PROFESSORS.

O. C. Bradley, <i>Anatomy.</i>	|	D. C. Matheson, <i>Pathology.</i>
G. H. Gemmell, <i>Chemistry.</i>	|	R. G. Linton, <i>Hygiene and Dietetics.</i>
R. S. Macdougall, <i>Biology.</i>	|	W. M. Wilson, <i>Surgery.</i>
H. Dryerre, <i>Physiology.</i>	|	J. Russell Greig, <i>Medicine.</i>

2 Assistants and 1 House Surgeon.

Post-Graduate Courses in Pathology, Bacteriology, etc. Courses for Diploma in Veterinary State Medicine (D.V.S.M.).

FREE CHURCH COLLEGE, The Mound, Edinburgh. (1843.)

Session : October to March.

Principal.—Rev. J. D. McCulloch, D.D.

Clerk of Senatus.—Rev. R. Moore.

Classes recognized by all the Scottish Universities as qualifying for admission to examination for B.D. degree.

PROFESSORS.

Rev. W. M. Alexander, <i>Apologetics, Natural Science, Homiletics, Pastoral Theology, Missions.</i>	|	Rev. R. Moore, <i>Hebrew and Old Testament Exegesis.</i>
Rev. C. A. Bannatyne, <i>Church History and Church Principles.</i>	|	Rev. J. K. Cameron, <i>Systematic Theology.</i>
	|	Rev. J. R. MacKay, <i>New Testament Exegesis.</i>

1 Lecturer.

Post-Graduate Courses.—Divinity Course for candidates for the Ministry and for the B.D. degree in the Scottish Universities.

Museums.—

Geological, Botanical and Zoological Museum, containing more than 4,000 specimens.

Biblical Museum, containing articles collected in Palestine and adjacent countries by the late Wm. Dickson.

Library of about 17,000 volumes. *Librarian* : Professor Alexander.

NEW COLLEGE, Mound, Edinburgh. (1846.)

Terms : Three per year.

Students : Average, 80.

Principal.—Alex. Marvin, D.D.

Degrees.—B.A. and M.A., obtained at the University before entering New College; B.D. after concluding course.

PROFESSORS.

Alex. Martin, <i>Apologetics.</i>	|	Hugh Watt, <i>Church History.</i>
H. R. Mackintosh, <i>Systematic Theology.</i>	|	Adam C. Welch, <i>Old Testament.</i>
H. A. A. Kennedy, <i>New Testament.</i>	|	J. Y. Simpson, <i>Natural Science.</i>

1 Lecturer, 1 Tutor.

Post-Graduate Courses.—Special Courses for Students from America and elsewhere for obtaining the Degree of Ph.D. at the University.

Societies.—

Theological Society.

Missionary Society.

Librarian : J. Kennedy, D.D. *Assistant Librarian* : D. M. W. Laird, M.A.

EDINBURGH AND EAST OF SCOTLAND COLLEGE OF AGRICULTURE

No particulars received.

ROYAL SOCIETY OF EDINBURGH, 22, George Street, Edinburgh. (1783.)

OFFICIALS.

President.—Prof. F. O. Bower, M.A., D.Sc., LL.D., F.R.S.
General Secretary.—Cargill G. Knott, D.Sc., LL.D.
Secretaries to Ordinary Meetings.—
 Prof. E. T. Whittaker, Sc.D., F.R.S.
 Prof. J. H. Ashworth, D.Sc., F.R.S.
Treasurer.—James Currie, M.A., LL.D.
Curator of Library and Museum.—A. Crichton Mitchell, D.Sc.
Librarian and Assistant Secretary.—G. A. Stewart.
Assistant Librarian.—Miss E. Harivel.
Number of Ordinary Fellows: Over 600.
Honorary Fellows: British, 20; Foreign, 36.

Meetings.—Statutory: Held on the fourth Monday of October. Ordinary: For reading and discussing communications and for general business, are held on the first and third Mondays of each month, from November to March, and from May to July, inclusive, with the exception that in January the meetings are held on the second and fourth Mondays.

Publications.—

Transactions.
 Proceedings.

Library.—Contains 50,000 volumes, forming the most complete Scientific Reference Library in Scotland.

ROYAL BOTANIC GARDEN, Edinburgh. (1670.)

One of the three Gardens maintained by the State in the United Kingdom. It has an area of 57.6 acres. Open daily from 9 a.m. on week-days and from 11 a.m. on Sundays until sunset, free. The plant-houses are open from 1 p.m. until 5.30 p.m., or until sunset if this be earlier.

STAFF.

Regius Keeper.—Isaac Bayley Balfour, M.A., M.D., F.R.S.
Assistant Keeper.—William Wright Smith, M.A., F.L.S., F.R.S.E.
Assistant in Herbarium.—William Edgar Evans, B.Sc.
Assistant in Laboratory.—Matthew Young Orr.
Assistant in Library.—James Todd Johnstone, M.A., B.Sc.
Assistant in Museum.—Harry Frank Tagg, F.L.S.
Assistant in Studio.—Robert Moyes Adam.
Head Gardener.—Robert Lewis Harrow, F.R.H.S.
Plant Propagator.—Lawrence Baxter Stewart.

Courses.—In Horticulture, Forestry and allied Sciences for Gardeners and Foresters. The Laboratories are open to anyone desirous of undertaking Botanical Research. The Botanical Department of the University of Edinburgh carries out its work in the Lecture Rooms and Laboratories of the Garden.

GEOLOGICAL SURVEY OF SCOTLAND. See LONDON.

EDMONTON (Alberta).

UNIVERSITY OF ALBERTA, Edmonton, Alberta, Canada. (1908.)

Terms, one per year—October to May. *Students,* 600.
Budget, current, \$339,493. *Capital,* \$300,000.

OFFICIALS.

Visitor.—Hon. Robert George Brett, M.D., LL.D., Lieut.-Governor of Alberta.
Chancellor.—Hon. Chas. Allen Stuart, B.A., LL.B., LL.D.
Vice-Chancellor.—Hon. Nicholas Dubois Dominic Beek, LL.B.
President.—Henry Marshall Tory, M.A., D.Sc., LL.D., F.R.C.S.
Chairman of Board of Governors.—Hon. Horace Harvey, M.A., LL.B., LL.D., Chief Justice of Alberta.
Secretary to the Board.—Duncan S. Mackenzie.

Dean of the Faculty of Arts and Sciences.—Wm. Alex. Robb Kerr, M.A., Ph.D.

Dean of the Faculty of Agriculture.—Ernest A. Howes, B.S.A.

Librarian.—Frank G. Bowers.

Registrar.—Cecil Ethelbert Race, B.A., C.A., Secretary to the Senate.

Degrees conferred.—B.A., B.D., B.Sc. (Arts), B.Sc. (Pharmacy), B.S.A., LL.B.

The degree of LL.D. is conferred in recognition of distinction in literature or science, or for notable public service.

The B.D. degree is conferred upon completion by the student of the course offered by the affiliated theological colleges.

In the Faculty of Medicine three years of a five-year course are at present offered, students going to McGill and Toronto to complete their courses, entering without examination.

In Dentistry two years of a four-year course are now offered.

Graduate courses in the Faculty of Arts and Sciences are offered, leading to the degrees of M.A. and M.Sc.

PROFESSORS.

FACULTY OF ARTS.

Professors :

- W. A. R. Kerr, *Modern Languages.*
- W. H. Alexander, *Classics.*
- E. K. Broadus, *English Lang. and Lit.*
- J. M. McEachran, *Philosophy.*
- E. W. Sheldon, *Mathematics.*
- J. F. Coar, *German.*
- D. M. McGibbon, *Economics.*
- C. S. Burgess, *Architecture.*

Assistant Professors :

- G. Misener, *Latin.*
- R. K. Gordon, *English.*
- A. L. Burt, *History and Economics.*
- J. Adam, *Drawing and Descriptive*
- C. Carruthers, *Classics.* [*Geometry.*]
- P. A. W. Wallace, *English.*

FACULTY OF SCIENCE.

Professors :

- A. L. F. Lehmann, *Chemistry.*
- F. J. Lewis, *Biology.*
- R. F. Boyle, *Physics.*

Post-Graduate Courses.—Courses are offered in the Faculty of Arts and Sciences leading to the Degrees of M.A. and M.Sc. (Arts).

AFFILIATED INSTITUTIONS.

- Alberta College (Methodist Theological), Edmonton.
- Robertson College (Presbyterian Theological), Edmonton.
- Western Canada College (Preparatory), Calgary.
- Mount Royal College (Preparatory), Calgary.
- The University School (Preparatory), Calgary.
- Westward Ho College (Preparatory), Edmonton.
- Llanarthney School for Girls (Preparatory), Edmonton.
- St. Aidan's Anglican College (Church of England Theological), Edmonton.

ROBERTSON COLLEGE, Edmonton, Alberta. (1910.)

Affiliated to the University of Alberta.

Robertson (Presbyterian) and Alberta (Methodist) are two co-operating schools of Theology on the University Campus, both affiliated to the University of Alberta.

Robertson College, however, has the power, conferred by Charter of the Legislative Assembly of the Province, to confer the honorary degree of D.D. (Doctor of Divinity).

Sessions One per year. *Students* (1919-20): 20. 

OFFICIAL.

Principal.—J. M. Millar, D.D.

5 Lecturers.

Degrees conferred.—B.D. by University of Alberta.

Post-Graduate Courses.—The B.D. Courses are given in Robertson College, and the degree is bestowed by the University.

Library.—Theological Library of 4,000 volumes. *Librarian* : H. G. Rice.

EDWARDES COLLEGE. See PESHAWAR.

ENGLEFIELD GREEN.

ROYAL HOLLOWAY COLLEGE, Englefield Green, Surrey. (1883.)

Terms : Three a year.

Students : 200.

OFFICIALS.

Chairman of Governing Body.—Sir Joseph Savory, Bart.

Principal.—Miss E. C. Higgins, B.A.

Secretary.—Miss W. R. Dolling.

PROFESSORS.

J. H. Sleeman, *Classics.*

M. E. S. Taylor (Miss), *Classics.*

S. L. Loney, *Mathematics.*

E. M. Rowell (Miss), *Mathematics.*

K. S. Block (Miss), *English.*

M. D. Honey (Miss), *French.*

W. E. Delp (Miss), *German.*

E. J. Carlyle, *History.*

M. J. Benson, *Botany.*

T. S. Moore, *Chemistry.*

F. Horton, *Physics.*

S. M. Barker (Miss), *Music.*

15 Lecturers.

Library.—Library of over 14,000 volumes. *Librarian* : Miss M. Hewlett.

Post-Graduate Courses for M.A., and M.Sc.

EUGENE (Oregon).

UNIVERSITY OF OREGON, Eugene, Oregon. (1792.)

Terms : Three a year and a summer term.

Students : 1,924.

Budget : \$390,960.17.

OFFICIALS.

President.—P. L. Campbell.

Comptroller.—L. H. Johnson.

Registrar.—C. E. Spencer.

Librarian.—M. H. Douglas.

Dean of the College of Literature, Science, and the Arts.—J. Straub, M.A., Lit.D.

Dean of Graduate School.—F. G. Young, B.A.

Dean of Summer School.—J. Schafer, Ph.D.

Dean of School of Education.—H. D. Sheldon, Ph.D.

Dean of School of Medicine.—K. A. J. Mackenzie, M.D.

Dean of School of Commerce.—D. W. Morton, M.A., C.P.A.

Dean of School of Journalism.—E. W. Allen, B.A.

Dean of School of Architecture.—E. F. Lawrence, M.S.

Dean of School of Law.—E. W. Hope, Ph.D.

Dean of School of Music.—J. J. Landsbury, Mus.Dr.

Dean of Women.—Miss E. F. Fox, B.A.

Degrees conferred.—B.A., B.Sc., LL.B., B.M., M.A., M.Sc., J.D., M.D., Ph.D.

PROFESSORS.

LITERATURE, SCIENCE AND
ARTS.

Professors :

- J. C. Almack, *Extension Division*.
 J. D. Barnett, *Political Science*.
 E. S. Bates, *Rhetoric and American Literature*.
 J. F. Bovard, *Zoology*.
 Capt. R. C. Baird, *Military Science and Tactics*.
 W. P. Boynton, *Physics*.
 J. Burgess (Miss), *Rhetoric*.
 G. S. Monk, *Physics*.
 H. A. Clark, *Latin*.
 R. C. Clark, *History*.
 T. Cloran, *Romance Languages*.
 E. S. Conklin, *Psychology*.
 M. L. Cummings (Miss), *Women's Gymnasium*.
 P. C. Crockatt, *Economics*.
 E. E. De Cou, *Mathematics*.
 F. S. Dunn, *Latin Language and Literature*.
 J. H. Gilbert, *Economics*.
 H. C. Howe, *English Literature*.
 J. J. Landsbury, *Music*.
 E. F. Lawrence, *Architecture*.
 E. H. McAlister, *Mechanics and Astronomy*.
 W. E. Milne, *Mathematics*.
 E. L. Packard, *Geology*.
 M. H. Parsons (Mrs.), *Rhetoric*.
 M. H. Perkins (Miss), "
 R. W. Prescott, *Public Speaking*.
 G. Rebec, *Philosophy*.
 A. F. Reddie, *Public Speaking*.
 E. C. Robbins, *Economics and Sociology*.
 J. Schafer, *History*.
 F. G. G. Schmidt, *German Language and Literature*.
 A. H. Schroff, *Fine Arts*.
 F. L. Shinn, *Chemistry*.
 W. D. Smith, *Geology*.
 O. F. Stafford, *Chemistry*.
 J. Straub, *Greek Language and Literature*.
 A. R. Sweetser, *Botany*.
 W. F. G. Thacher, *Rhetoric*.
 E. Thorstenberg, *Scandinavian Languages and Literatures*.
 L. Tingle (Miss), *Household Arts*.
 R. H. Wheeler, *Psychology*.
 M. Watson (Miss), *English Literature*.
 F. G. Young, *Economics and Sociology*.

Assistant Professors :

- E. Waterman (Miss), *Physical Education*.
 H. Rhodes (Miss), *Drawing*.
 L. C. Roxenberg, *Drawing*.

SCHOOL OF MEDICINE.

Professors :

- W. F. Allen, *Anatomy*.
 J. F. Bell, *Theory and Practice of Medicine*.
 R. L. Benson, *Pathology*.
 J. B. Bilderback, *Pediatrics*.
 G. E. Burget, *Physiology*.
 J. F. Dickson, *Ophthalmology*.
 R. B. Dillihunt, *Anatomy*.
 H. D. Haskins, *Biochemistry*.
 S. E. Josephi, *Mental and Nervous Diseases*.
 E. J. Labbe, *Obstetrics*.
 A. E. Mackay, *Diseases of Genito-Urinary Organs*.
 K. A. J. Mackensie, *Operative and Clinical Surgery*.
 H. B. Myers, *Materia Medica, Pharmacology and Toxicology*.
 R. Nunn, *Diseases of Eye, Nose, and Throat*.
 H. J. Sears, *Bacteriology*.
 E. F. Tucker, *Gynecology*.
 G. F. Wilson, *Principles and Practice of Surgery*.
 R. C. Yenny, *Clinical Medicine*.

Associate Professors :

- J. C. Zan, *Clinical Surgery*.
 F. R. Menne, *Pathology*.
 W. House, *Mental and Nervous Diseases*.

Assistant Professors :

- A. W. Baird, *Surgery*.
 H. C. Bean, *Medicine*.
 I. C. Brill, *Medicine*.
 T. H. Coffin, *Clinical Medicine*.
 H. W. Coffin, *Medicine*.
 R. C. Coffey, "
 J. E. Else, *Surgery*.
 J. A. Gilbert, *Medicine*.
 W. B. Holden, *Surgery*.
 F. A. Kiehle, *Ophthalmology*. [ology.
 J. C. E. King, *Dermatology and Syphilology*.
 W. S. Knox, *Clinical Medicine*.
 G. A. Koehler, *Medicine*.
 R. C. Matson, "
 R. W. Matson, "
 C. J. McCusker, *Obstetrics*.
 C. E. Sears, *Medicine*.
 L. Selling, *Clinical Medicine*.
 C. S. White, *Hygiene and Sanitation*.
 G. S. Whiteside, *Genito-Urinary Surgery*.
 O. B. Wight, *Gynecology*.

SCHOOL OF EDUCATION.

Professors :

- B. W. De Busk, *Education*.
 A. N. French, "
 C. A. Gregory, "

Professors—Continued :

- H. D. Sheldon, *Education*
- F. L. Stetson „
- H. R. Douglas „
- G. M. Rusk „
- V. Morris „

SCHOOL OF LAW.

Professors :

- E. W. Hope, *Law*.
- T. A. Larremore, *Law*.
- S. B. Warner, *Law*.

SCHOOL OF JOURNALISM.

Professors :

- E. W. Allen, *Journalism*.
- G. S. Turnbull „
- C. V. Dymont „

SCHOOL OF COMMERCE.

Professor :

- D. W. Morton, *Commerce*. [tors.
- 40 Instructors and Assistant Instruc-

SCHOOL OF MUSIC.

Professors :

- A. Lubken, *Singing*.

Professors—Continued :

- L. Coon, *Organ*.
- R. Underwood, *Stringed Instruments*.
- A. L. Beck (Mrs.), *Public School Music*.
- J. S. Thacher (Mrs.), *Pianoforte*.
- F. V. Badolett, *Flute*.
- R. Hickernell, *Wind Instruments*.

Assistant Professors :

- M. Findahl (Miss), *Singing*.
- 3 Instructors.

PORTLAND DIVISION.

Professors :

- F. S. Burke, *Pianoforte*.
- A. Whiteside, *Pianoforte*.
- J. C. Monteith, *Singing*.
- P. M. Chapman (Miss), *Singing*.
- F. Eichenlaub, *Violin*.
- S. F. Pipes (Miss), *Violin*.
- W. Boone, *Organ, Pianoforte, and Com-*
position.
- C. Denton, *Organ, Pianoforte, and*
Violin.
- W. H. Boyer, *Public School Music*.

Post-Graduate Courses.—M.A., M.Sc.

Museums.—

- Condon Geological Museum, Johnson Hall.
- Botanical Museum, Deady Hall.
- Zoological Museum, Deady Hall.

EWING CHRISTIAN COLLEGE. See ALLAHABAD.

EXETER.

ROYAL ALBERT MEMORIAL UNIVERSITY COLLEGE, Exeter. (1901.)

Terms : Three a year.

Students : 103. Students in Elementary Training Department, School of Art, University Tutorial Evening Classes, 500.

Budget :

Income: By Education Grant..	..	..	£4,000
Exeter Council ..	..	..	4,220
Devon County ..	..	..	275
Fees .. ..	..	..	3,000
Sundries .. ..	..	..	300

OFFICIALS.

- Visitor*.—Alexander Hill, M.D.
- Principal*.—Arthur W. Clayden, M.A.
- Registrar*.—A. K. Woodbridge.

Degrees.—Students are prepared for the degrees of London University.

PROFESSORS.

- A. W. Clayden, *Physics*.
- W. H. Lewis, *Chemistry*.
- A. E. Morgan, *English*.
- W. J. Harte, *History*.

- H. A. S. Wortley, *Lecturer in Educa-*
tion.
- Sir Israel Gollanez, *Honorary Leofric*
Lecturer in Old English.

30 Lecturers.

SCHOOL OF ART.*Visiting Directors.*—Alfred Drury, R.A.; H. Granville Fell.*Head Master.*—W. Burman Morrall.

7 Assistants.

The **Exeter Public Library** and the **Museum** are both under the same Governing Body as the College. There is a separate Reference Department in the Library for College Students. *Librarian*: H. T. Soper. *Curator*: F. R. Rowley. *Assistant Curator*: Miss E. Aviolet.

FORMAN CHRISTIAN COLLEGE. See LAHORE.**FOURAH BAY (Sierra Leone).****FOURAH BAY COLLEGE**, Freetown, Sierra Leone. (1827.)

The College is affiliated to the University of Durham in Arts and Theology. The C.M.S. College, Oyo, Southern Nigeria, is also affiliated to Durham in Theology only, and there is an arrangement by which we and they reciprocate in examining for Matriculation.

Terms: Four a year.*Students*: 26.

OFFICIALS.

Visitor.—Right Rev. John Walmsley, D.D.*Principal.*—J. Denton, M.A., L.Th.*Vice-Principal.*—Rev. W. T. Balmer, M.A., B.D.

3 Tutors, 2 Lecturers.

Post-Graduate Courses.—As at Durham.

Many Graduates go to England for Law and Medicine. Some read for B.C.L., B.D. and M.A. locally. Many get the M.A. and B.C.L. One has got the B.D. Several have received Honorary Degrees from Durham—Hon. D.D., Hon. M.A., etc.

Library.—College Library.**FRANKLIN INSTITUTE. See PHILADELPHIA.****FREDERICTON (Canada).****UNIVERSITY OF NEW BRUNSWICK**, Fredericton, New Brunswick, Canada. (1800.)*Terms*: Two per year.*Students*: 160.*Budget*: \$40,000.

OFFICIALS.

Visitor.—His Honor the Hon. William Pugsley, K.C., M.A., D.C.L., LL.D., P.C., Lieutenant-Governor of the Province of New Brunswick.*Chancellor.*—Cecil C. Jones, M.A., Ph.D., LL.D.*President of the Senate.*—W. S. Carter, M.A., LL.D., D.C.L.*Registrar.*—Havelock Coy, M.A.**Degrees conferred :**

<i>Degrees.</i>	<i>Hoods.</i>
B.A. - -	Black stuff bordered with white fur.
B.Sc. - -	(Arts) Black stuff lined with scarlet silk, bordered with white fur.
B.Sc. - -	(Applied Science) Black stuff with green silk, bordered with white fur.
B.C.L. - -	Pale blue silk, bordered with white fur.
M.A. - -	Black silk lined with crimson silk.
M.Sc. - -	(Arts) Black silk lined with white silk, bordered with scarlet.
M.Sc. - -	(Applied Science) Black silk lined with white silk, bordered with green.
Ph.D. - -	Scarlet cloth with dark blue silk lining.
LL.D. - -	Scarlet cloth with pale pink silk lining.
D.Sc. - -	Scarlet cloth with white corded silk lining.
D.C.L. - -	Scarlet cloth with pale blue silk lining.

PROFESSORS.

FACULTY OF ARTS.

Professors :

- W. T. Raymond, *Classics and Ancient History.*
- W. C. Kierstead, *Philosophy and Economics.*
- E. L. Harvey, *English and Modern History.*
- J. A. Spaulding, *French and German.*

FACULTY OF PURE AND APPLIED SCIENCE.

Professors :

- C. C. Jones, *Mathematics.*

Post-Graduate Courses.—M.A. Courses given when equipment of Department and time-table of instructors permit.

Museum.—Natural History Museum, which includes Boardman Bird Collection.
Curator : P. Cox, B.A. B.Sc.

Librarian : W. C. Keirstead, M.A.

Professors—*Continued* :

- L. W. Bailey, *Natural History and Geology.*
- P. Cox, *Natural History and Geology.*
- J. Stephens, *Mechanical Engineering and Drawing.*
- A. V. S. Pulling, *Forestry.*
- E. O. Turner, *Civil Engineering.*
- C. S. McGinnis, *Physics and Electrical Engineering.*
- A. Cameron, *Chemistry.*
- 3 Lecturers.

GAINSVILLE (Florida).

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—P. H. Rolfs.

GALESBURG (Illinois).

KNOX COLLEGE, Galesburg, Illinois. (1837.)

Terms : Two semesters.
Budget : \$90,000.00.

Students : College, 503; Conservatory, 273.

OFFICIALS.

President.—James L. McConaughy.

Dean.—William E. Simonds.

Registrar.—Herbert E. Griffith.

Degrees conferred.—B.A., B.Sc., Mus.B.

PROFESSORS.

Professors :

- J. L. McConaughy, *Education.*
- W. E. Simonds, *English.*
- H. E. Griffith, *Chemistry.*
- G. T. Sellew, *Mathematics.*
- A. C. Longden, *Physics.*
- W. L. Raub, *Philosophy.*
- W. P. Drew, *Latin.*
- J. L. Conger, *History.*
- B. H. Grave, *Biology.* [*Literature.*
- J. Sterenberg, *Greek and Biblical*

Professors—*Continued* :

- J. N. Campbell, *Romance Languages.*
- F. A. Middlebush, *History and Government.*
- R. E. Curtis, *Economics and Sociology.*
- J. A. Campbell, *German.*

Assistant Professors :

- J. R. Holmes (Miss), *History.*
- R. C. Whitford, *English.*
- M. L. Sawyer (Miss), *Biology.*

9 Instructors, 1 Assistant, 1 Director of Athletics, 1 Director of Physical Instruction for Women, 1 Professor of Military Science and Tactics.

AFFILIATED INSTITUTIONS.

Knox Conservatory of Music.

There are, in addition, 7 Professors and 4 Instructors in the Conservatory.

GALWAY.

UNIVERSITY COLLEGE, Galway. (1845.)

Terms : Three per year.

Students : 175.

Budget :

Annual Grant from Government	£14,000
Annual Grant from Connaught County Councils	1,500

OFFICIALS.

President.—Alexander Anderson, M.A., D.Sc., LL.D.

Registrar.—Rev. J. Hynes, B.D.

PROFESSORS.

FACULTY OF ARTS.

Professors :

- R. K. MeElderry, *Ancient Classics.*
- W. A. Byrne, *English Language and Literature.*
- W. O'Brien, *Romance Languages.*
- E. Anderson (Miss), *German.*
- M. J. D. O'Sullivan (Mrs.), *History.*
- J. Howley, *Philosophy.*
- Rev. T. O'Kelly, *Education.*
- B. F. Shields, *Economics.*
- 2 Assistants.

FACULTY OF SCIENCE.

Professors :

- M. Power, *Mathematics.*
- A. Anderson, *Physics.*
- T. Dillon, *Chemistry.*
- J. Mangan, *Natural History.*
- H. B. Cronshaw, *Geology and Mineralogy.*
- 6 Assistants.

FACULTY OF MEDICINE.

Professors :

- J. P. Pye, *Anatomy and Physiology.*
- R. B. Mahon, *Medicine.*
- W. W. Brereton, *Surgery.* [rics.
- R. J. Kinkead, *Gynecology and Obstet-*
- N. W. Colohan, *Materia Medica and*
- Pharmacy.*
- T. Walsh, *Pathology.* [Otology.
- S. P. MacEnri, *Ophthalmology and*

Post-Graduate Courses are given in all the foregoing Faculties.

Museums of Natural History, Geology, Pathology, Materia Medica, and Gynecology.

Library.—40,000 volumes. *Librarian* : Prof. J. Howley, M.A.

GENERAL THEOLOGICAL SEMINARY. See NEW YORK.

GENEVA (New York).

NEW YORK AGRICULTURAL EXPERIMENT STATION, Geneva, New York.
(1880.)

OFFICIALS.

President.—C. S. Wilson.

Director.—Whitman H. Jordan.

Secretary and Treasurer.—W. O'Hanlon.

Librarian.—F. H. Hall, B.S.

STAFF.

Agriculturist.—G. W. Churchill.
Agronomist.—R. C. Collison.
Assistant Chemist (Agronomy).—J. E. Mensching.
 3 Assistant Agronomists.
Bacteriologist.—R. S. Breed.
Assistant Bacteriologists.—H. J. Conn.
 3 Assistant Bacteriologists.
Botanist.—F. C. Stewart.
Associate Botanist.—W. O. Gloyer.
 1 Assistant Botanist.
Chemist.—L. L. Van Slyke.
Associate Chemists.—
 R. J. Anderson.
 A. W. Clark.
 J. C. Baker.
 6 Assistant Chemists.

Dairy Expert.—G. A. Smith.
Entomologist.—J. P. Parrott.
Associate Entomologists.—
 H. Glasgow.
 F. Z. Hartzell.
 2 Assistant Entomologists.
Horticulturist.—U. P. Hedrick.
Associate Horticulturists.—
 R. D. Anthony.
 F. E. Gladwin.
 O. M. Taylor.
 4 Assistant Horticulturists.
Special Agent.—F. Atwood Surrine.
 7 Clerks and Stenographers.

GEOLOGICAL SURVEY OF GREAT BRITAIN. See LONDON.

GEOLOGICAL SURVEY OF INDIA. See CALCUTTA.

GEORGETOWN UNIVERSITY. See WASHINGTON.

GEORGE WASHINGTON UNIVERSITY. See WASHINGTON.

GEORGIA UNIVERSITY. See ATHENS.

GLASGOW.

UNIVERSITY OF GLASGOW, Glasgow. (1450.)

Terms : Three per year. *Students* (1918-19): 3,047.
Budget (1917-19):

Income: Fees	£34,850
Endowments	20,116
Treasury Grants	33,380
Miscellaneous	3,700
Expenditure	91,283

OFFICIALS.

Chancellor.—The Earl of Rosebery and Midlothian, K.G., K.T.
Principal and Vice-Chancellor.—Sir Donald MacAlister, K.C.B., M.A., D.C.L., LL.D., D.Sc., Ph.D.
Rector.—The Right Hon. A. Bonar Law.
Dean of Faculties.—Emeritus Prof. Stewart, D.D., LL.D.
Secretary of University Court.—Alan E. Clapperton, LL.D.
Assistant Secretary of University Court.—Robert Brough.
Clerk of Senate.—Rev. Prof. Milligan, D.D., D.C.L.
Registrar of University.—Albert Morrison.

Degrees conferred :

Degrees.	Hoods.
B.A. - - Black silk, bordered inside with red purple silk (colour of bell heather— <i>Erica cinerea</i>).	
M.A. - - Black silk, lined with red purple silk.	
D.Phil. - - Scarlet cloth, lined with reddish purple silk.	
D.Litt. - - Scarlet cloth, lined with bluish purple silk.	
B.Sc. - - Black silk, bordered with scarlet cloth and lined with gold coloured silk (colour of whin blossom— <i>Ulex Europæa</i>).	
D.Sc. - - Scarlet cloth, lined with gold-coloured silk.	
B.L. - - Black silk, with an inside border of venetian red silk (colour of clove carnations).	

Degrees conferred—Continued.

<i>Degrees.</i>	<i>Hoods.</i>
LL.B. -	Black silk, bordered with scarlet cloth, and lined with venetian red silk.
LL.D. (Hon.)	Scarlet cloth, lined with venetian red silk.
M.B. and C.M.	Black silk, bordered with scarlet cloth and lined with scarlet silk.
M.D. -	Scarlet cloth, lined with scarlet silk.
B.D. -	Black silk, bordered with scarlet cloth, and lined with a light cherry silk.
D.D. (Hon.) -	Scarlet cloth, lined with white silk.

PROFESSORS.

FACULTY OF ARTS.

Professors:

- R. Latta, *Logic and Rhetoric.*
- A. Gray, *Natural Philosophy.*
- Sir H. Jones, *Moral Philosophy.*
- G. A. Davies, *Greek.*
- J. S. Phillimore, *Humanity.*
- W. M. Dixon, *English Language and Literature.*
- D. J. Medley, *History.*
- W. R. Scott, *Political Economy.*
- R. S. Rait, *Scottish History and Literature.*
- C. A. Martin, *French Language and Literature.*
- H. Smith, *German Language and Literature.*

Lecturers:

- C. A. Martin, *French Language and Literature.*
- H. Smith, *German Language and Literature.*
- E. Grillo, *Italian Language and Literature.*
- H. Brennan, *Russian Language and Literature.*
- G. Calder, *Celtic Language and Literature.*
- R. Girvan, *English Language.*
- J. S. Smart, *English.*
- R. A. Duff, *Political Philosophy.*
- J. H. Jones, *Social Economics.*
- T. Keith (Miss), *Economic History.*
- A. Browning, *History.*
- W. Boyd, *Education.*
- T. H. Weir, *Arabic.*
- J. D. Falconer, *Geography.*
- H. J. Watt, *Psychology.*
- L. J. Russell, *Logic.*
- W. Anderson, *"*
- J. W. Scott, *Moral Philosophy.*
- R. G. Nisbet, *Latin.*
- W. Rennie, *Greek.*
- J. B. Hutton, *Greek History and Antiquities.*
- S. N. Miller, *Roman History and Antiquities.*
- J. W. Pirie, *Comparative Philology.*

FACULTY OF SCIENCE.

Professors:

- G. A. Gibson, *Mathematics.*
- J. G. Kerr, *Zoology.*
- G. G. Henderson, *Chemistry.*

Professors—Continued:

- T. S. Patterson, *Organic Chemistry.*
- F. O. Bower, *Botany.*
- J. D. Cormack, *Civil Engineering.*
- Sir J. H. Biles, *Naval Architecture and Marine Engineering.*
- J. W. Gregory, *Geology.*
- (Vacant), *Mining.*

Lecturers:

- R. J. T. Bell, *Mathematics.*
- J. M. F. Drummond, *Botany.*
- J. G. Gray, *Physics.*
- R. A. Houston, *Physical Optics.*
- G. E. Allan, *Electricity, Pure and Applied.*
- G. Green, *Natural Philosophy.*
- J. Connell, *Astronomy.*
- W. E. Agar, *Zoology and Protozoology.*
- R. Wright, *Physical Chemistry.*
- H. W. Bolam, *Chemistry.*
- J. S. Nicholson, *Electrical Engineering.*
- W. G. Goudie, *Engineering.*
- R. M. Brown, *"*
- G. W. Tyrrell, *Geology.*

FACULTY OF MEDICINE.

Professors:

- T. K. Monro, *Practice of Medicine.*
- T. H. Bryce, *Anatomy.*
- Sir W. Macewen, *Surgery.*
- M. Cameron, *Midwifery.*
- R. Stockman, *Materia Medica.*
- D. N. Paton, *Physiology.*
- J. Glaister, *Forensic Medicine.*
- R. Muir, *Pathology.*
- J. M. M. Kerr, *Obstetrics and Gynecology.*
- R. Kennedy, *Surgery.*
- J. H. Teacher, *Pathology.*
- W. K. Hunter, *Medicine.*

Lecturers:

- A. A. Gray, *Diseases of the Ear.*
- J. Adam, *Diseases of the Ear.*
- J. W. Downie, *Diseases of the Throat and Nose.*
- J. Harper, *Diseases of the Throat and Nose.*
- A. M. Ramsay, *Eye.*
- L. R. Oswald, *Insanity.*
- D. Burns, *Physiology.*
- A. McL. Watson, *Physiology.*

Lecturers—Continued:

- G. H. Wilson, *Bacteriology*.
 J. Wyllie Nicol, *Dermatology*.
 G. MacIntyre, *Dermatology*.
 J. W. McNee, *Pathological Histology*.
 W. J. Dilling, *Materia Medica*.
 W. K. Hutton, *Anatomy*.
 J. M. Cowan, *Clinical Medicine*.
 J. B. M. Anderson, *Clinical Medicine*.
 W. R. Jack " "
 J. Henderson " "
 A. N. MacGregor, *Clinical Surgery*.
 T. Kay " "
 G. H. Edington " "
 D. Watson, *Veneral Diseases*.
 J. H. Macdonald, *Psychological Medicine*.
 J. R. Riddell, *Electrical Diagnosis and Therapeutics*.
 A. Allison, *Public Health*.
 J. Crocket, *Clinical Tuberculosis*.
 A. S. M. Macgregor, *Clinical Tuberculosis*.

FACULTY OF THEOLOGY.

Professors:

- H. M. B. Reid, *Divinity*.
 W. B. Stevenson, *Hebrew and Semitic Languages*.
 J. Cooper, *Church History*.
 G. Milligan, *Biblical Criticism*.

FACULTY OF LAW.

Professors:

- W. M. Gloag, *Law*.
 W. S. McKechnie, *Conveyancing*.

Lecturers:

- A. A. Mitchell, *General and Comparative Jurisprudence*.
 D. B. Mungo, *Constitutional Law and History*.
 H. R. Buchanan, *Civil Law*.
 T. G. Wright, *Mercantile Law*.
 R. Lamond, *Evidence and Procedure*.
 45 Assistants to Professors, 7 Assistants to Lecturers.

Post-Graduation Courses in the Faculty of Medicine are held at the Royal, Western, and Victoria Infirmaries and also in the several Hospitals for special branches of Medicine. Honours and other advanced courses are provided at the University. The medical and scientific laboratories are open to research workers. In regard to the Faculties generally it may be stated that graduates are permitted to attend any of the University classes for purposes of higher study. They may also engage in specific researches. The new degree of Doctor of Philosophy (Ph.D.) has been instituted for advanced students admitted to courses of research.

Museums, Learned Societies.—

Hunterian Museum.—This Museum was founded by the eminent William Hunter, M.D., who bequeathed to the University his valuable collection of books, manuscripts, coins, paintings, anatomical preparations, zoological and mineral specimens and archeological relics, and also a building for their reception and preservation.

With Dr. Hunter's collections there are incorporated the University collection of Roman inscriptions from the Antonine Vallum, and many important donations which have, from time to time, been received from friends of the University, as well as valuable additions purchased by the University.

There are a great many learned societies connected with the University, including: The Medico-Chirurgical Society; The Dialectic Society; The Engineering Society; The Physical Society; The Geological Society, etc.

The University Library was founded in the fifteenth century. The collection of books numbers over 200,000. Librarian: Vacant. Sub-Librarian: Mungo Ferguson, M.A.

AFFILIATED INSTITUTIONS.

Royal Technical College, Glasgow.

THE ROYAL TECHNICAL COLLEGE, Glasgow. (1796.)

Terms: Two per year—September to April, and April to July.
 Students: 981 day students, and 2,178 evening students.
 Budget: Normal Income and Expenditure about £37,000.

OFFICIALS.

Chairman of the Governors.—Sir George Beilby, LL.D., D.Sc., F.R.S.
 Director.—H. Fitton Stockdale, LL.D., F.R.S.E.

Degrees.—Undergraduates are presented for degrees in Applied Science of the University of Glasgow.

PROFESSORS.

Professors :

- J. Miller, *Mathematics*.
 J. Muir, *Natural Philosophy*.
 T. Gray, *Technical Chemistry*.
 F. J. Wilson, *Inorganic and Analytical Chemistry*.
 J. M. Heilbron, *Organic Chemistry*.
 C. H. Desch, *Metallurgy*.
 J. G. Longbottom, *Mechanics*.
 G. Moncur, *Civil Engineering*.
 A. L. Mellanby, *Mechanical Engineering*.
 M. Maclean, *Electrical Engineering*.
 D. Burns, *Mining Engineering*.
 C. Gourlay, *Architecture and Building*.

Lecturers :

- J. Paul, *Mathematics*.
 S. J. Murray ,,
 J. Hunter ,,
 D. Miller ,,
 W. G. Burrell ,,
 D. McPhie ,,
 J. S. Rankin, *Natural Philosophy*.
 T. B. Duncan, *Natural Philosophy*.
 J. G. Cameron (Miss) ,,
 G. E. Allan ,,
 D. B. M'Quistan ,,
 M. M. J. Sutherland (Miss), *Chemistry*.
 J. A. Cranston, *Chemistry*.
 J. E. Hopper ,,
 P. Gordon ,,
 J. Leslie ,,
 J. M. Cooper ,,
 G. S. Cruikshanks, *Technical Chemistry*.
 A. B. Steven, *Bleaching, Dyeing, Calico printing and finishing*.
 T. H. P. Heriot, *Sugar Manufacture*.
 D. Houston, *Tanning*.
 J. McLeod, *Gas Manufacture*.
 J. McGhee, *Gas Distribution*.

Lecturers—Continued :

- W. C. Gray, *Metallurgy*.
 J. W. Donaldson, *Metallurgy*.
 W. Blackadder, *Mechanics*.
 J. Ramsay ,,
 A. I. Nicholson ,,
 D. Clark, *Civil Engineering*.
 G. Thomson, *Sanitary Engineering*.
 W. A. Macartney, *Municipal Engineering and Town Planning*.
 L. P. Lewis, *Railway Signalling*.
 A. M. Persom, *Mechanical Engineering*.
 W. R. Chisholm, *Drawing*.
 A. E. M'Caw, *Motor Car Engineering*.
 D. J. Mackellar, *Electrical Engineering*.
 O. M. Salzmann ,,
 J. Murray ,,
 J. Luke, *Wireless Telegraphy*.
 W. B. Hird, *Dynamo Design*.
 R. B. Mitchell, *Wiring and Fitting*.
 J. Sim, *Mining Engineering*.
 E. J. Edwards, *Economic Geology*.
 W. M. Gray, *Naval Architecture*.
 J. Houston, *Architecture and Building*.
 T. Brown ,,
 J. L. Mackinnon, *Builders' Quantities*.
 D. Ellis, *Botany and Bacteriology*.
 W. Zamorska (Miss), *Botany and Bacteriology*.
 W. Watson, *Textile Manufacture*.
 W. H. Cairns ,,
 (Vacant), *Hosiery Manufacture*.
 C. H. Brown, *Navigation*.
 A. M'Donald ,,
 W. Hamilton ,,
 W. M. Gray ,,
 (Vacant), *Baking*.
 A. Macdonald, *Naval Signalling*.
 H. C. Miller, *History and Theory of Music*.

Post-Graduate Courses are offered in all the principal Departments.

The **Library** contains about 20,000 volumes, devoted almost entirely to works on Science and Technology. *Librarian* : P. Bennett.

ROYAL FACULTY OF PHYSICIANS AND SURGEONS OF GLASGOW. (1599.)

OFFICIALS.

President.—Dr. A. Freeland Fergus.

Visitor.—Dr. W. G. Dun.

Treasurer.—Dr. George McIntyre.

Hon. Librarian.—Dr. E. H. L. Oliphant.

The Royal Faculty grants a Licence for Dental Surgery, and in co-operation with the Royal Colleges of Physicians of Edinburgh and the Royal College of Surgeons of Edinburgh grants a Licence to practice in Medicine and Surgery, and also a Diploma in Public Health. The Royal Faculty also grants a Fellowship.

The **Library** contains about 100,000 volumes, chiefly Medical, with a fair proportion of local books. *Librarian* : Walter Hurst, F.L.S.

THE WEST OF SCOTLAND AGRICULTURAL COLLEGE, Glasgow. (1899.)

Terms : Winter Session in Glasgow.
 Summer Session in Kilmarnock.
Students : 285.

OFFICIALS.

Principal.—W. G. R. Paterson, B.Sc., N.D.A.
Secretary.—W. Cuthbertson, M.B.E., F.R.S.E., F.E.I.S.
Diplomas conferred.—C.D.A., C.D.D., C.D.F. No Hoods.

PROFESSORS.

W. G. R. Paterson, <i>Agriculture</i> .	R. H. Leitch, <i>Dairying</i> .
A. N. McAlpine, <i>Botany</i> .	R. J. Drummond, <i>Practical Dairy</i>
R. A. Berry, <i>Chemistry</i> .	<i>Work</i> .

20 Lecturers.

Extension Staff : 12 Lecturers; 11 Instructresses.

GOLDEN (Colorado).

COLORADO SCHOOL OF MINES, Golden, Colorado. (1874.)

The Colorado School of Mines is a high-grade technical school that gives only one course: Mining Engineering, in four groups—Metal Mining, Coal Mining, Metallurgy, and Mining Geology—all leading to the degree of Engineer of Mines. The Course is four years in length.

Terms : Two semesters. *Students* : 279 in 1918-19.
Budget : \$120,000.00 annually.
President.—Victor C. Alderson, Sc.D.

PROFESSORS.

Professors:

I. A. Palmer, *Metallurgy*.
 L. S. Grant, *Mining*.
 J. C. Roberts, *Coal Mining*.
 J. L. Morse, *Mechanical Engineering*.
 A. E. Bellis, *Physics*.
 A. P. Little, *Electrical Engineering*.
 F. M. Van Tuyl, *Geology and Mineralogy*.
 T. O. Walton, *Mathematics*.
 J. S. Jaffa, *Mining Law*.
 Major G. C. Dobson, *Military Science and Tactics*.

Associate Professors :

J. Underhill, *Mining*.
 C. W. Botkin, *Chemistry*.
 J. F. O'Byrne, *Descriptive Geometry and Modime Design*.

Assistant Professors :

W. J. Robinson, *Geology and Mineralogy*.
 J. F. Seiler, *Civil Engineering*.
 L. D. Roberts, *Chemistry*.
 S. Z. Krumm, *Mining and Metallurgy*.
 1 Instructor.

Post-Graduate work is offered.

Institutes and Societies.—

The American Institute of Mining and Metallurgical Engineers.
 The United States Bureau of Mines.

Library of 15,000 volumes.

GORDON COLLEGE. See RAWALPINDI.

GORDON MEMORIAL COLLEGE. See KHARTOUM.

GOUCHER COLLEGE. See BALTIMORE.

GRAHAMSTOWN (S. Africa).

RHODES UNIVERSITY COLLEGE, Grahamstown, Union of South Africa. (1904.)

A college of the Federal "University of South Africa."

Terms : Four per year.

Students : 161.

OFFICIALS.

Chairman.—The Right Rev. The Bishop of Grahamstown.

Vice-Chairman.—H. Fitchat, J.P.

Registrar.—Lt.-Col. H. Greener, D.S.O.

Degrees conferred.—

- (1) *In the Faculty of Arts*: B.A., M.A., D.Litt., Ph.D., B.D., D.D., Mus.Bac., Mus.M., Mus.Doc.
- (2) *In the Faculty of Science*: B.Sc., M.Sc., D.Sc., M.B., B.S., M.S., M.D.
- (3) *In the Faculty of Law*: LL.B., LL.M., LL.D.

PROFESSORS.

W. M. Smail, *Latin*.

C. W. Bowles, *Greek*.

A. S. Kidd, *English*.

G. F. Dingemans, *Dutch*.

H. S. Bodmer, *French*.

A. R. Lord, *Philosophy*.

D. Williams, *Pure Mathematics*.

R. W. Varder, *Physics*.

G. E. Cory, *Chemistry*.

E. H. S. Schwarz, *Geology*.

E. Schorland, *Botany*.

J. E. Duerden, *Zoology*.

12 Lecturers.

Libraries.—Rhodes College Library. *Hon. Librarian* : H. S. Bodmer.

GRAND FORKS (N. Dakota).

THE UNIVERSITY OF NORTH DAKOTA, Grand Forks, N. Dakota. (1883.)

The control of the University is vested in a State Board of Regents, five in number, appointed by the Governor of the State.

It has an endowment from land of \$1,721,262, while its campus, buildings, and equipment are valued at \$904,997, and its income for the biennium 1919-20 amounts to \$545,699.

The administrative and instructional staff number 146, representing in their preparation 46 different colleges and universities.

It has 1,500 alumni.

In the classified list of universities and colleges in America published by the U.S. Bureau of Education (1913) the University of North Dakota is placed in the first class.

Its graduates are received with full credit at all the larger American Universities, and it is included in the list of the Association of American Universities of those institutions whose degrees are recognized by the European Universities.

The business administration of the University is thoroughly organized along modern lines, with a budget system in full operation and skilfully handled.

The educational administration maintains sound ideals of scholarship and service. The faculty represents careful selection for teaching ability as well as scholarship.

Terms : Two semesters of 18 weeks each, and Summer Session of 6 weeks.

Students : 1,290.

Budget (1919-20):

Annual Income, exclusive of University Commons and Trust		
Funds	.. .. .	\$337,430
Annual Expenditures:		
Salaries	.. .. .	\$237,525
Equipment	.. .. .	9,675
General Expenses	.. .. .	84,910
Total	.. .. .	\$332,110

OFFICIALS.

- President.*—Thomas F. Kane, Ph.D., LL.D.
Dean of College of Lib. Arts.—Vernon P. Squires, M.A., Litt.D.
Dean of School of Education.—Joseph Kennedy, M.A., LL.D.
Dean of School of Medicine.—Harley E. French, M.S., M.D.
Dean of School of Law.—G. Fitch Wells, LL.B., LL.D.
Dean of College of Engineering and School of Mines.—Earle J. Babecek, B.S., Sc.D.
Registrar and Secretary of Faculty.—H. N. Tuttle.
Business Manager.—J. Wallace Wilkerson.

Degrees conferred.—B.A., B.S., LL.B., B.S. in C.E., B.S. in E.M., B.S. in M.E. or E.E., B.S. in E.

Higher Degrees.—The degree of M.A. or M.S. is conferred upon those who hold the degree of B.A. or B.S., and who have completed in addition a year of graduate work.

A Student who has received the degree of B.S. in one of the Engineering courses may receive the degree of C.E., M.E., E.E., or E.M. on the completion of an additional year of study in the respective fields.

PROFESSORS.

COLLEGE OF LIBERAL ARTS.

Professors :

- G. A. Abbott, *Chemistry*.
 W. G. Bek, *German*.
 H. R. Brush, *Romance Languages*.
 G. R. Davies, *History and Sociology*.
 J. M. Gillette, *Sociology*.
 R. R. Hitchcock, *Mathematics*.
 H. E. Haxo, *Spanish*.
 G. E. Hult, *Classical Languages*.
 O. G. Libby, *History*.
 B. J. Spence, *Physics*.
 V. P. Squires, *English Language and Literature*.
 J. Tingelstad, *Scandinavian Languages and Literature*.
 E. T. Towne, *Economics and Political Science*.
 R. T. Young, *Zoology*.

Assistant Professors :

- E. X. Anderson, *Chemistry*.
 H. Doak, *English*.
 E. L. Fulton (Miss), *English*.
 H. E. Haxo, *Romance Languages*.
 A. D. Keator, *Library Science*.
 N. E. Pfeiffer (Miss), *Botany*.
 J. A. Taylor, *English*.
 H. C. Trimble, *Chemistry*.
 P. J. Davis, *Physical Education for Men*.
 H. F. Jones, *English*.
 W. E. Sayre, *Manual Acts*.
 J. W. Taylor, *History*.

SCHOOL OF MEDICINE.

Professors :

- A. D. Bush, *Physiology*.
 H. E. French, *Anatomy*.
 B. J. Clawson, *Pathology*.

Assistant Professor :

- A. G. Long, *Pathology*.

COLLEGE OF ENGINEERING.

Professors :

- E. J. Babecek, *Mining*.
 A. J. Becker, *Applied Mathematics*.
 E. F. Chandler, *Civil Engineering*.
 D. R. Jenkins, *Electrical Engineering*.
 A. G. Leonard, *Geology*.
 R. L. Rhodes, *Mechanical Engineering*.
 H. E. Simpson, *Physiographic Geology*.

Assistant Professors :

- L. C. Harrington, *Mining*.
 F. W. Bentley, *Mechanical Drawing and Descriptive Geometry*.

LAW SCHOOL.

Professors :

- R. W. Cooley, *Law*.
 G. F. Wells, "
 H. E. Willis, "

Assistant Professor :

- L. Vold, *Law*.

SCHOOL OF EDUCATION.

Professors :

- J. Kennedy, *Education*.
 A. J. Ladd, "
 C. C. Schmidt, *Educational Methods*.
 J. W. Todd, *Psychology*.

Assistant Professors :

- M. Van Hoesen (Miss), *Home Economics*.
 O. E. Christensen, *Art and Design*.
 N. Martindale (Miss), *Physical Education for Women*.
 34 Instructors and Assistants and 8 Lecturers.

Post-Graduate Courses.—The Graduate Department includes in a single organization the advanced work of all the colleges and schools of the University which offer courses leading to higher degrees. Its purpose is to stimulate original research and high scholarship beyond the scope of the ordinary undergraduate courses. The administration of the department is entrusted to a committee on graduate work.

Several fellowships and scholarships are available for graduate study.

Institutes, Museums, Learned Societies.—

The University Museum, containing botanical, zoological, and geological collections.

The University has under its direction:

The North Dakota State Geological Survey.

A Special Meteorological Station of the U.S. Weather Bureau.

The Mining Experiment Station.

The North Dakota Biological Station.

The North Dakota Public Health Laboratory, with three branch laboratories.

Chapter of Phi Beta Kappa (National Scholastic Honor Society).

Branch of Association of Collegiate Alumnae.

Libraries.—

General University Library, 53,000 volumes.

Law Library, 9,500 volumes. *Librarian*: A. D. Keator, B.S., B.L.S. *Reference Librarian*: Miss J. M. Budge, B.A.

AFFILIATED INSTITUTION.

North Dakota Wesley College (formerly the Red River Valley University).

GREENWICH OBSERVATORY. See LONDON.

GUAM ISLAND.

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—C. W. Edwards.

GUELPH (Ontario).

ONTARIO AGRICULTURAL COLLEGE, Guelph, Ontario, Canada.

Affiliated with the University of Toronto.

Terms: Two per year.

Students: 1,000 average.

OFFICIALS.

President.—G. C. Creelman, B.S.A., LL.D.

Bursar.—S. Springer.

Secretary.—S. H. Gandier, B.S.A.

Degrees conferred.—B.S.A., B.Sc. (Agr.).

PROFESSORS.

Professors:

H. H. Dean, *Dairy Husbandry.*

C. A. Zavitz, *Field Husbandry.*

J. H. Reed, *Veterinary Science.*

R. Harcourt, *Chemistry.*

M. U. Watson (Miss), *Home Economics.*

J. Evans, *Manual Training.*

C. J. S. Bethune, *Entomology and Zoology.*

W. R. Graham, *Poultry Husbandry.*

J. W. Crow, *Horticulture.*

J. E. Howitt, *Botany.*

Professors—Continued:

D. H. Jones, *Bacteriology.*

O. J. Stevenson, *English.*

W. Toole, *Animal Husbandry.*

W. C. Blackwood, *Physics.*

F. E. Millen, *Apiculture.*

Associate Professors:

L. Caesar, *Entomology.*

W. J. Squirrel, *Field Husbandry.*

J. P. Sackville, *Animal Husbandry.*

21 Lecturers, 11 Demonstrators, 5 Instructors.

Library.—The Massey Library, 28,000 volumes. *Librarian*: Miss J. Gardiner.

ENTOMOLOGICAL SOCIETY OF ONTARIO, Guelph, Ontario, Canada.

President.—Arthur Gibson.

Secretary-Treasurer.—A. W. Baker.

The Entomological Society of Ontario was founded in 1863, at Toronto, by William Saunders (subsequently Director of the Experimental Farms of the Dominion of Canada,) and the Rev. C. J. S. Bethune (afterwards Head Master of Trinity College School, Port Hope, and Professor of Entomology in the Ontario Agricultural College, Guelph). There were 25 original members. Prof. H. H. Croft, of the Toronto University, was the first President, and W. Saunders, Secretary-Treasurer. In 1868 the Society began the publication of the *Canadian Entomologist*, a monthly magazine of systematic and popular Entomology, which was edited by Messrs. Bethune and Saunders in turn for over forty years, and is now in its fifty-first volume, edited by Prof. E. M. Walker of Toronto.

In 1870 the Society issued its first Annual Report on Economic Entomology, and has continued the publication ever since. In 1871 the Society was incorporated by the Legislature of Ontario and voted an annual grant, amounting of late years to \$1,000. Branches have been formed in Montreal, Toronto, British Columbia, and Nova Scotia, and the membership covers all the Provinces of the Dominion from the Atlantic to the Pacific. Its headquarters (for many years in London, Ontario) are now at the Guelph Agricultural College.

GUILDFORD.

SURREY ARCHAEOLOGICAL SOCIETY, Castle Arch, Guildford.

OFFICIALS.

President.—The Right Hon. Lord Ashcombe, Lord-Lieutenant of Surrey.

Hon. Secretary.—H. E. Maklen, M.A.

Publications.—Annual volumes of Collections. Occasional volumes extra.
Museum and Library at Guildford.

GUJRANWALA (Punjab).

GURU NANAK KHALSA COLLEGE, Gujranwala, Punjab.

Affiliated to the University of the Punjab, Lahore.

OFFICIALS.

President.—S. Gopal Singh, Reis.

Principal.—P. B. Kewalramani.

Secretary.—S. Narain Singh, B.A.

PROFESSORS.

Professors :

P. B. Kewalramani, *Philosophy and History.*

S. T. Singh, *Theology and English.*

S. S. Singh, *Sanskrit.*

Library.—The College Library.

Professors—Continued :

M. A. Jabbar, *Arabic and Persian.*

L. A. Dass, *Mathematics and English.*

Assistant Professor :

S. R. Singh, *English and Divinity.*

Librarian : S. P. Singh.

HALIFAX (Nova Scotia).

DALHOUSIE UNIVERSITY, Halifax, Nova Scotia. (1918.)

Sessions : One of about thirty-two weeks' duration.

Students (1919-20) : 611.

Budget (1918-19) : \$75,000,00.

OFFICIALS.

President.—A. Stanley Mackenzie, Ph.D., D.C.L., F.R.S.C.

Dean of the College.—Howard Murray, B.A., LL.D.

Dean of the Faculty of Law.—Donald A. MacRae, Ph.D.

Secretary of the Faculty of Medicine.—D. Fraser Harris, M.D., D.Sc., F.R.S.S.E., and C.

Dean of the Faculty of Dentistry.—Frank Woodbury, D.D.S.

Registrar of the Faculty of Arts and Science.—Murray Macneill, M.A.

Adviser to Women Students of the University.—Eliza Ritchie, B.L., Ph.D.

Librarian of the University Library.—A. MacMechan, Ph.D.

Degrees conferred :

<i>Degrees.</i>	<i>Hoods.</i>
B.A. - -	Black hood, lined with white silk, bordered with white fur.
M.A. - -	Black hood, lined with crimson silk.
B.Sc. - -	Black hood, lined with white silk, bordered with scarlet silk.
M.Sc. - -	Black hood, lined with scarlet silk.
B.Mus. - -	Black hood, lined with white silk, bordered with lavender silk.
Phm.B. - -	Black hood, lined with white silk, bordered with dark blue silk.
LL.B. - -	Black hood, lined with white silk, bordered with gold-coloured silk.
M.D., C.M.	Black hood, lined with scarlet silk, bordered with white silk.
D.D.S. - -	Black hood, lined with scarlet silk, bordered with gold-coloured silk.
LL.D. - -	Black hood, lined purple silk.

PROFESSORS.

Professors :

- A. MacMeehan, *English Language and Literature.*
 H. Murray, *Classics.*
 E. Mackay, *Chemistry.*
 H. P. Jones, *Modern Languages.*
 M. Macneill, *Mathematics.*
 H. L. Bronson, *Physics.*
 D. F. Harris, *Physiology.*
 J. E. Todd, *History and Political Economy.*
 J. N. Finlayson, *Civil Engineering.*
 H. L. Stewart, *Philosophy.*
 D. A. MacRae, *Constitutional and International Law.*
 Hon. B. Russell, *Contracts, Lecturer on Sales and Equity Jurisprudence.*
 M. A. Curry, *Obstetrics and Diseases of Women and Children.*
 M. Chisholm, *Clinical Surgery.*
 G. M. Campbell, *Clinical Medicine.*
 W. H. Hattie, *Mental Diseases.*
 L. M. Silver, *Medicine and Clinical Medicine.*
 M. A. B. Smith, *Clinical Medicine.*
 J. Stewart, *Surgery.*

Professors—Continued :

- A. F. Buckley, *Materia Medica.*
 E. V. Hogan, *Surgery and Clinical Surgery.*
 H. K. McDonald, *Clinical Surgery*
 A. G. Nicholls, *Pathology and Bacteriology.*
 J. Cameron, *Anatomy.*
 F. Woodbury, *Prosthetic Dentistry and History, Ethics and Jurisprudence.*
 A. W. Cogswell, *Dental Pathology and Therapeutics.*
 F. W. Ryan, *Operative Dentistry.*
 G. K. Thomson, *Crown and Bridge Work, Ceramics and Hygiene.*
 S. G. Ritchie, *Dental Anatomy and Comparative Dental Anatomy.*
 W. W. Woodbury, *Orthodontia.*
 A. F. Buckley, *Materia Medica.*

Associate Professor :

- W. Bruce Almon, *Obstetrics.*

Assistant Professors :

- D. S. McIntosh, *Geology.*
 C. Moore, *Biology.*
 39 Lecturers, 3 Instructors, 5 Demonstrators, 2 Examiners.

Post-Graduate Courses.—Leading to M.A., and M.Sc.

Museums.—Museum of Natural History, Geology, and Indian Antiquities contains valuable collections.

Libraries.—

University Library contains 20,000 volumes and 5,000 pamphlets.

Law Library contains 8,000 volumes.

AFFILIATED INSTITUTIONS.

- Presbyterian College, Halifax.
 Prince of Wales College at Charlottetown, P.E.I.
 Halifax Conservatory of Music.
 The Maritime College of Pharmacy, Halifax.
 Halifax Ladies' College.
 Convent of the Sacred Heart, Halifax.
 Mount St. Vincent Academy, Halifax.

HAMILTON (New York).

COLGATE UNIVERSITY, Hamilton, New York. (1819.)

Terms: Two semesters.

Students: 550.

OFFICIALS.

President.—Elmer B. Bryan, LL.D., L.H.D.

Vice-President.—Melbourne S. Read, Ph.D.

Dean of the College.—William H. Crawshaw, Litt.D., LL.D.

Dean of the Theological Seminary.—John F. Vichert, D.D.

Degrees conferred.—A.B., B.S., Th.B., A.M., M.S., B.D.

PROFESSORS.

FACULTY OF THE COLLEGE.

Professors:

M. S. Read, *Psychology and Education.*

J. M. Taylor, *Mathematics.*

J. F. McGregory, *Chemistry.*

W. H. Crawshaw, *General Literature.*

J. Greene, *Latin.*

R. W. Moore, *German Language and Literature.*

A. P. Brigham, *Geology.*

W. M. Chester, *Biology.*

C. D. Child, *Physics.*

F. C. Ewart, *Romance Languages.*

E. C. Huntington, *Physiology and Hygiene.*

E. W. Goodhue, *Economics and Socio-*

logy.
F. H. Allen, *History and Politics.*

E. W. Smith, *English Literature and Public Speaking.*

A. E. Alton, *Biblical Literature.*

F. C. French, *Philosophy.*

W. H. Hoerrner, *Music.*

Associate Professors:

F. L. Shepardson, *Greek.*

A. W. Smith, *Mathematics.*

R. B. Smith, *Chemistry.*

A. B. Stewart, *Mathematics (Engineering).*

H. O. Whitnall, *Mineralogy and Economic Geology.*

Associate Professors—Continued:

R. W. Foley, *Economics and Sociology.*

W. G. Spence, *Latin.*

H. G. Good, *Psychology and Education.*

W. F. Langworthy, *Biology.*

F. Mason Jones, *Romance Languages.*

R. G. Ingraham, *Rhetoric.*

Assistant Professors:

E. P. Sisson, *Mathematics.*

J. A. Lahey, *Chemistry.*

F. A. MacIntyre, *History.*

Lt.-Col. J. Ballantine, *Director of Military Instruction.*

FACULTY OF THE THEOLOGICAL SEMINARY.

Professors:

W. H. Maynard, *Ecclesiastical History.*

D. F. Estes, *New Testament Interpretation.*

G. R. Berry, *Old Testament Interpretation.*

J. B. Anderson, *Ecclesiology and the English Bible.*

W. H. Allison, *Ecclesiastical History.*

J. F. Vichert, *Christian Theology.*

Professorial Lecturer:

W. M. Lawrence, *Christian Ethics.*

University Library, 85,000 bound volumes.

HAMILTON COLLEGE. See CLINTON.

HANOVER (New Hampshire).

DARTMOUTH COLLEGE, Hanover, New Hampshire, U.S.A. (1769.)

Semesters: Two a year.

Students: 1,738.

OFFICIALS.

President.—E. M. Hopkins, Litt.D., LL.D.

Dean.—Craven Laycock, A.M.

Registrar.—Howard Murray Tibbetts, A.M.

Degrees conferred.—A.B., B.S., A.M., M.S., C.E., M.C.S.

PROFESSORS.

THE ACADEMIC FACULTY.

Professors :

- E. J. Bartlett, *Chemistry*.
 L. B. Richardson, *Chemistry*.
 G. D. Lord, *Classical Archeology*.
 C. D. Adams, *Greek Language and Literature*.
 C. A. Proctor, *Physics*.
 C. R. Lingley, *History*.
 E. F. Clark, *German*.
 W. Patten, *Zoology*.
 H. D. Foster, *History*.
 F. P. Emery, *English*.
 J. H. Gerould, *Zoology*.
 R. H. Jordan, *Education*.
 W. A. Robinson, *Political Science*.
 H. D. Dozier, *Economics*.
 M. Keir, *Economics*.
 L. H. Dow, *French Language and Literature*.
 H. E. Burton, *Latin Language and Literature*.
 A. K. Hardy, *German*.
 J. M. Poor, *Astronomy*.
 W. A. Adams, *German*.
 G. F. Hull, *Physics*.
 W. K. Stewart, *Comparative Literature*.
 P. O. Skinner, *Romance Languages*.
 C. E. Bolser, *Organic Chemistry*.
 J. W. Bowler, *Hygiene and Physical Education*.
 N. E. Gilbert, *Physics*.
 C. C. Stewart, *Physiology*.
 J. W. Goldthwait, *Geology*.
 W. H. Shelton, *Intellectual and Moral Philosophy*.
 C. N. Haskins, *Mathematics*.
 C. H. Page, *English*.
 J. W. Young, *Mathematics*.
 C. A. Phillips, *Economics*.
 F. M. Anderson, *History*.
 H. T. Moore, *Psychology*. [Science.
 J. P. Richardson, *Law and Political Science*.
 W. H. Wood, *Biblical History and Literature*.
 L. B. McWhood, *Music*.
 A. H. Washburn, *International Law*.
 E. B. Woods, *Sociology*.

Assistant Professors :

- L. S. Hastings, *Rhetoric and Oratory*.
 A. H. Chivers, *Botany*.
 L. Griggs, *Zoology*.
 A. H. Basye, *History*.
 F. J. Neef, *German*.
 R. D. Beetle, *Mathematics*.
 E. R. Greene, *Romance Languages*.
 F. L. Childs, *English*.
 R. W. Jones, *German*.
 H. L. Hillman, *Physical Education*.
 K. A. Robinson, *English*.
 L. D. White, *Political Science*.
 W. S. Messer, *Latin*.

Assistant Professors—Continued :

- W. Shumway, *Biology*.
 R. C. Nemial, *Latin*.
 A. B. Meservey, *Physics*.
 W. C. Shaw, *Public Speaking*.
 P. S. Dow, *Graphics and Engineering*.
 E. G. Bill, *Mathematics*.
 F. E. Guyer, *French*.
 F. M. Morgan, *Mathematics*.
 G. B. Zug, *Modern Art*.
 D. Lambuth, *English*.
 L. C. Mathewson, *Mathematics*.
 S. G. Patterson, *Romance Languages*.
 A. J. Searlett, *Chemistry*.
 W. K. Wright, *Philosophy*.
 C. H. Forsyth, *Mathematics*.
 L. L. Silverman ,,

THE MEDICAL FACULTY.

Professors :

- G. D. Frost, *Clinical Medicine*.
 J. M. Gile, *Physical Diagnosis and Clinical Surgery*.
 P. Bartlett, *Surgery*.
 H. N. Kingsford, *Pathology and Bacteriology*.
 F. P. Lord, *Anatomy*. [teriology.

Assistant Professors :

- K. N. Atkins, *Bacteriology*.
 O. B. Gilbert, *Pharmacology*.
 1 Instructor.

THE THAYER SCHOOL FACULTY.

Professors :

- C. A. Holden, *Civil Engineering*.
 F. E. Austin, *Electrical Engineering*.
 R. R. Marsden, *Civil Engineering*.
 1 Instructor.

Assistant Professor :

- A. P. Richmond, *Civil Engineering*.

THE TUCK SCHOOL FACULTY.

President :

- E. M. Hopkins, Litt.D., LL.D.

Dean :

- W. R. Gray.

Secretary :

- G. H. Taypley, M.C.S.

Professors :

- H. S. Person, *Business Organization and Management*.
 W. R. Gray, *Accounting*.
 W. H. Murray, *Modern Languages*.
 C. A. Phillips, *Banking*.
 H. R. Wellman, *Marketing*. [tion.
 N. G. Burleigh, *Business Organiza-*

Assistant Professor :

- R. Brackett, *Commercial Law*.

Lecturer and Supervisor :

- J. P. Taylor, *Field Work, Commercial Executive Practice*.

Post-Graduate Courses.—For the degrees of A.M. and M.S.

Museum.—Butterfield Museum, containing Biological, Ethnological, and Geological Collections. *Curator* : J. W. Goldthwait.

Libraries.—

College Library of 150,000 volumes.

Reference Library of 10,000 volumes.

12 Departmental Libraries.

Librarian : N. L. Goodrich, A.M., B.L.S.

HARPER ADAMS, AGRICULTURAL COLLEGE. See NEWPORT.

HARTFORD (Connecticut).

TRINITY COLLEGE, Hartford, Conn. (1823.)

The College was founded by Episcopalians largely as a protest against what, at the time, was regarded as the narrow sectarianism of Yale College, and in the charter was included a clause guaranteeing for ever the non-sectarian character of the institution. The College has always lived up to this section of its charter.

This is now past history, and acrimonious sectarian discussions and animadversions are out of date. The two colleges work together in harmony to further the cause of education.

Terms : From September to June. Recess of two weeks at Christmas, and one of ten days at Easter.

Students : Normally about 250.

Budget : \$120,000,000.

OFFICIALS.

President.—Henry A. Perkins, M.A., E.E.

Acting Secretary of the Faculty.—F. Cole Babbitt, Ph.D.

Registrar.—Arthur Adams, Ph.D.

Degrees conferred :

<i>Degrees.</i>	<i>Hoods.</i>
B.A. - -	Black stuff, edged with palatinate purple silk.
B.Sc. - -	Black stuff, edged with light blue silk.
Litt. B. - -	Black stuff, edged with russet brown silk.
B.D. - -	Black silk, edged with scarlet silk.
L.L.B. - -	Black silk, edged with dark blue silk.
Mus.Bac. - -	Black silk, edged with pink silk.
M.A. - -	Black silk, lined with palatinate purple silk.
D.D. - -	Scarlet cloth, lined with black silk.
Litt.D. - -	Scarlet silk, lined with russet brown silk.
L.L.D. - -	Scarlet silk, lined with dark blue silk.
C.L.D. - -	Crimson silk, lined with black silk.
Mus.D. - -	White silk, lined with pink silk.
Ph.D. - -	Black silk, lined with purple silk.
M.D. - -	Scarlet silk, lined with maroon silk.

PROFESSORS.

Professors:

Rev. J. J. McCook, *Modern Languages.*
 R. B. Riggs, *Chemistry.*
 F. C. Babbitt, *Greek Language and Literature.*
 W. M. Urban, *Philosophy.*
 H. A. Perkins, *Physics.*
 G. A. Kleene, *Economics.*
 C. A. Fischer, *Mathematics and Astronomy.*
 C. E. Rogers, *Civil Engineering.*
 H. C. Swan, *Physiology and Physical Training.*
 Adams, *English.*

Professors—Continued :

Ler. C. Barret, *Latin Language and Literature.*
 F. W. Carpenter, *Biology.*
 S. L. Galpin, *Romance Languages.*
 E. R. Humphrey, *History and Political Science.*
 O. Shepard, *English Literature.*

Assistant Professors :

H. M. Dadouisan, *Physics.*
 E. C. Stone, *Chemistry.*
 2 Instructors.

Post-Graduate Courses.—Almost every year a few special courses are arranged for resident students, but no instruction for graduate students is regularly offered.

Museums of Biology, Geology, and Mineralogy.

Library.—Over 85,000 volumes and 45,000 pamphlets. *Librarian:* Arthur Adams, Ph.D.

HARTFORD SEMINARY FOUNDATION, Hartford, Conn.

Founded as Hartford Theological Seminary in 1834.

Reorganized as Hartford Seminary Foundation, 1913.

Terms: Two semesters.

Students: 120.

OFFICIALS.

President of the Foundation.—W. Douglas Mackenzie, D.D., LL.D.

Dean of the Theological Seminary.—M. W. Jacobus, D.D.

Dean of the School of Pedagogy.—E. H. Knight, D.D.

Dean of the School of Missions.—E. W. Capen, Ph.D.

Secretary of the Foundation.—C. S. Lane, D.D.

Degrees conferred.—S.T.B., Pd.B., S.T.M., Pd.M., S.T.D., Ph.D.

Hoods are lined with the colours of the Foundation, old gold; the colours of the borders are in accord with the system of American Universities for higher degrees.

PROFESSORS.

Professors:

W. S. Pratt, *Liturgics.*

M. W. Jacobus, *New Testament Exegesis.*

E. K. Mitchell, *Early Church History.*

(Vacant), *Practical Theology.*

A. L. Gillett, *Apologetics.*

L. B. Paton, *Old Testament Exegesis.*

D. B. Macdonald, *Semitic Languages and Muhammadanism.*

E. H. Knight, *New Testament Language and Literature.*

(Vacant), *Psychology.*

W. D. Mackenzie, *Christian Theology.*

E. E. Nourse, *New Testament Theology.*

C. M. Geer, *Medieval and Modern Church History.*

O. M. Baxter (Miss), *Home Economics.*

Professors—Continued:

C. S. Lane, *Church History.*

J. D. Adam, *Practical Theology.*

W. H. Worrell, *Phonetics.*

E. W. Capen, *Sociology.*

A. J. W. Myers, *Pedagogy.*

L. Hodous, *Missions in China.*

W. C. Willoughby, *Missions in Africa.*

Associate Professors:

C. S. Thayer, *Bibliology.*

M. H. Ananikain, *History and Languages of Turkey.*

M. S. Platt (Mrs.), *Missionary Practice.*

K. L. Hill (Miss), *Missionary Practice.*

1 Extension Lecturer, 9 Instructors,
20 Lecturers and 2 Tutors.

Post-Graduate Courses.—The seminary desires in every way to encourage the extension of theological study to four years and to provide for those who wish to specialize in any Department. Graduates of this or other seminaries have the privileges of tuition, rooms, scholarships, etc., enjoyed by undergraduates.

Classification of Courses.—Graduate Courses are of two kinds, Major Courses and Minor Courses. Major Courses are reckoned as equivalent to 90 hours of instruction; Minor Courses as equivalent to 30 hours. In addition to courses specifically offered to graduates, certain undergraduate courses may also be taken during the graduate year.

Courses are grouped in five departments, namely: Old Testament, New Testament, History, Systematics, Practics. This grouping may not under all circumstances be rigidly adhered to. For example, certain courses that are grouped under Systematics might be reckoned to History, etc.

Museum.—The main portion of the Museum comprises the collection of missionary curiosities, for many years on exhibition in the rooms of the American Board of Commissioners for Foreign Missions at Boston, which has now been deposited with the Seminary. It includes a great variety of objects illustrating the customs and worship of races among which missions have been established. This collection has been arranged geographically, and forms a Missionary Museum of unusual attractiveness. ⑤

Library.—The Case Memorial Library is equalled by few, if any, theological libraries of this country. It has secured the important published collections of Greek Papyri and Inscriptions and the allied treatises and periodicals, which furnish abundant material for the study of Hellenistic Greek. Adequate provision has also been made for work in the Christian Oriental languages: Syriac, Ethiopic, and Coptic.

AFFILIATED INSTITUTIONS.

Hartford Theological Seminary.
Hartford School of Religious Pedagogy.
Kennedy School of Missions.

HARVARD UNIVERSITY. See CAMBRIDGE (Mass.).

HELWAN OBSERVATORY. See CAIRO.

HINDU COLLEGE. See DELHI.

HOBART (Tasmania).

THE UNIVERSITY OF TASMANIA, Hobart, Tasmania. (1890.)

Terms: Four per year.

OFFICIALS.

Chancellor.—The Hon. Tetley Grant, C.M.G., M.A.
Vice-Chancellor.—William Joshua Tilley Stops, LL.B.
Warden of Senate.—George Wilson Waterhouse, B.A.
Vice-Warden of Senate.—The Very Rev. Robert Snowdon Hay, B.A.
Registrar.—Montague M. Ansell, B.A.

Degrees conferred:

Degrees.

- | | | |
|-----------|---|--|
| | <i>Hoods.</i> | |
| B.A. - - | Black silk hood, with a two-inch lining of dark blue silk. | |
| M.A. - - | Black silk hood, lined entirely with dark blue silk. | |
| B.Sc. - - | Black silk hood, with a two-inch lining of white silk. | |
| M.Sc. - - | Black silk hood, lined entirely with white silk. | |
| D.Sc. - - | Black silk hood (as Doctor in Oxford University), lined entirely with white silk. | |
| LL.B. - - | Black silk hood, with a two-inch lining of crimson silk. | |
| LL.M. - - | Black silk hood, lined entirely with crimson silk. | |
| LL.D. - - | Black silk hood (as Doctor in Oxford University), lined entirely with crimson silk. | |

PROFESSORS.

W. H. Williams, <i>Classics and English Literature.</i> A. McAulay, <i>Mathematics.</i> D. G. McDougall, <i>Law.</i>	T. T. Flynn, <i>Biology.</i> J. H. Mackay, <i>Engineering.</i> R. L. Dunbabin, <i>Classics.</i> 9 Lecturers, 4 Student Assistants.
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ROYAL SOCIETY OF TASMANIA, Hobart. (1843.)

The Royal Society of Tasmania is the oldest Scientific Society in Australasia.

Patron.—His Majesty the King.
President.—The Governor of Tasmania.
Secretary and Librarian.—Clive E. Lord.

Publication.—Papers and Proceedings.

THE TASMANIAN MUSEUM AND ART GALLERY, AND BOTANICAL GARDENS
Hobart. (1844.)

Curator.—Clive E. Lord.
Superintendent of Gardens.—John Wardman.

THE TASMANIAN FIELD NATURALISTS' CLUB, Hobart. (1904.)

Secretary.—Clive E. Lord.

HONG KONG (China).**HONG KONG UNIVERSITY.** No particulars received.**ROYAL OBSERVATORY,** Hong Kong, China. (1883.)**British Colonial Observatory,** 1883.

Meteorological, Magnetical, and Time Observations.

Daily Weather Forecasts and Storm Warnings.

OFFICIALS.

Director.—T. F. Claxton, F.R.A.S.*Chief Assistant.*—C. W. Jeffries.*First Assistant.*—B. D. Evans.

7 Local Assistants and Telegraphists.

Publications.—

Daily Weather Map of the Far East for 6 a.m. (120th meridian time.)

Daily Weather Report.

Monthly Meteorological Bulletin.

Annual Report of the Director.

HONOLULU (Hawaii).**FEDERAL EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.***Agronomist.*—J. M. Westgate.**BERNICE PAUAAHI BISHOP MUSEUM OF POLYNESIAN ETHNOLOGY AND NATURAL HISTORY.**

OFFICIALS.

Acting Director.—Dr. Herbert E. Gregory.*Director Emeritus and Curator of Anthropology.*—Dr. Wm. T. Brigham.*Honorary Curator of Mollusca.*—Dr. Wm. H. Dall.*Curator of Polynesian Ethnology.*—J. F. G. Stokes.*Curator of Pulmonata.*—Dr. C. M. Cooke.*Honorary Curator of Entomology.*—Otto H. Swezey.*Curator of Botany.*—C. N. Forbes.*Acting Librarian.*—Miss C. G. Diekerman.**Library.**—About 9,000 volumes. *Librarian:* Miss E. B. Higgins.**Publications.**—Occasional Papers, I.-VI. 1898; *Memoirs*, I.-VII., 1899; *Miscellaneous*, Nos. 1-5, 1892.**SUGAR PLANTERS' EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.***Director.*—H. P. Agee.**ILLINOIS UNIVERSITY.** See **URBANA.****INDIANA UNIVERSITY.** See **BLOOMINGTON.****INDORE (Central India).****INDORE CHRISTIAN COLLEGE,** Indore, Central India. (1884.)

Affiliated to the University of Allahabad.

Terms: Two a year.*Students:* 175.

OFFICIALS.

Principal.—R. A. King, M.A., B.D., D.D.*Librarian.*—D. Ananten.

PROFESSORS.

A. A. Scott, *Metaphysics.*H. W. Lyons, *Economics.*

6 Other Professors.

Museum of Economics.

IOWA CITY (Iowa).

THE STATE UNIVERSITY OF IOWA, Iowa City, Iowa. (1847.)

Terms : Three, and a Summer Session.

Students : 3,707.

OFFICIALS.

President.—Walter A. Jessup, Ph.D.*Secretary.*—William H. Bates.*Secretary University Senate.*—Elmer A. Wilcox, B.A.*University Examiner and Registrar.*—Herbert C. Doreas, M.A.

Degrees conferred.—B.A., B.S., LL.B., M.D., D.D.S., Ph.G., Ph.C., B.S. in Ph., B.E., B.S. in H.E., B.S. in Com., B.Mus., M.A., M.S., Ph.D., C.E., E.E., M.E.

PROFESSORS.

COLLEGE OF LIBERAL ARTS.

Professors :

- G. T. W. Patrick, *Philosophy*.
 C. B. Wilson, *German*.
 C. C. Nutting, *Zoology*.
 E. W. Rockwood, *Chemistry*.
 G. L. Houser, *Animal Biology*.
 B. F. Shambaugh, *Political Science*.
 B. Shimek, *Botany*.
 F. H. Potter, *Latin*.
 C. E. Seashore, *Psychology*.
 H. G. Plum, *History*.
 H. F. Wickham, *Entomology*.
 E. D. Starbuck, *Philosophy*.
 C. H. Weller, *Greek, History of Art*.
 S. H. Bush, *Romance Languages*.
 G. F. Kay, *Geology*.
 R. B. Wylie, *Morphological Botany*.
 M. C. Mumma, *Military Science and Tactics*.
 G. W. Stewart, *Physics*.
 C. A. Cumming, *Graphic and Plastic Arts*.
 P. S. Peirce, *Economics*.
 A. C. Trowbridge, *Geology*.
 O. E. Klingaman, *Social Welfare*.
 R. A. Wardall (Miss), *Home Economics*.
 W. E. Hays, *Music*.
 G. G. Benjamin, *History*.
 F. E. Horack, *Political Science*.
 B. T. Baldwin, *Child Welfare*.
 A. Daniels (Miss), *Child Welfare*.
 H. H. Jones, *Out-door Sports*.
 H. L. Rietz, *Mathematics*.
 H. Craig, *English*.
 P. G. Clapp, *Music*.
 B. L. Ullman, *Latin*.
 A. M. Schlesinger, *History*.

Associate Professors :

- R. P. Baker, *Mathematics*.
 P. Hunt, *English*.
 G. N. Merry, *Public Speaking*.
 L. Pelzer, *History*.
 J. F. Reilly, *Mathematics*.
 L. P. Sieg, *Physics*.
 S. B. Sloan, *English*.
 C. M. Case, *Sociology*.

Associate Professors—Continued :

- E. H. Lauer, *German*.
 J. N. Pearce, *Chemistry*.
 E. F. Piper, *English*.
 M. A. Shaw, *English*.
 E. N. S. Thompson, *English*.
 C. F. Ward, *Romance Languages*.
 A. O. Thomas, *Geology*.
 N. R. Whitney, *Economics*.
 C. E. Young, *Romance Languages*.
 C. E. Cousins, *Romance Languages*.
 L. C. Raiford, *Chemistry*.
 H. L. Olin, *Chemistry*.
 E. L. Waterman, *Public Health*.
 F. A. Stromsten, *Animal Biology*.

Assistant Professors :

- M. C. Williams (Miss), *Psychology*.
 H. R. Dill, *Zoology*.
 R. H. Sylvester, *Psychology*.
 W. L. Myers, *English*.
 J. Van der Zee, *Political Science*.
 J. C. Briggs, *Political Science*.
 H. Larsen, *English*.
 G. W. Hewlett, *Physics*.
 J. H. Scott, *English*.
 F. E. Haynes, *Sociology*.
 C. M. Daley (Miss), *History*.
 E. O. Dieterich, *Physics*.
 P. A. Bond, *Chemistry*.
 N. S. Aurner (Mrs.), *English*.
 E. W. Chittenden, *Mathematics*.
 J. S. Magnuson, *Latin*.
 J. Runner, *Geology*.
 C. H. Farr, *Botany*.
 H. T. Nightingale, *Political Science*.
 K. H. Porter, *Political Science*.

SCHOOL OF COMMERCE.

Professor :

- N. A. Brisco, *Commerce* (Director).

Associate Professors :

- H. B. Whaling, *Transportation*.
 J. F. Reilly, *Statistics*.
 C. F. Kurtz, *Business Organization*.
 R. A. Stevenson, *Commerce*.
 J. H. Knight, *Economics*.

Assistant Professor :

- C. W. Wassam, *Commerce*.
 W. W. Jennings, *Commerce*.
 E. W. Hills, *Commerce*.

COLLEGE OF EDUCATION.**Professors :**

- W. F. Russell, *Education*.
 F. C. Ensign, "
 E. Horn, "
 C. L. Robbins, "

Associate Professor :

- E. E. Lewis, *Education*.

Assistant Professors :

- I. King, *Education*.
 E. J. Ashbaugh, *Education*.
 1 Lecturer, 10 Instructors.

COLLEGE OF LAW.**Professors :**

- D. O. McGovney.
 E. A. Wilcox.
 H. C. Horack.
 P. Bordwell.
 H. F. Goodrich.

Associate Professors :

- R. M. Perkins.
 F. H. Randall.

COLLEGE OF APPLIED SCIENCE.**Professors :**

- W. G. Raymond, *Civil Engineering*.
 A. H. Ford, *Electrical Engineering*.
 B. J. Lambert, *Structural Engineering*.
 S. M. Woodward, *Theoretical and Applied Mechanics*.
 J. B. Hill, *Electrical Engineering*.
 F. G. Higbee, *Descriptive Geometry and Drawing*. [ing.
 B. P. Fleming, *Mechanical Engineering*.

Associate Professors :

- J. H. Dunlap, *Hydraulics and Sanitary Engineering*.
 D. P. Gilmore, *Structural Engineering*.
 R. B. Kittredge, *Railroad Engineering*.
 S. H. Sims, *Mechanics*.
 T. G. Caywood, *Descriptive Geometry and Drawing*.

Assistant Professors :

- F. E. Holmes, *Mechanics and Hydraulics*.
 G. J. Keller, *Mechanical Engineering*.
 A. H. Holt, *Descriptive Geometry and Drawing*.

COLLEGE OF MEDICINE, DENTISTRY, AND PHARMACY.**Heads of Departments :**

- E. W. Rockwood, *Chemistry and Toxicology*.

Heads of Departments—Continued :

- C. S. Chase, *Materia Medica and Pharmacology*.
 W. R. Whites, *Obstetrics and Gynecology*.
 L. W. Dean, *Ophthalmology, Oto-Laryngology, and Oral Surgery*.
 F. T. Breene, *Consulting Oral Surgeon, Operative Dentistry and Therapeutics*.
 H. Albert, *Pathology and Bacteriology*.
 J. T. McClintock, *Physiology*.
 H. J. Prentiss, *Anatomy and Histology*.
 C. van Epps, *Therapeutics*.
 C. P. Howard, *Internal Medicine*.
 J. B. Kessler, *Dermatology*.
 C. J. Rowan, *Surgery*.
 A. H. Byfield, *Pediatrics*.
 G. Royal, *Homeopathic Materia Medica and Therapeutics*.

Professors :

- S. T. Orton, *Psychiatry*.
 A. Steindler, *Orthopedics*.
 W. F. Boiler, *Ophthalmology, Oto-Laryngology, and Oral Surgery*.
 E. G. Birge, *Epidemiology Hygiene and Preventive Medicine*.
 E. A. Rogers, *Clinical Dentistry, and Roentgenology*.
 R. H. Volland, *Operative Technique and Oral Pathology*.
 W. J. Teeters, *Pharmacy and Pharmacognosy*.
 R. A. Fenton, *Oral Surgery*.

Associate Professors :

- J. J. Lambert, *Anatomy and Histology*.
 E. M. McEwen, "
 R. A. Kneiler, *Pharmacy*.

Assistant Professors :

- N. L. Beye, *Surgery*.
 P. Reed, *Obstetrics and Gynecology*.
 N. G. Aleock, *Genito-Urinary Surgery*.
 H. A. Calhoun (Miss), *Pathology and Bacteriology*.
 R. C. Coleman, *Gynecology and Obstetrics*.
 C. B. McGlumphy, *Pathology and Bacteriology*.
 R. B. Gibson, *Theory and Practice*.
 Z. M. Cooper (Miss), *Pharmacy*.
 J. J. Hinman, *Water and Sewage Analysis*.
 A. W. Bryan, *Dental Therapeutics*.
 H. F. Goodrich, *Pharmacy Law*.
 A. L. Lane, *Military Science and Tactics*.
 T. L. Patterson, *Physiology*.
 H. O. Collins, *Superintendent University Hospital*.
 W. J. McDonald, *Director of Student Health Department*.

In addition, there are 4 Lecturers, 12 Associates, 69 Instructors, and 50 Assistants.

Post-Graduate Courses.—

- (a) In all departments representing the Liberal Arts and Sciences.
 (b) In Medicine.
 (c) In Engineering.
 (d) In Education.
 (e) In Commerce.

Museums.—Anatomical and Histological Museum, Museum of Art and Archeology, Botanical Museum, Commercial Museum, Dental Museum, Geological Museum, Pathological Museum, Pharmaceutical Museum, Roman and Pompeian Museum, Zoological Museum.

Libraries.—

General University Library, 146,700 volumes. *Librarian* : Miss J. E. Roberts.
 Law Library, 23,712 volumes.

IOWA ACADEMY OF SCIENCES. See **DES MOINES.**

IRELAND, NATIONAL UNIVERSITY OF. See **DUBLIN.**

ISABELLA THORBURN COLLEGE. See **LUCKNOW.**

ISLAMIA COLLEGE. See **LAHORE.**

ITHACA (New York).

CORNELL UNIVERSITY, Ithaca, New York. (1865.)

Terms : Three a year.

Students : 3,505.

OFFICIALS.

President.—J. G. Schurman, A.M., D.Sc., LL.D.

Comptroller.—E. L. Williams.

Secretary.—W. Patterson.

Degrees conferred.—A.B., A.M., B.Com., LL.B., M.D., D.V.M., B.Sc., B.Arch., C.E., M.E., M.S., M.Arch., M.C.E., M.M.E., M.F., M.L.D., M.S.Agr., Ph.D.

PROFESSORS.**COLLEGE OF ARTS AND SCIENCES.****Professors :**

- F. Thilly, *Philosophy.*
 E. L. Nichols, *Physics.*
 G. L. Burr, *Medieval History.*
 C. E. Bennett, *Latin.*
 J. E. Creighton, *Logic and Metaphysics.*
 E. B. Titchener, *Psychology.*
 N. Schmidt, *Semitic Languages and Literature.*
 G. P. Bristol, *Greek.* [Literature.
 W. F. Willcox, *Economics and Statistics.*
 L. M. Dennis, *Inorganic Chemistry.*
 J. E. Trevor, *Thermodynamics.*
 G. H. Hull, *American History.*
 W. R. Orndorff, *Organic and Physiological Chemistry.*
 W. D. Bancroft, *Physical Chemistry.*
 E. G. Merritt, *Physics.*
 C. V. P. Young, *Physical Culture.*
 A. T. Kerr, *Anatomy.*
 J. McMahon, *Mathematics.*
 J. H. Tanner
 F. Bedell, *Applied Electricity.*
 W. W. Rowlee, *Botany.*
 H. Ries, *Geology.* [and *Aesthetics.*
 W. A. Hammond, *Ancient Philosophy*
 H. E. Dann, *Music.*
 E. Albee, *Philosophy.*

Professors—Continued :

- B. F. Kingsbury, *Histology and Embryology.*
 S. Simpson, *Physiology.* [bryology.
 M. W. Sampson, *English Literature.*
 W. Strunk, *English.*
 H. C. Elmer, *Latin.*
 C. L. Durham ,, [graphic *Geology.*
 G. D. Harris, *Paleontology and Stratigraphy.*
 G. W. Cavanagh, *Chemistry.*
 J. S. Shearer, *Physics.*
 J. I. Hutchinson, *Mathematics.*
 V. Snyder, *Mathematics.*
 A. B. Faust, *German.*
 E. M. Chamot, *Sanitary Chemistry and Toxicology.* [Chemistry.
 A. W. Browne, *Inorganic and Analytical Chemistry.*
 A. C. Gill, *Mineralogy and Petrography.*
 J. P. Bretz, *American History.* [nology.
 J. G. Needham, *Entomology and Limnology.*
 G. W. Herrick, *Economic Entomology.*
 G. N. Lauman, *Rural Economy.*
 S. P. Orth, *Political Science.*
 A. A. Young, *Economics and Finance.*
 J. A. Winans, *Public Speaking.*
 O. A. Johannsen, *General Biology.*
 J. F. Mason, *Romance Languages.*
 L. Cooper, *English Language and Literature.*
 A. W. Boesch, *German.*

Professors—Continued :

- P. R. Pope, *German*.
 R. M. Ogden, *Education*.
 G. L. Hamilton, *Romance Languages and Literatures*.
 O. M. Leland, *Astronomy and Geodesy*.
 H. J. Davenport, *Economics*.
 C. Becker, *Modern European History*.
 F. A. Barton, *Military Science and C. D. Child, Physics*. [Tactics].
 F. K. Richtmyer, *Physics*.
 R. C. Gibbs, *Physics*.
 D. English, *Economics and Accounting*.
 P. Gaehr, *Physics*.

Assistant Professors :

- F. C. Prescott, *English*.
 C. S. Northup " "
 E. Blaker, *Physics*. [Literatures].
 O. G. Guerlac, *Romance Languages and H. D. Reed, Neurology and Vertebrate J. Q. Adams, English*. [Zoology].
 F. R. Sharpe, *Mathematics*.
 W. B. Carver " "
 A. Ranum " "
 H. L. Jones, *Greek*.
 E. P. Andrews, *Archeology*.
 D. C. Gillespie, *Mathematics*.
 J. C. Bradley, *Entomology*.
 O. D. Von Engeln, *Physical Geography*.
 B. S. Monroe, *English*.
 R. S. Saby, *Political Science*.
 H. P. Weld, *Psychology*.
 G. B. Muchmore, *Public Speaking*.
 L. Pumpelly, *Romance Languages and Literatures*.
 R. H. Keniston, *Romance Languages and Literatures*.
 A. P. Usher, *Economics*.
 R. P. Anderson, *Chemistry*.
 W. A. Hurwitz, *Mathematics*.
 J. B. Sumner, *Biochemistry*.
 T. R. Briggs, *Physical Chemistry*.
 A. H. Wright, *Zoology*.
 A. A. Allen, *Ornithology*.
 W. S. Foster, *Education*.
 L. N. Broughton, *English*.
 H. L. Reed, *Economics*.
 A. M. Drummond, *Public Speaking*.
 R. E. Somers, *Geology*.
 J. T. Quarles, *Music*.
 C. F. Craig, *Mathematics*.
 F. W. Owens " "
 C. C. Bidwell, *Physics*.
 E. H. Kennard " "
 A. H. Sweet, *English History*.
 A. L. Andrews, *German*.
 C. Sturgis, *Romance Languages*.
 F. M. Smith, *English*.
 A. R. Shadle, *Zoology*.
 H. E. Howe, *Physics*.
 E. L. Hunt, *Public Speaking*.
 F. G. Wick (Miss), *Physics*.
 48 Instructors, 53 Assistants.

THE MEDICAL COLLEGE.

(In the City of New York.)

Professors :

- G. Woolsey, *Clinical Surgery*.
 J. C. Edgar, *Obstetrics and Clinical J. Ewing, Pathology*. [Midwifery].
 G. Lusk, *Physiology*.
 F. S. Meara, *Therapeutics*.
 R. A. Hatcher, *Pharmacology*.
 C. R. Stockard, *Anatomy*.
 L. A. Conner, *Medicine*.
 W. J. Elser, *Bacteriology*.
 S. R. Benedict, *Chemistry*.
 C. L. Gibson, *Surgery*.
 J. E. Winters, *Clinical Medicine*.
 C. L. Dana " " "
 G. T. Elliott " " "
 F. Whiting, *Clinical Surgery*.
 E. L. Keyes " " "
 R. G. Reese " " "
 O. H. Schultze, *Medical Jurisprudence*.
 A. S. Taylor, *Clinical Surgery*.
 W. C. Thro, *Clinical Pathology*.
 A. Lambert, *Clinical Medicine*.
 C. E. Nammack, *Clinical Medicine*.
 I. S. Haynes, *Clinical Surgery*.
 W. B. Coley " " "
 J. Rogers " " "
 H. Smith " " "
 B. T. Lee " " "
 C. Wallace " " "
 H. Lilienthal " " "
 L. G. Cole, *Roentgenology*.
 J. C. Torrey, *Hygiene*.
 G. H. Kirby, *Clinical Medicine*.

Associate Professors :

- J. A. Hartwell, *Surgery and Clinical H. F. Swift, Medicine*. [Surgery].
 G. G. Ward, *Clinical Surgery*.
 F. Kennedy, *Clinical Medicine*.

Assistant Professors :

- E. F. Du Bois, *Medicine*.
 J. M. Hitzrot, *Clinical Surgery*.
 J. F. Gudernatsch, *Anatomy*.
 W. H. Sheldon, *Clinical Medicine*.
 M. Goodridge, *Therapeutics*.
 P. R. Turnure, *Clinical Surgery*.
 C. Norris, *Pathological Anatomy*.
 H. W. Frink, *Neurology*.
 J. P. Hognet, *Clinical Surgery*.
 C. Eggleston, *Pharmacology*.
 48 Instructors, 18 Clinical Instructors,
 18 Assistants, 3 Lecturers.

FACULTY OF MEDICINE.**Professors :** (In Ithaca.)

- A. T. Kerr, *Anatomy*.
 W. R. Orndorff, *Organic Chemistry*.
 B. F. Kingsbury, *Histology and Em- S. Simpson, Physiology*. [Bryology].

Assistant Professor :

- J. B. Sumner, *Biochemistry*.
 5 Instructors, (3 Assistants).

NEW YORK STATE VETERINARY COLLEGE.

Professors :

- V. A. Moore, *Comparative Pathology.*
- P. A. Fish, *Veterinary Physiology.*
- G. S. Hopkins, *Veterinary Anatomy and Anatomical Methods.*
- W. L. Williams, *Principles and Practice of Veterinary Surgery, Obstetrics, Zootechny, and Jurisprudence.*
- D. N. Udall, *Veterinary Medicine and Hygiene.*
- H. J. Milks, *Therapeutics and Small Animal Clinic.*
- J. N. Frost, *Veterinary Surgery.*
- H. H. Wing, *Animal Husbandry.*
- B. F. Kingsbury, *Histology and Embryology.*
- A. W. Browne, *Inorganic and Analytical Chemistry.*
- E. S. Savage, *Animal Husbandry.*
- M. W. Harper " "
- E. G. Merritt, *Physics.* " "
- R. C. Gibbs " "

Assistant Professors :

- E. Sunderville, *Veterinary Anatomy.*
- C. E. Hayden, *Veterinary Physiology.*
- R. R. Birch, *Superintendent of the Veterinary Experiment Station.*
- S. A. Goldberg, *Pathology.*
- H. Asmus, *Horseshoeing.*
- W. E. Muldoon, *Materia Medica.*
- W. A. Hagan, *Pathology and Bacteriology.*
- W. D. Way, *Veterinary Medicine.*
- C. M. Carpenter, *Laboratory Diagnosis.*
- H. D. Reed, *Zoology.*
- 6 Instructors, 3 Assistants.

COLLEGE OF AGRICULTURE.

(In New York State.)

Professors :

- A. R. Mann, *Rural Social Organization.*
- I. P. Roberts, *Agriculture.*
- J. H. Comstock, *Entomology and General Invertebrate Zoology.*
- H. H. Wing, *Animal Husbandry.*
- T. L. Lyon, *Soil Technology.*
- J. L. Stone, *Farm Practice.*
- J. E. Rice, *Poultry Husbandry.*
- G. W. Cavanaugh, *Agricultural Chemistry.*
- G. N. Lauman, *Rural Economy.*
- H. H. Whetzel, *Plant Pathology.*
- E. O. Fippin, *Soil Technology.*
- G. F. Warren, *Farm Management.*
- W. A. Stocking, *Dairy Industry.*
- W. M. Wilson, *Meteorology.*
- R. S. Hosmer, *Forestry.*
- J. G. Needham, *Entomology and Limnology.*
- R. A. Emerson, *Plant Breeding.*
- H. H. Love

Professors—Continued :

- D. Reddick, *Plant Pathology.*
- E. G. Montgomery, *Farm Crops.*
- G. A. Works, *Rural Education.*
- F. Rose (Miss), *Home Economics.*
- M. Van Rensselaer (Miss), *Home Economics.*
- J. A. Bizzell, *Soil Technology.*
- G. W. Herrick, *Economic Entomology.*
- H. W. Riley, *Rural Engineering.*
- H. E. Ross, *Dairy Industry.*
- H. C. Troy " "
- S. N. Spring, *Silviculture.*
- K. M. Wiegand, *Botany.*
- W. H. Chandler, *Pomology.*
- A. B. Recknagel, *Forest Management and Utilization.*
- M. W. Harper, *Animal Husbandry.*
- C. R. Crosby, *Entomology.*
- E. S. Savage, *Animal Husbandry.*
- K. C. Livermore, *Farm Management.*
- E. A. White, *Floriculture.*
- A. C. Beal " "
- H. A. Hopper, *Animal Husbandry.*
- E. S. Guthrie, *Dairy Industry.*
- M. C. Burritt, *Extension Service, and Vice-Director of Extension.*
- W. C. Baker, *Drawing.*
- M. F. Barrus, *Plant Pathology.*
- L. J. Cross, *Agricultural Chemistry.*
- O. A. Johannsen, *General Biology.*
- C. H. Myers, *Plant Breeding.*
- B. Adams, *Editor of Publications.*
- D. J. Crossley, *Extension Service.*
- A. C. King, *Farm Practice.*
- C. Bitten, *Secretary and Registrar.*
- G. A. Everitt, *Extension Teaching.*
- F. L. Griffin, *Rural Education.*
- L. Knudson, *Botany.*
- E. G. Davis, *Landscape Art.*
- R. W. Curtis " "
- C. B. Hutchison, *Plant Breeding.*
- R. W. Rees, *Pomology.*
- J. R. Schramm, *Botany.*
- H. O. Buckman, *Soil Technology.*
- R. H. Wheeler, *Extension Service.*
- W. F. Lusk, *Rural Education.*
- P. Work, *Vegetable Crops.*
- J. Bentley, *Forest Engineering.*
- P. J. Kruse, *Rural Education.*
- R. M. Stewart " "
- J. E. Boyle, *Rural Economy.*
- D. Sanderson, *Rural Organization.*
- H. C. Thompson, *Vegetable Gardening.*
- W. J. Wright, *Rural Education.*
- J. E. Boyle, *Rural Economy.*

Assistant Professors :

- J. C. Bradley, *Systematic Entomology.*
- G. C. Embody, *Agriculture.*
- H. B. Young (Mrs.), *Home Economics.*
- A. B. Comstock (Mrs.), *Nature Study.*
- H. M. Fitzpatrick, *Plant Pathology.*
- B. B. Robb, *Rural Engineering.*

Assistant Professors—Continued :

- W. W. Fisk, *Dairy Industry*.
 A. J. Warner (Miss), *Home Economics*.
 R. Gilkey, *Extension Service*.
 C. T. Gregory, *Plant Pathology*.
 L. R. Hesler " "
 W. H. Rankin " "
 E. W. Benjamin, *Poultry Husbandry*.
 A. J. Eames, *Botany*.
 J. K. Wilson, *Soil Technology*.
 E. E. Barker, *Plant Breeding*.
 R. Matheson, *Economic Entomology*.
 B. E. Hazard (Miss), *Home Economics*.
 D. Lumsden, *Floriculture*.
 J. H. Barron, *Farm Crops*.
 G. P. Scoville, *Farm Management*.
 A. A. Allen, *Ornithology*.
 L. A. Maynard, *Animal Husbandry*.
 F. M. Blodgett, *Plant Pathology*.
 H. E. Babcock, *Extension Service*.
 F. R. King, *Entomology*.
 F. E. Rice, *Agricultural Chemistry*.
 L. W. Sharp, *Botany*.
 J. C. McCurdy, *Rural Engineering*.
 C. A. Boutelle, *Animal Husbandry*.
 C. H. Royce " "
 G. H. Collingwood, *Forestry*.
 W. W. Warsaw, *Soil Technology*.
 O. F. Curtis, *Botany*.
 T. J. McInerney, *Dairy Industry*.
 E. D. Montillon, *Landscape Art*.
 J. E. Reyna, *Drawing*.
 E. L. Overholser, *Pomology*.
 A. J. Heinicke " "
 O. B. Kent, *Poultry Husbandry*.
 H. W. Schneck, *Vegetable Gardening*.
 K. J. Seulke, *Animal Husbandry*.
 L. M. Massey, *Plant Pathology*.
 B. Blackmore, *Home Economics*.
 B. A. Chandler, *Forest Utilization*.
 E. G. Misner, *Farm Management*.
 M. F. Henry (Miss), *Home Economics*.
 S. L. Brewer (Miss) " "
 H. Canon (Miss) " "
 W. K. Blodgett, *Rural Engineering*.
 M. J. Smith, *Animal Husbandry*.
 J. H. Voorhees, *Farm Crops*.
 L. Graves (Miss), *Home Economics*.
 H. Monsch (Miss) " "
 G. F. Heuser, *Poultry Husbandry*.
 W. I. Myers, *Farm Management*.
 74 Instructors, 43 Assistants.

COLLEGE OF ARCHITECTURE.**Professors :**

- C. A. Martin, *Architecture*.
 O. M. Brauner, *Drawing and Painting*.
 A. C. Phelps, *Architecture*.
 G. Young, jr. " "
 E. V. Meeks " "

Library.—University Library of 560,000 volumes. Librarian : W. Austen.

Assistant Professor :

- C. Midjo, *Freehand Drawing and Modelling*.
 L. P. Burnham, *Design*.
 G. R. Chamberlain, *Freehand Drawing*.
 S. Stevens, *Design*.
 H. S. Gutsell, *Freehand Drawing*.
 1 Instructor.

COLLEGE OF CIVIL ENGINEERING.**Professors :**

- E. E. Haskell, *Experimental Hydraulics*.
 H. S. Jacoby, *Bridge Engineering*.
 H. N. Ogden, *Sanitary Engineering*.
 F. A. Barnes, *Railroad Engineering*.
 O. M. Leland, *Geodesy and Astronomy*.
 S. G. George, *Mechanics of Engineering*.

Assistant Professors :

- J. T. Parson, *Drawing*. [lic.
 E. W. Schoder, *Experimental Hydraulics*.
 M. A. Pond, *Civil Engineering*.
 F. J. Seery " "
 E. W. Rettger, *Applied Mechanics*.
 C. L. Walker, *Sanitary Engineering*.
 P. H. Undergood, *Topographic and Geodetic Engineering*.
 E. N. Burrows, *Bridge Engineering*.
 W. L. Conwell, *Railroad Engineering*.
 L. A. Lawrence, *Topographic and*
 5 Instructors. [Geodetic Engineering.

SIBLEY COLLEGE OF MECHANICAL ENGINEERING AND THE MECHANIC ARTS.**Professors :**

- A. W. Smith, *Power Engineering*.
 D. S. Kimball, *Machine Design and Industrial Engineering*.
 G. R. McDermott, *Structural Design*.
 H. Diederichs, *Experimental Engineering*.
 A. Gray, *Electrical Engineering*. [ing.
 W. N. Barnard, *Power Engineering*.
 V. Karapetoff, *Electrical Engineering*.
 E. H. Wood, *Mechanics of Engineering*.
 C. D. Albert, *Machine Design*. [ing.
 A. E. Wells, *Machine Construction*.
 F. O. Ellenwood, *Power Engineering*.
 W. M. Sawdon, *Experimental Engineering*.

Assistant Professors :

- [ing.
 G. B. Upton, *Experimental Engineering*.
 S. S. Garrett, *Mechanics of Engineering*.
 V. R. Gage, *Experimental Engineering*.
 R. Matthews, *Power Engineering*.
 C. W. Ham, *Machine Design*.
 M. A. Lee " "
 J. G. Pertsch, *Electrical Engineering*.
 F. G. Switzer, *Hydraulics*.
 W. C. Ballard, *Electrical Engineering*.
 F. S. Rogers, *Machine Design*.
 C. E. Townsend " " [ants.
 9 Instructors, 3 Foremen, and 6 Assistants.

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—A. R. Mann.

JAMMU (Kashmir State).

PRINCE OF WALES COLLEGE, Jammu, Kashmir State. (1907.)

Affiliated to the University of the Punjab, Lahore.

Terms: Two a year.

Students: 240.

OFFICIALS.

Principal.—S. Robson, M.A.

PROFESSORS.

Professors:

S. Robson, *English*.
 Fram. M. Dadina, *Economics*.
 A. Bannerji, *English*.
 T. Sanyal
 T. L. Manghirmalani, *History*.
 U. N. Kundu, *Mathematics*.
 Siddheshwar Varma, *Sanskrit*.
 Mohammad Ibrahim, *Persian*.

Professors—Continued:

Abdul Hadi, *Arabic*.
 Seva Ram Suri, *Physics*.
 Prabhu Dayal Dhawan, *Chemistry*.
 D. N. Wadia, *Geology*.
 B. K. Basu

Assistant Professor:

M. C. Khosla, *Physics*.
 1 Demonstrator.

Library.—The College Library. Librarian: Pandit Kantha Raul.
 Museum of Geology.

JEWISH THEOLOGICAL SEMINARY. See NEW YORK.

JOHANNESBURG (South Africa).

SOUTH AFRICAN SCHOOL OF MINES AND TECHNOLOGY, Plein Square,

Johannesburg. (1896.)

Terms: Two a year.

OFFICIALS.

Principal.—Jan H. Hofmeyer, M.A.

Secretary to Senate.—R. B. Young, M.A., D.Sc., F.R.S.E.

PROFESSORS.

J. H. Hofmeyer, *Chemistry*.
 H. J. W. Tillyard, *Chemistry*.
 J. L. Landau, *Hebrew*.
 C. M. Drennan, *English, Logic, and*
 J. D. A. Krige, *Dutch*. [Ethics.
 Morgan Watkin, *French*.
 W. Keith Macgregor, *Psychology and*
Education.
 R. A. Lehfeldt, *Economics*.
 W. M. Macmillan, *History*.
 J. P. Dalton, *Mathematics*.
 H. H. Paine, *Physics*.
 J. A. Wilkinson, *Chemistry*.

C. E. Moss, *Botany*.
 H. B. Fantham, *Zoology*.
 R. B. Young, *Geology*.
 E. P. Stibbe, *Antony*.
 E. H. Cluver, *Physiology*.
 J. S. Cellier, *Mining and Surveying*.
 G. H. Stanley, *Metallurgy and Assaying*.
 R. H. Charters, *Civil Engineering*.
 J. Orr, *Mechanical Engineering*.
 H. J. S. Heather, *Electrotechnics*.
 J. Findlay, *Accounting*.
 7 Lecturers, 20 Assistants.

JOHNS HOPKINS UNIVERSITY. See BALTIMORE.

KAMPU (India).

THE CHEMICAL AND TECHNICAL LABORATORY, Kampu, Lashkar,
 Gwalior State, India.

Founded at the instigation of His Highness the Maharaja of Scindia, to undertake the analytical work of the various departments and factories of the State. Additional activities consist of the development of the mineral resources, and the industries of the State, and the training of students in Technical Analysis and Research.

OFFICIALS.

Director.—M. J. Gajjar, M.A., F.C.S.
Superintendent.—F. B. Shroff, M.A.
Research Assistant.—M. R. Engineer, B.Ag.
 4 Assistants.

KANSAS UNIVERSITY. See **LAWRENCE.**

KAPURTHALA (India).

RANDHIR COLLEGE, Kapurthala, Punjab, India. (1896.)
 Affiliated to the University of the Punjab, Lahore.

Terms: Two a year. *Students:* 180.

OFFICIALS.

Principal.—Pt. Mathura Das, M.A., LL.B. *Librarian.*—L. B. Das.

PROFESSORS.

COLLEGE OF ARTS.**Professors:**

Pt. Mathura Das, *English and Philosophy.*
 L. T. Ram, *Mathematics.*
 B. A. Singh, *Science.*
 L. J. Lal, *English and History.*

COLLEGE OF ORIENTAL LANGUAGES AND HISTORY.**Professors:**

Pandit Sir R. Shastic.
 M. M. A. Manhui Fazal, *Persian and Arabic.*
 4 Pandits, 7 Masters.

KENNAIRD COLLEGE. See **LAHORE.**

KEW ROYAL BOTANIC GARDENS. See **LONDON.**

KHALSA COLLEGE. See **AMRITSAR.**

KHARTOUM (Sudan).

GORDON MEMORIAL COLLEGE, Khartoum, Sudan. (1899.)

Budget (1919): Le. 29750.

OFFICIALS.

President.—General Sir R. Wingate.
Hon. Treasurer.—Hon. A. R. Mills, M.P.
Hon. Secretary.—Mr. F. Van De Linde.
Principal and Director of Education.—Mr. J. W. Crowfoot.
Acting Assistant Principal.—Mr. N. R. Udal.

WELLCOME TROPICAL RESEARCH LABORATORIES.

Budget (1919): Le. 13360.

Professors:

A. J. Chalmers, *Director.*
 Major R. G. Archibald, *Assist. Director and Pathologist.*
 Major W. E. Marshall, *Government Bacteriologist.*
 R. E. Massey, *Government Botanist.*
 A. F. Joseph, *Government Chemist.*
 G. A. Freak, *Assist. Government Chemist.*
 Captain F. J. Martin, *Assist. Government Chemist.*
 H. H. King, *Government Entomologist.*
 Captain H. W. Bedford, *Assist. Government Entomologist.*

GEOLOGICAL SURVEY.

Budget (1919): Le. 2250.

G. W. Grabham, *Government Geologist.*
 (Vacant), *Assist. Geologist.*

ANTIQUITIES SERVICE.

(Antiquities Museum attached.)

P. Drummond, *Acting Conservator.*

NATURAL AND ETHNOLOGICAL MUSEUM.

H. H. King, *Acting Curator.*

Library.—Arabic and Sudan. *Librarian*: S. Hillelson.

KING'S COLLEGE, UNIVERSITY OF. See WINDSOR.

KINGSTON (Jamaica).

THE INSTITUTE OF JAMAICA, Kingston, Jamaica. (1879.)

Secretary and Librarian.—Frank Cundall, F.S.A.

Objects to encourage Literature, Science, and Art in the Island.

Library of 15,000 volumes, and a special West Indian Reference Library of 5,000 volumes.

Museum of Natural History, especially rich in specimens of the fauna and flora of Jamaica; also contains many Arawak implements.

Art Gallery containing pictures illustrating the history of Jamaica.

KINGSTON (Ontario).

QUEEN'S UNIVERSITY. No particulars received.

QUEEN'S THEOLOGICAL COLLEGE, Kingston, Ontario, Canada. (1842.)

Affiliated since 1912 to Queen's University. Before that Theology formed a faculty in the University, the University being at that time connected with the Presbyterian Church.

Sessions: One a year. *Students*: 35.

OFFICIALS.

Principal.—S. W. Dyde, D.D., LL.D.

Secretary.—W. Morgan, M.A., D.D.

Degrees conferred.—The degrees of B.D. and D.D. are conferred by Queen's University on the recommendation of the Theological Senate. The College has the right to confer degrees of its own, but does not exercise it.

Hoods.—As Queen's University.

PROFESSORS.

Rev. S. W. Dyde, *Church History.*
 Rev. W. S. Jordan, *Semitic Languages and Old Testament Criticism.*
 Rev. W. Morgan, *Systematic Theology and Apologetics.*

Rev. J. F. Fadyen, *New Testament and Criticism Literature.*
 (Vacant), *Practical Theology.*
 Rev. H. T. Wallace, *Semitic Languages.*
 1 Lecturer.

KUALA LUMPUR.

DEPARTMENT OF AGRICULTURE, FEDERATED MALAY STATES. (1905.)

Head Quarters, Kuala Lumpur, Selangor, F.M.S.

OFFICIALS.

Director.—L. Lewton-Brain.

Assistant to Director.—(Vacant.)

Agricultural Chemist.—B. J. Eaton.

Assistant Agricultural Chemist.—S. W. Bunker.

Assistant Agricultural Chemist.—(Vacant, three.)

Chief Agricultural Inspector.—F. W. South.

Assistant Agricultural Inspector.—A. G. G. Ellis.
Assistant Agricultural Inspector.—F. de la Mare Norris.
Assistant Agricultural Inspector.—H. H. Stirrup.
Assistant Agricultural Inspector.—(Vacant, six.)
Inspector of Coconuts.—T. C. Nock.
Economic Botanist.—(Vacant.)
Assistant Economic Botanist.—(Vacant.)
Mycologist.—A. Sharples.
Assistant Mycologist.—W. N. C. Belgrave.
Assistant Mycologist.—(Vacant, two.)
Entomologist.—(P. B. Richards, acting) (Vacant.)
Assistant Entomologist.—P. B. Richards.
Systematic Entomologist.—C. B. Holman Hunt.
Agriculturist.—F. G. Spring.
Assistant Agriculturist.—B. Bunting.
Assistant Agriculturist.—(Vacant, two.)
Superintendent of Government Plantations.—J. Lambourne.
Superintendent of Government Plantations.—J. N. Milsum.
Agricultural Instructor.—H. W. Jack.
Agricultural Instructor.—D. H. Grist.
Physiologist.—(Vacant.)
Geneticist.—(Vacant.)

Headquarters.—Laboratories, Library, Experimental Rubber Vulcanization Factory, Experimental Papermaking Factory, Experimental Oil Machinery, Raw Rubber Factory, etc., Experimental Plantation and Botanic Gardens.

Sub-Stations.—Experimental Plantations, Batu Tiga, Kuala Kangsar, Gunong Angsi, Krian (rice), Kuala Pilah (rice and fruit).

Publications.—A monthly bulletin of tropical agriculture (Agricultural Bulletin, F.M.S.), special bulletins containing original researches, etc., by members of the Staff.

LADY HARDINGE MEDICAL COLLEGE. See DELHI.

LAFAYETTE COLLEGE. See EASTON.

LAFAYETTE (Indiana).

PURDUE UNIVERSITY. No particulars received.

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—C. G. Woodbury.

LAHORE (India).

UNIVERSITY OF THE PUNJAB, Lahore, Punjab. (1882.)

Terms : Two a year.

Budget : Income, Rs. 4,33,164.

Expenditure, Rs. 3,83,284.

OFFICIALS.

Chancellor.—His Honour Sir E. D. Maclagan, M.A., K.C.I.E., C.S.I., I.C.S.

Vice-Chancellor.—The Hon. Sir H. J. Maynard, M.A., C.S.I., I.C.S.

Registrar.—A. C. Woolner, M.A. (On leave.)

Officiating Registrar.—P. N. Dutt, B.A., B.B.

Dean of the Oriental Faculty.—Dr. Sh. Mohammed Iglal, M.A., Ph.D.

Dean of the Faculty of Arts.—Rev. E. D. Lucas, M.A., D.D.

Dean of the Faculty of Science.—A. S. Hemmy, B.A., M.Sc.

Dean of the Faculty of Medicine.—Lt.-Col. D. W. Sutherland, I.M.S., C.I.E.

Dean of the Faculty of Law.—(Vacant.)

Dean of the Faculty of Agriculture.—W. D. Roberts, B.Sc.

Degrees conferred :

<i>Degrees.</i>	<i>Hoods.</i>
D.O.L. - -	Hood scarlet, lined with pearl grey.
M.O.L. - -	Sash black, bordered and fringed with claret-coloured silk.
B.O.L. - -	Sash black, bordered with drab silk.
D.Litt. - -	Hood crimson, lined with white.
M.A. - -	Hood black, lined with claret-coloured silk.
B.T. - -	Hood black, lined with peacock blue.
B.A. - -	Hood black, lined with drab.
LL.D. - -	Hood scarlet, lined with dark blue.
LL.B. - -	Hood dark blue, lined with white.
M.D. - -	Hood scarlet, lined with dark mauve.
M.S. - -	Hood light mauve, lined with white.
M.B. - -	Hood black, lined with plum-coloured cloth.
D.Sc. - -	Hood scarlet, lined with gold-coloured silk.
M.Sc. - -	Hood orange, lined with white.
B.Sc. - -	Hood black, lined with white.

UNIVERSITY PROFESSORS.

G. Matthri, <i>Zoology.</i>	M. M. Shafi, <i>Classical Arabic.</i>
S. R. Kashyap, <i>Botany.</i>	A. C. Woolner, <i>Sanskrit.</i>

Most of the teaching work of this University is done by Professors of Affiliated Colleges.

Post-Graduate Courses.—M.A. and M.Sc. Courses in the following subjects: English, Arabic, Sanskrit, Persian, Mathematics, History, Philosophy, Economics, Physics, Chemistry, Zoology and Comparative Anatomy, Botany, Geology and Physiology.

Library.—There is a Library comprising about 39,313 volumes maintained by the University. *Librarian* : A. C. Woolner, M.A. *Officiating Librarian* : Mukand Lal.

AFFILIATED INSTITUTIONS.

Oriental College, Lahore.	Murray College, Sialkot.
Government College, Lahore.	Islamia College, Peshawar.
Forman Christian College, Lahore.	Hindu College, Delhi.
D.A.V. College, Lahore.	Kinnaird College, Lahore.
St. Stephen's College, Delhi.	Sadiq-Egerton College, Bahawalpur.
Islamia College, Lahore.	Randhir College, Kapurthala.
Khalsa College, Amritsar.	G. N. Khalsa College, Gujranwala.
Mohindra College, Patiala.	Lady Hardinge Medical College, Delhi.
Dyal Singh College, Lahore.	Ranjnas College, Delhi.
Sanatan Dharam College, Lahore.	D.A.V. College, Jullunder.
Gordon College, Rawalpindi.	Central Training College, Lahore.
Prince of Wales College, Jammu.	The Law College, Lahore.
Sri Paratap College, Srinagar, Kashmir.	The Medical College, Lahore.
Edwardes' College, Peshawar.	Agricultural College, Lyallpur.

KING EDWARD MEDICAL COLLEGE, Lahore, Punjab. (1860.)

Affiliated to the University of the Punjab, Lahore.

Students : 345.

OFFICIALS.

Principal.—Lieut.-Col. D. W. Sutherland, C.I.E., M.D., C.M., M.R.C.P., F.R.S., I.M.S.

PROFESSORS.

Lieut.-Col. D. W. Sutherland, *Medicine*.
 Lieut.-Col. D. M. Davidson, *Forensic Medicine*.
 Lieut.-Col. E. V. Hugo, *Surgery*.
 Capt. J. J. Harper Nelson, *Materia Medica*.
 Brevet-Col. R. Heard, *Midwifery*.
 Lieut.-Col. D. M. Davidson, *Midwifery*.
 Lieut.-Col. H. Ainsworth, *Diseases of Eye, Ear, and Throat*.
 Lieut.-Col. S. Browning Smith, *Hygiene*.

Lieut.-Col. H. M. Mackenzie, *Hygiene*.
 Major W. H. C. Forster, *Pathology*.
 Major H. H. Broome, *Anatomy*.
 Capt. R. H. Bott, *Operative Surgery*.
 Dr. C. C. Caleb, *Physiology*.
 Hon. Capt. J. F. Fleming, *Mental Diseases*.
 18 Assistant Surgeons, 5 Clinical Assistants, 3 Lecturers, 10 Demonstrators.

GOVERNMENT COLLEGE, Lahore. (1864.)

Affiliated to the University of the Punjab, Lahore.

Students : 580.

OFFICIALS.

Principal.—A. S. Hemmy, B.A., M.Sc.

PROFESSORS.

Professors :

A. S. Hemmy, *Physics*.
 F. R. Tomlinson, *English*.
 H. L. O. Garrett, *History*.
 L. T. Watkins, *English*.
 H. B. Dunningcliff, *Chemistry*.
 (Vacant), *Zoology*.
 G. D. Sondhi, *Economics*.
 G. S. Chowla, *Mathematics*.
 S. R. Kashyap, *Botany*.
 G. Singh, *Sanskrit*.
 C. Anand, *Physics*.
 Md. Sadr-ud-din, *Arabic*.
 Fazl-i-Haqq, *Persian*.

Assistant Professors :

A. H. Khan, *English and History*.
 B. Lal, *Biology*.
 M. Lal, *Mathematics*.
 M. Said, *English*.
 A. Rum, *English*.
 B. Manmohan, *English and Economics*.
 H. Rai, *Chemistry*.
 L. Ghose, *Biology*.
 P. Singh, *Chemistry*.
 S. K. Kapur, *Mathematics*.
 Sada Nand, *Physics*.

FORMAN CHRISTIAN COLLEGE, The Mall, Lahore, Punjab. (1866.)

Affiliated with the University of the Punjab, Lahore.

OFFICIALS.

Principal.—The Rev. E. D. Lucas, D.D., M.A.

Vice-Principal.—The Rev. C. H. Rice, B.A.

PROFESSORS.

Professors :

Rev. E. D. Lucas, *Economics*.
 Rev. C. H. Rice, *Philosophy*.
 Rev. R. Wilson, *History*.
 P. C. Speers, *Chemistry*.
 J. M. Benade, *Physics*.
 Rev. J. B. Weir, *English*.
 R. Siraj-ud-Din, *History and Philosophy*.
 S. N. D. Gupta, *Mathematics*.
 P. Samuels-Lall, "
 D. Sivaprakasum, *English*.

Professors—Continued :

L. I. Das, *History*.
 L. M. C. Sethi, *Biology*.
 A. B. Yajnik, *Chemistry*.
 H. S. Bennett, *Industrial Chemistry*.

Assistant Professors :

P. M. Lal, *English*.
 Barakat Ullah, "
 L. S. Lal, *Chemistry*.
 L. M. C. Suri, *Mathematics*.
 I. D. Parshad, *Economics*.
 6 Lecturers.

Post-Graduate Courses.—Courses leading to the degree of M.A. in English, History, Mathematics, Economics, and to the M.Sc. in Chemistry.

A new course leading to the degree of M.A. in Persian is to be initiated this autumn.

Museum.—Small Archeological Museum.

Library.—Library of 10,300 volumes. *Librarian* : I. Durga Parshad, M.A.

THE LAW COLLEGE, Lahore, Punjab, India. (1870.)

Affiliated to the University of the Punjab, Lahore.

Students : 500.

Principal.—Kanwar Sain, M.A., Barrister-at-Law.

1 Lecturer, 6 Readers.

Library.—Law College Library. *Librarian* : Missar Radhakishan.

ORIENTAL COLLEGE, Lahore, Punjab. (1870.)

Affiliated to the University of the Punjab, Lahore.

Students : 61.

OFFICIALS.

Principal.—A. C. Woolner, M.A.

4 Pandits, 2 Maulvis, 2 Munshis, 2 Bhaiis, 3 Teachers.

KINNAIRD COLLEGE FOR WOMEN, Lahore, Punjab, India. (1879.)

Affiliated to the University of the Punjab.

OFFICIALS.

Principal.—Miss Annear, B.A.

PROFESSORS.

Annear (Miss), *English*.
M. Das (Miss), *History*.
A. Shah (Miss), *Philosophy*.
S. Lal, *Mathematics*.

M. A. Karim, *Urdu*.
L. B. Das, *Hindi*.
S. C. Bose, *Bengali*.

CENTRAL TRAINING COLLEGE, Lahore, Punjab. (1881.)

Affiliated to the University of the Punjab, Lahore.

Students : 200.

OFFICIALS.

Principal.—H. T. Knowlton, I.E.S.

Vice-Principal.—J. E. Parkinson, M.A., I.E.S.

13 Masters.

DAYANAND ANGLO-VEDIC COLLEGE, Lahore, Punjab. (1886.)

Affiliated to the University of the Punjab, Lahore.

OFFICIALS.

Principal.—Lala Sain Das, M.A., B.Sc.

Librarian.—S. Bishen Singh.

Head Clerk.—K. Chand.

PROFESSORS.

Professors :

L. S. Das, *Chemistry*.
I. S. R. Janiwala, *Philosophy*.
Mahajat Sahai
Gowardhen Lah Dutt, *Physics*.
L. H. N. Das, *Biology*.
K. C. Nag, *Economics*.
S. K. Dutt, *History*.
L. A. Nath Bali, *History*.
Pandit G. Rai, *Sanskrit*.
Pandit B. Dutt, *Theology*.
Maulvi M. Bakhsh, *Persian*.
L. D. Dayal, *Mathematics*.

Professors—Continued :

S. C. Bhattacharya, *English*.

Assistant Professors :

S. C. Gangali, *English*.
L. M. G. Singh
M. N. Zutshi
L. B. D. Bahl
Amalak Rau Sawhny, *English*.
Babu K. M. Ghosh, *Mathematics*.
L. H. Chand, *Mathematics*.
L. M. Chand, *Chemistry*.
Pt. R. Ram, *Sanskrit*.

THE ISLAMIA COLLEGE, Railway Road, Lahore. (1892.)

Affiliated to the University of the Punjab, Lahore.

Students : 500.

OFFICIALS.

Principal.—Henry Martin, M.A.

PROFESSORS.

H. Martin, <i>English</i> .	A. Hamid, <i>Philosophy</i> .
P. E. Richards ,,	C. Din, <i>Physics</i> .
Sh. M. A. Ghani, <i>English</i> .	K. Rai, <i>Biology</i> .
G. R. Shauq ,,	M. Din, <i>Chemistry</i> .
M. H. Ali, <i>Mathematics</i> .	Maulvi A. Ali, <i>Arabic and Theology</i> .
D. Muhammad ,,	Maulvi A. Ali ,,
M. B. Ahmad, <i>History</i> .	Maulvi M. U. Khan, <i>Persian</i> .
S. A. Qadir ,,	

Post-Graduate Courses.—Leading to M.A. in Arabic, M.A. in Persian.

Library.—A College Library of about 5,000 volumes.

DYAL SINGH COLLEGE, Lahore, Punjab. (1910.)

Affiliated to the University of the Punjab, Lahore.

Students : 600.

OFFICIALS.

Principal.—S. C. Roy, M.A.

PROFESSORS.

S. C. Roy, <i>Philosophy and Religion</i> .	I. C. Nanda, <i>English</i> .
A. N. Bhasin ,,	B. L. Anand ,,
Hem Raj, <i>Mathematics</i> .	C. Lal, <i>History and Economics</i> .
Mul Raj ,,	K. M. Maitra, <i>Persian</i> .
A. C. Rakshit, <i>English and History</i> .	V. N. Sahai, <i>Sanskrit</i> .
B. Singh, <i>English</i> .	M. Lal, <i>Physics</i> .
P. C. Sen ,,	G. Singh, <i>Chemistry</i> .
S. R. Grover ,,	G. R. Kohly, <i>Biology</i> .

SANATAN DHARAM COLLEGE, Lahore, Punjab. (1916.)

Affiliated to the University of the Punjab, Lahore.

Students : 240.

OFFICIALS.

Principal.—Raghubar Dayal Shastri, M.A., M.O.L.

Vice-Principal.—Gulshan Rai, B.A., M.B.

PROFESSORS.

R. D. Shastri, <i>Sanskrit</i> .	P. L. Mathur, <i>Philosophy</i> .
P. N. Mukherjee, <i>English</i> .	G. Rai, <i>History</i> .
S. D. Midha ,,	A. N. Ganguly, <i>Mathematics</i> .
R. N. Kalyan ,,	R. Das ,,
B. Narain, <i>Economics and History</i> .	M. Khan-ud-din, <i>Persian</i> .
Pandit G. Datta, <i>Sanskrit</i> .	

LAMPETER.

S. DAVID'S COLLEGE, Lampeter. (1822.)

Students who have received three years at S. David's College and have obtained Honours in the Final Examination of the Degree Course, are received as affiliated students at Oxford and Cambridge, where they are allowed to graduate after two years' residence only.

Terms : Three per year.

Students : 110.

OFFICIALS.

Visitor.—The Rt. Rev. the Lord Bishop of S. Davids.
Principal.—Rev. G. C. Joyee, D.D.
Bursar.—A. W. Scott, M.A.

Degrees conferred :

<i>Degrees.</i>	<i>Hoods.</i>
B.D. - -	Black silk, lined with puce, and edged with white silk.
B.A. - -	Black, lined with white fur with black spots.

PROFESSORS.

Rev. G. C. Joyee, <i>Theology and Greek.</i> A. W. Scott, <i>Science.</i> Rev. G. W. Wade, <i>Latin.</i> H. Walker, <i>English and Philosophy.</i>	Rev. E. Tyrrell-Green, <i>Hebrew and Theology.</i> Rev. R. H. Richards, <i>Welsh.</i> Rev. W. H. Harris, <i>Lecturer in Theology.</i>
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Post-Graduate Courses.—Those who have taken the B.A. degree at S. David's College can proceed to the B.D. degree, on condition that they reside for a 10th term, and pass the requisite examination, provided that they have been in Holy Orders for a period not less than five years.

Library.—College Library. *Librarian* : Rev. G. W. Wade, D.D.

LARAMIE (Wyoming).

THE UNIVERSITY OF WYOMING, Laramie, Wyoming. (1886.)

Terms : Three terms and Summer School.

Students : 646.

Budget : \$343,152.40.

OFFICIALS.

President of Board of Trustees.—A. B. Hamilton, M.D.
Vice-President of the Board of Trustees.—W. C. Deming, B.C., M.A.
Treasurer.—C. D. Spalding.
Secretary.—F. S. Burrage.
President of University.—Aven Nelson, Ph.D.
Dean of the College of Liberal Arts.—Justus F. Soule, M.A.
Dean of College of Agriculture.—A. D. Faville, M.S.
Dean of College of Education.—Julian E. Butterworth, Ph.D.

Degrees conferred.—B.A. (College of Liberal Arts), B.S. (College of Agriculture), B.S. (College of Engineering), B.A. (College of Education), B.Mus. (Division of Music), M.A., M.S.

PROFESSORS.

COLLEGE OF LIBERAL ARTS.

Professors :

H. C. Dale, *Political Science.*
 B. C. Daly, *Military Science and Tactics.*
 J. E. Downey, *Philosophy and Psychology.*
 G. R. Hebard (Miss), *Political Economy.*
 E. D. Hunton, *Commerce.*
 E. K. Kline, *Modern Languages.*
 H. D. Nasmith, *Voice.*
 R. B. Pease, *English.*
 J. F. Soule, *Latin and Greek.*
 L. A. White (Miss), *History.*

Associate Professors :

R. E. Berry, *Commerce.*
 C. F. McIntyre (Miss), *English.*

Assistant Professors :

A. C. Cross, *History.*
 R. L. Ruegnitz (Miss), *Music.*
 G. E. Ryan (Miss), *Teaching of English.*

COLLEGE OF ENGINEERING.

Professors :

A. E. Bellis, *Physics.*
 A. C. Boyle, jr., *Mining Engineering.*
 J. C. Fitterer, *Civil Engineering and Irrigation.*
 J. A. Hill, *Textile Industry.*
 E. G. Hoefler, *Mechanical and Electrical Engineering.*
 S. H. Knight, *Geology and Curator of Museum.*
 P. T. Miller, *Chemistry.*
 R. B. Moudy, *Chemistry.*

Professors—Continued :

C. B. Ridgaway, *Mathematics*.
C. E. Stromquist, *Mathematics*.

Associate Professor :

K. T. Steik, *Chemistry*.

Assistant Professor :

W. A. Hitchcock, *Civil Engineering*.

COLLEGE OF AGRICULTURE.

Professors :

L. R. Davies, *Teacher Training for Vocational Agriculture*.

A. D. Faville, *Animal Husbandry*.

E. H. Lehnert, *Veterinary Science*.

J. W. Scott, *Zoology and Parasitology*.

Associate Professor :

A. E. Vass, *Agronomy*.

Post-Graduate Courses.—The University of Wyoming offers a limited amount of graduate instruction. The graduate work is under the direction and control of the professors in charge of the respective departments, but must be approved by the Committee on Graduate Students.

Museums.—The University Museum. *Curator*: S. Howell Knight. The Rocky Mountain Herbarium. The Engineering Museum. The Agricultural Museum.

Library.—The University Library. *Librarian*: Miss Roba Davis. *Assistant Librarian*: Miss Doris Groene.

AFFILIATED INSTITUTIONS.

Iverson Memorial Hospital, Laramie, Wyo.

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director—A. D. Faville.

LA TRAPPE (Two Mountains County).

INSTITUT AGRICOLE D'OKA, La Trappe, Two Mountains Co. (1893.)

Terms: Two per year.

Students: 130 (Agricultural).

OFFICIALS.

President.—Right Rev. Dom Pacôme Gaboury, Abbot.

Dean.—Rev. Father Jean de la Croix, M.A.

Assistant Dean.—Rev. Father Athanase.

Bursar.—Rev. Father Humbert.

Secretary and Librarian.—Rev. Father Yves.

Degrees conferred.—B.S.A. Granted by Laval University at the end of the four years' course.

PROFESSORS.

M. I. J. A. Marsan, *Field Husbandry*.
M. H. Nagant, *Chemistry*.
Rev. Brot. Liguory (Secretary Quebec Farmers' Experimental Union).
M. A. Dauth, *Veterinary Science*.
R. F. Leopold, *Horticulture*.
M. N. Cossette, *Farm Machinery*.
M. R. Cossette, *Botany*.

Assistant Professors :

E. C. O'Roke, *Zoology and Parasitology*.

J. P. Poole, *Botany and Horticulture*.

C. V. Singleton, *Animal Husbandry*.

COLLEGE OF EDUCATION.

Professors :

R. Adsit (Miss), *Elementary Education*. [tion.

J. E. Butterworth, *Secondary Education*.

J. R. Coxen, *Industrial Education*.

H. L. Eby, *Rural Education*.

G. Gray (Miss), *Home Economics*.

Assistant Professors :

B. Chappell (Miss), *High School Education*.

E. H. Knight (Mrs.), *Home Economics*.

19 Instructors.

8 Lecturers.

Post-Graduate Courses in Horticulture, Poultry Husbandry, and Bee-keeping.

LAWRENCE (Kansas).

THE UNIVERSITY OF KANSAS, Lawrence, Kansas. (1864.)

Terms : Two semesters and a Summer Session of 10 weeks.*Students* : 3,916.*Budget* : The University owns equipment, buildings, and grounds of an estimated value of \$2,000,000. It receives in normal years about \$70,000 annually from fees and \$7,200 from the land fund. For the biennium of 1917-19 the state appropriated \$1,523,000, including \$225,000 for building.

OFFICIALS.

Chancellor.—Frank Strong, Ph.D.*Vice-President*.—W. L. Burdick, Ph.D.*Registrar*.—George O. Foster, A.B.*Dean of the Graduate School*.—Frank W. Blackmar, Ph.D.*Dean of the College of Liberal Arts and Sciences*.—Olin Temple, A.M.*Dean of the School of Engineering*.—Perley F. Walker, M.M.E.*Dean of the School of Law*.—James W. Green, A.M.*Dean of the School of Fine Arts*.—Harold L. Butler, A.B.*Dean of the School of Pharmacy*.—Lucius E. Sayre, Ph.M.*Dean of the School of Medicine*.—Samuel J. Crumbine, M.D.*Dean of the School of Education*.—Frederick J. Kelly, Ph.D.**Degrees conferred**.—A.B., A.M., B.S., B.S. (Eng.), B.S. (Med.), B.S. (Ed.), M.S., M.S. (Ed.), LL.B., Mus. Bae., Ph.D., C.E., M.E., A.E., E.E., B.P.

PROFESSORS.

COLLEGE OF LIBERAL ARTS.

Professors :A. M. Wilcox, *Greek Language and Literature*.F. W. Blackmar, *Sociology*.C. G. Dunlap, *English Literature*.O. Temple, *Philosophy*.E. M. Hopkins, *Rhetoric and English Language*.F. H. Hodder, *American History and Political Science*.A. T. Walker, *Latin Language and Literature*.E. Galloo, *Romance Languages and Literatures*.J. Naismith, *Physical Education*.E. H. Hollands, *Philosophy*.W. A. McKeever, *Child Welfare*.E. F. Engel, *German*.W. O. Hamilton, *Physical Education*.A. MacMurray, *Public Speaking*.F. R. Hamilton, *University Extension*.E. C. Sprague (Miss), *Home Economics*.H. Oleott, *Physical Education*.R. D. O'Leary, *English*.A. J. Boynton, *Economics*.H. C. Thurnau, *Germanic Languages and Literatures*.D. L. Patterson, *European History*.L. N. Flint, *Journalism*.C. A. Dykstra, *Political Science*.A. L. Owen, *Hispanic Languages*.**Associate Professors :**M. W. Sterling, *Greek*.H. Oliver (Miss), *Latin*.**Associate Professors—Continued :**S. L. Whitecomb, *Comparative Literature*.L. E. Sisson, *Rhetoric*.A. L. Corbin (Miss), *German*.H. O. Kruse, *German*.C. C. Crawford, *European History*.E. W. Murray, *Latin*.W. S. Johnson, *English Literature*.V. E. Helleberg, *Sociology*.E. N. Raymond, *Rhetoric*.M. Lynn (Miss), *English Literature*.E. N. Schwander (Miss), *Romance Languages*.W. W. Davis, *American History*.J. G. Brandt, *Greek*.B. F. Moore, *Political Science*.M. C. Elmer, *Sociology*.W. McG. Duffus, *Economics*.A. J. Goetz (Miss), *Physical Education*.**Assistant Professors :**A. M. Sturtevant, *German*.L. Gardner (Miss), *Rhetoric*.J. M. Burnham (Miss), *English*.F. E. Melvin, *Modern European History*.R. R. Morgan (Miss), *Rhetoric*.A. Stanton (Miss), *Romance Languages*.H. G. Jones (Miss), *German*.L. B. McCarty, *Physical Education*.G. Clark, *Physical Education*.J. Ise, *Economics*.S. O. Rice, *Journalism*.M. Gardner (Miss), *Romance Languages*.

Assistant Professor—Continued :

- H. M. Clarke (Miss), *Correspondence Study*.
 G. H. Derry, *Political Science*.
 M. Ferguson, *Economics and Commerce*.
 G. C. Loud, *Journalism*.
 R. G. Mahieu, *Romance Languages*.
 L. Battey (Miss), *Teaching of English*.
 H. B. Chubb, *Political Science*.
 W. W. Sullivan, *History*.
 E. C. Meguiar (Miss), *Home Economics*.

COLLEGE OF SCIENCE.**Professors :**

- E. H. S. Bailey, *Chemistry and Metallurgy*.
 E. Haworth, *Geology and Mineralogy*.
 W. C. Stevens, *Botany*.
 S. J. Hunter, *Entomology*.
 F. E. Kester, *Physics*.
 H. P. Cady, *Chemistry*.
 B. M. Allen, *Zoology*.
 F. B. Dains, *Chemistry*.
 J. N. Van der Vries, *Mathematics*.
 C. H. Ashton, *Mathematics*.
 W. S. Hunter, *Psychology*.
 C. F. Nelson, *Physiological Chemistry*.

Associate Professors :

- W. J. Baungartner, *Zoology*.
 H. C. Allen, *Chemistry*.
 U. G. Mitchell, *Mathematics*.
 F. C. Dockeray, *Psychology*.
 H. B. Hungerford, *Entomology*.
 E. B. Stouffer, *Mathematics*.
 G. W. Stratton, *Chemistry*.
 R. C. Moore, *Geology and Paleontology*.
 P. V. Faragher, *Chemistry*.

Assistant Professors :

- E. E. Stimpson, *Physics*.
 J. E. Todd, *Geology and Mineralogy*.
 C. C. Young, *Chemistry*.
 H. E. Jordan, *Mathematics*.
 W. R. B. Robertson, *Zoology*.
 T. T. Smith, *Physics*.
 W. S. Long, *Chemistry*.
 N. Nowlin (Miss), *Zoology*.
 G. M. Charles (Miss), *Botany*.
 W. L. Eikenberry, *Teaching of Biological Sciences*.
 F. W. Bruckmiller, *Chemistry*.
 J. J. Wheeler, *Mathematics*.
 S. Lefschetz, *Mathematics*.
 W. P. Haynes, *Geology, Mineralogy, and Petrology*.
 D. Alter, *Astronomy*.
 C. Estes, *Chemistry*.
 C. H. Watson, *Teaching of Physical Sciences*.
 M. A. Bills (Miss), *Psychology*.
 H. Mck. Elsey, *Chemistry*.
 E. Wertheim, *Chemistry*.
 C. E. Johnson, *Zoology*.

SCHOOLS OF MEDICINE AND PHARMACY.**Professors :**

- L. E. Sayre, *Pharmacy and Materia Medica*.
 I. H. Hyde (Miss), *Physiology*.
 M. T. Sudler, *Surgery*.
 L. D. Havenhill, *Pharmacy*.
 S. J. Crumbine, *Preventive Medicine*.
 D. C. Guffey, *Obstetrics and Gynecology*.
 L. S. Milne, *Medicine*.
 R. H. Major, *Bacteriology and Pathology*.
 G. E. Coghill, *Anatomy*.
 O. O. Stoland, *Physiology*.
 N. P. Sherwood, *Bacteriology*.
 J. Block, *Genito-Urinary Surgery*.
 S. S. Glasscock, *Psychiatry*.
 I. J. Wolf, *Internal Medicine*.
 F. E. Murphy, *Clinical Medicine*.
 F. L. Uhls, *Psychiatry*.
 A. L. Skoog, *Neurology*.
 E. J. Curran, *Ophthalmology*.
 P. T. Bohan, *Clinical Medicine*.
 G. M. Gray, *Clinical Surgery*.
 W. L. McBride, *Dermatology*.
 R. L. Sutton, *Dermatology*.

Associate Professors :

- A. E. Hertzler, *Surgery*.
 F. B. Sherbon (Miss), *Home Nursing*.
 R. McE. Schauffler, *Orthopedic Surgery*.
 W. F. Kuhn, *Psychiatry*.
 W. K. Trimble, *Clinical Pathology*.
 O. J. Cunningham, *Surgery*.
 R. D. Irland, *Obstetrics and Gynecology*.
 T. D. Tuttle, *Preventive Medicine*.

Assistant Professors :

- C. M. Sterling, *Pharmacognosy*.
 G. N. Watson, *Pharmacy*.
 J. E. Welker, *Physiology*.
 C. B. Francisco, *Orthopedic Surgery*.
 C. R. Black, *Pathology*.
 J. G. Hayden, *Surgery*.
 E. P. Hall, *Otorhinolaryngology*.
 H. F. Vanorden, *Gynecology and Obstetrics*.
 C. C. Dennie, *Dermatology*.
 T. G. Orr, *Surgery*.
 S. E. Roberts, *Otorhinolaryngology*.

SCHOOL OF ENGINEERING.**Professors :**

- P. F. Walker, *Industrial Engineering*.
 G. C. Shaad, *Electrical Engineering*.
 H. A. Rice, *Mechanics and Structural Engineering*.
 C. C. Williams, *Railway Engineering*.
 A. C. Terrill, *Mining and Ore Dressing*.
 F. H. Sibley, *Mechanical Engineering*.
 G. J. Hood, *Engineering Drawing*.

Associate Professors :

- M. E. Rice, *Physics and Electrical Engineering*.
 C. A. Haskins, *Sanitary Engineering*.
 W. C. McNow, *Civil Engineering*.
 A. H. Sluss, *Mechanical Engineering*.
 B. L. Wolfe, *Mining*.
 F. E. Johnson, *Electrical Engineering*.

Assistant Professors :

- F. E. Jones, *Pattern Making and Founding*.
 J. D. Garver, *Mechanical Engineering*.
 F. L. Brown, *Mechanics*.
 H. A. Roberts, *Civil Engineering*.
 J. O. Jones, *Hydraulics*.
 R. L. Grider, *Mining*.
 F. M. Veatch, *Sanitary Engineering*.
 W. A. Burton, *Sanitary Engineering*.

SCHOOL OF LAW.**Professors :**

- J. W. Green, *Law*.
 W. E. Higgins ,,
 H. W. Humble ,,
 E. D. Osborn ,,

Associate Professor :

- R. F. Rice, *Law*.

SCHOOL OF FINE ARTS.**Professors :**

- C. A. Preyer, *Piano and Composition*.
 W. A. Griffith, *Drawing and Painting*.

Professors—Continued :

- C. S. Skilton, *Organ, Theory of Music and Music History*.
 G. Goldsmith, *Architecture*.
 W. B. Downing, *Voice and Public School Music*.
 H. L. Butler, *Voice*.
 A. Nevin, *Ensemble and Music Extension*.
 W. M. Hekking, *Drawing and Painting*.
 F. E. Kendric, *Violin and Orchestral Ensemble*.
 W. V. Cahill, *Drawing and Painting*.

Assistant Professors :

- H. Greisinger (Miss), *Piano*.
 A. L. Sweeney (Miss), *Piano*.
 J. R. Frazier, *Drawing and Painting*.
 P. Emley-Elliott (Miss) ,,

SCHOOL OF EDUCATION.**Professors :**

- A. S. Olin, *Education*.
 W. H. Johnson, *Education*.
 R. A. Schwegler, *Education*.
 F. J. Kelly, *Education*.
 R. A. Kent, *Education*.

Associate Professors :

- H. W. Nutt, *Education*.
 R. E. Carter, *Education*.
 83 Instructors, 23 Assistant Instructors.

Post-Graduate Courses.—The following departments offer graduate work in the University. In the majority of them the facilities are adequate for thorough preparation for the doctor's degree, and in all of them the facilities are excellent for work leading to the master's degree. All the courses named are well equipped for graduate instruction. Laboratories and libraries are ample for this purpose. Especial opportunity is given for research and original investigation.

Anatomy, Ancient Languages, Bacteriology, Bacteriology and Pathology, Botany, Chemistry, Economics and Commerce, Education, Engineering, Engineering Mechanics, Civil Engineering, Electrical Engineering, Mining Engineering, English Language and Literature, Entomology, Fine Arts, Geology and Mineralogy, Germanic Languages and Literature, Hispanic Languages and Literature, History and Political Science, Home Economics, Journalism, Law, Mathematics, Pharmaceutical and Biological Chemistry, Philosophy and Psychology, Physics and Astronomy, Physiology, Romance Languages and Literatures, Sociology, Zoology.

Museums.—

The scientific collections belonging to the University are grouped according to the teaching department in charge.

The botanical collection contains 10,000 identified and labelled specimens.

The entomological collections comprise about 26,000 species and 300,000 specimens.

Geology is represented by extensive collections of specimens in economic, petrographic, and mineralogical groups.

In paleobotany and paleontology the collection is one of the most complete in America.

The zoological collections are rich and varied.

The classical museum contains a collection of casts of Greek and Roman sculpture, facsimile reproductions of objects of art and utility, original coins and photographs.

Libraries.—The Libraries of the University contain 125,212 volumes and some 44,000 pamphlets. The periodical room receives 1,185 periodicals and publications

of learned societies, and 121 newspapers published in Kansas. The departments of Germanic Languages, Romance Languages, Latin, English, Education, American and European History, Sociology, and Economics have special reading-rooms in Spooner Library.

Nine Departmental Libraries are housed in the buildings used by their respective departments or schools, each in charge of an assistant librarian.

The Library of the Kansas Academy of Science, in charge of the secretary of the Academy, is housed in Fraser Hall.

LEEDS.

THE UNIVERSITY OF LEEDS.

Site:

Arts: Science, and Technology, College Road, Leeds.
 Medicine: School of Medicine, Thoresby Place, Leeds.
 Agriculture: Manor Farm, Garforth, near Leeds.

Date of Foundation:

1831, Foundation of the Leeds School of Medicine.
 1874, Foundation of the Yorkshire College of Science.
 1877, Foundation of a Faculty of Arts in the Yorkshire College.
 1878, Incorporation of the College under the Companies' Acts, with the name "The Yorkshire College."
 1884, Union of the Leeds School of Medicine with the Yorkshire College.
 1887, Admission of the Yorkshire College as a constituent college of the Victoria University.
 1904, Charter of the University of Leeds.

Terms: Three per year.

Students (1917-18): 758.

Budget (1917-18):

Income (including Fees, £11,102, and Government and County Council Grants, £44,550)	£69,673
Expenditure	69,167

Capital Funds, £436,990, of which £316,208 has been spent in land, buildings, and equipment.

OFFICIALS.

Chancellor.—His Grace the Duke of Devonshire, K.G., G.C.M.G., G.C.V.O., LL.D.
Pro-Chancellor.—A. Greenhow Lupton, LL.D.
Vice-Chancellor.—Sir Michael E. Sadler, K.C.S.I., C.B., LL.D., Litt.D.
Pro-Vice-Chancellor.—Prof. Charles M. Gillespie, M.A.
Treasurer.—The Hon. Rupert E. Beckett.
Accountant.—George R. Brench.
Clerk to the Senate.—Fred T. Baines, B.A.
Secretary.—Archibald E. Wheeler.

Degrees conferred.—B.A., B.Com., B.Sc., LL.B., M.B., Ch.B., B.Ch.D., M.A., M.Sc., LL.M., M.Ch., M.Ch.D., Ph.D., Litt.D., LL.D., D.Sc., M.D.

Hoods.—All hoods are to be of a green shade, combined with black, white, scarlet, or with one another, to produce the variations required for the several degrees, namely:

<i>Degrees.</i>	<i>Hoods.</i>
B.A.	Self-coloured hood of dark green shade.
B.Com.	Light green hood, lined with dark green.
B.Sc.	Self-coloured hood of middle green shade.
M.B. and Ch.B.	Hood of dark green, lined with light green.
LL.B.	Self-coloured hood of light green shade.
B.Ch.D.	Hood of dark green, lined with middle green.
M.A.	Dark green hood, with white lining.
M.Sc.	Middle green hood, with white lining.
LL.M.	Light green hood, with white lining.
M.Ch.	Dark green hood, edged with light green, and lined with white.
M.Ch.D.	Dark green hood, edged with middle green, and lined with white.

All Bachelors' hoods are to be lined, and all Bachelors' and Masters' hoods are to be of the single or Oxford pattern.

The Doctors' gown is to be of scarlet, with facings and sleeve linings of the shade of green distinctive of his faculty. The hood is to be of scarlet, lined with the distinctive shade or shades of green.

PROFESSORS.

FACULTY OF ARTS

(Including Commerce and Laws).

- P. Barbier fils, *French*.
 B. M. Connal, *Latin*.
 J. H. Jones, *Economics*.
 C. M. Gillespie, *Philosophy*.
 G. S. Gordon, *English Language and Literature*.
 A. J. Grant, *History*.
 J. D. I. Hughes, *Law*.
 W. R. Roberts, *Greek*.
 J. Strong, *Education*.
 30 Assistants.

FACULTY OF SCIENCE.

- J. B. Cohen, *Organic Chemistry*.
 W. Garstang, *Zoology*.
 P. F. Kendall, *Geology*.
 W. P. Milne, *Mathematics*.
 J. H. Priestley, *Botany*.
 A. Smithells, *Chemistry*.
 R. Whiddington, *Physics*.
 24 Assistants.

FACULTY OF TECHNOLOGY.

- A. F. Barker, *Textile Industries*.

Post-Graduate Courses by arrangement.

Museums.—There are Museums in connection with most of the Scientific, Technological, and Medical Departments.

Libraries.—

Leeds University Library. *Librarian*: R. Ofor, M.A.

Leeds School of Medicine Library. *Honorary Librarian*: Dr. J. B. Hellier.

Also Departmental Libraries.

AFFILIATED INSTITUTIONS.

College of the Resurrection, Mirfield.

The Technical College, Huddersfield.

Rawdon College, near Leeds.

LEHIGH UNIVERSITY. *See* BETHLEHEM.

LELAND STANFORD JUNIOR UNIVERSITY. *See* STANFORD UNIVERSITY.

LENNOXVILLE (Quebec).

UNIVERSITY OF BISHOP'S COLLEGE. No particulars received.

LEXINGTON (Kentucky).

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director—T. P. Cooper.

LICK OBSERVATORY. *See* MOUNT HAMILTON.

Faculty of Technology—*Continued*:

- J. W. Cobb, *Fuel Industries with Metallurgy*.
 J. Goodman, *Engineering*.
 E. L. Hummel, *Mining*.
 D. McCandlish, *Leather Industries*.
 A. G. Perkin, *Colour Chemistry and*
 R. S. Seton, *Agriculture*. [*Dyeing*.
 54 Assistants.

FACULTY OF MEDICINE

(Including Dentistry).

- A. G. Barrs, *Clinical Medicine*.
 J. S. Bolton, *Mental Diseases*.
 E. O. Croft, *Obstetrics and Gynecology*.
 F. W. Eurich, *Forensic Medicine*.
 T. W. Griffith, *Medicine*.
 J. K. Jamieson, *Anatomy*.
 B. G. A. Moynihan, *Clinical Surgery*.
 H. S. Raper, *Physiology and Bio-Chemistry*.
 M. J. Stewart, *Pathology and Bacteriology*.
 23 Assistants, 8 Clinical Lecturers.
 In the School of Dentistry, 5 Lecturers
 and 10 Clinical Lecturers.

LINCOLN (Nebraska).

THE UNIVERSITY OF NEBRASKA, Lincoln, Nebraska. (1869.)

Terms : Three per year.*Students* : 5,617.*Budget* : Total resources for the school year 1919-20, \$2,230,390.00.

OFFICIALS.

Chancellor.—S. Avery.*Secretary*.—J. S. Dales.*Provost*.—James T. Lees.*Registrar*.—Florence I. McGahey.*Superintendent of Construction*.—C. E. Chowins.*Executive Dean*.—C. C. Engberg.*Dean of Women*.—Amanda H. Heppner.*Director of University Extension*.—A. A. Reed.

Degrees conferred.—B.A., B.S., B.F.A., B.S. in H.E., B.S.A., B.S. in A.E., B.S. in M.E., B.S. in C.E., B.S. in E.E., LL.B., D.M., Ph.G., Ph.C., B.S. in Business, D.D.S., M.A., M.S., Ph.D., M.E., A.E., C.E., E.E., J.D., and occasionally honorary degrees.

PROFESSORS.

COLLEGE OF ENGINEERING.

O. V. P. Stout, *Dean*.**Professors :**L. W. Chase, *Agricultural Engineering*.

E. E. Brackett " "

O. W. Sjogren " "

G. R. Chatburn, *Applied Mechanics*.

P. K. Slaymaker " "

O. V. P. Stout, *Civil Engineering*.L. W. Chase, *Mechanical Engineering*.W. L. De Banfre, *Mechanical Engineering*.O. J. Ferguson, *Electrical Engineering*.**Associate Professors :**A. A. Baer, *Agricultural Engineering*.

C. W. Smith " "

I. D. Wood " "

C. E. Mickey, *Applied Mechanics*.J. W. Haney, *Mechanical Engineering*.V. L. Hollister, *Electrical Engineering*.**Assistant Professors :**R. Carpenter, *Agricultural Engineering*.A. A. Luebs, *Mechanical Engineering*.E. O. Edison, *Electrical Engineering*.A. E. Bunting, *Mechanical Engineering*.

5 Instructors.

COLLEGE OF BUSINESS ADMINISTRATION.

J. E. Le Rossignol, *Dean*.**Professors :**

J. E. Le Rossignol. G. O. Virtue.

O. R. Martin.

Associate Professors :

J. E. Kirshman. P. W. Ivey.

Assistant Professors :

T. T. Bullock. D. F. Cole.

M. England (Miss).

COLLEGE OF DENTISTRY.

W. C. Davis, *Dean*.**Professors :**G. A. Grubb, *Dental Science and Literature*.J. I. Davis, *Prosthetic Dentistry*.**Associate Professor :**P. R. James, *Operative and Clinical Dentistry*.**Assistant Professors :**C. A. Nelson, *Operative and Clinical Dentistry*.B. C. Wildman, *Prosthetic Dentistry*.C. E. Brown, *Orthodontia*.

15 Instructors.

COLLEGE OF PHARMACY.

R. A. Lyman, *Dean*.**Professor :**

R. A. Lyman.

Assistant Professor :

E. Day (Miss).

COLLEGE OF LAW.

W. G. Hastings, *Dean*.**Professors :**

W. G. Hastings. E. Maxey.

C. A. Robbins.

Assistant Professors :

J. H. Broady. G. N. Foster.

J. J. Ledwith. R. P. Wilson.

COLLEGE OF MEDICINE.

I. S. Cutter, *Dean*.**Professors :**C. W. M. Poynter, *Anatomy*.W. A. Willard, *Anatomy*.A. Schalek, *Dermatology and Syphilology*.

Professors—Continued :

- C. W. Pollard, *Gynecology and Obstetrics.*
 W. O. Bridges, *Internal Medicine.*
 W. F. Milroy " "
 L. Crummer " "
 F. S. Owen, *Laryngology and Rhinology.*
 C. A. Young, *Nervous and Mental Discases.*
 H. Gifford, *Ophthalmology and Otology.*
 J. P. Lord, *Orthopedic Surgery.*
 H. M. McClanahan, *Pediatrics.*
 H. E. Eggers, *Pathology and Bacteriology.*
 A. F. Jonas, *Surgery.*
 B. B. Davis " "
 A. W. Peters, *Bio-Chemistry.*
 A. E. Guenther, *Physiology.*
 M. I. Smith, *Pharmacology.*

Associate Professor :

- A. C. Stokes, *Surgery.*

Assistant Professors :

- R. W. Bliss, *Internal Medicine.*
 J. M. Bannister, *Internal Medicine.*
 E. L. Bridges, *Internal Medicine.*
 J. M. Patton, *Ophthalmology and Otology.*
 B. W. Christie, *Pediatrics.*
 A. A. Johnson, *Pathology and Bacteriology.*
 J. T. Meyers, *Pathology and Bacteriology.*
 E. T. Manning, *Pathology and Bacteriology.*
 C. C. Morrison, *Surgery.*
 R. R. Hollister " "
 J. S. Goetz, *Therapeutics.*
 C. R. Kennedy, *Urology.*
 21 Instructors.

COLLEGE OF AGRICULTURE.

E. A. Burnett, *Dean.*

Professors :

- H. E. Bradford, *Agricultural Education.*
 W. H. Brokaw, *Agricultural Extension.*
 R. F. Holland " "
 L. E. Frisbie " "
 L. T. Skinner " "
 B. C. Danley " "
 K. F. Warner " "
 D. H. Propps " "
 I. D. Wood " "
 E. H. Hoppert " "
 H. O. Werner " "
 H. M. Wells " "
 P. K. Whelpton " "
 W. W. Burr, *Agronomy.*
 F. D. Keim " "
 T. A. Kiesselbach, *Agronomy.*
 H. J. Gramlich, *Animal Husbandry.*
 F. E. Musschl, *Poultry* " "
 L. Van Es, *Animal Pathology.*
 J. H. Gain " "
 H. M. Martin " "

Professors—Continued :

- J. H. Frandsen, *Dairy Husbandry.*
 L. Bruner, *Entomology.*
 M. H. Swenk, *Entomology.*
 R. F. Howard, *Horticulture.*
 E. M. Wileox, *Plant Pathology and Physiology.*
 H. G. Filley, *Rural Economics.*
 J. O. Rankin " "

Associate Professors :

- C. A. Lewis, *Agricultural Extension.*
 J. L. Gilmore " "
 H. J. Young " "
 G. A. Reed " "
 J. F. Lawrence " "
 — Gaines " "
 M. Rokahr (Miss) " "
 F. Dunn (Miss) " "
 M. E. Brown (Miss) " "
 C. D. Kinsman " "
 C. E. Mickel " "
 G. R. Davis " "
 E. Ord (Miss) " "
 — McMurry " "
 E. Gollmar (Miss) " "
 E. Greene (Miss) " "
 R. W. Carpenter " "
 F. L. Taylor " "
 P. L. Gaddis, *Agronomy.*
 W. J. Loeffel, *Animal Husbandry.*
 J. W. Harris (Miss), *Home Economics.*
 G. W. Hood, *Horticulture.*
 E. H. Hoppert, *Horticulture.*

Assistant Professors :

- T. H. Godding, *Agronomy.*
 J. C. Russel " "
 E. R. Davis " "
 E. L. Jenkins, *Animal Husbandry.*
 H. B. Pier " "
 K. F. Warner " "
 E. H. Krause, *Dairy Husbandry.*
 B. H. Thompson " "
 R. W. Dawson, *Entomology.*
 C. E. Mickel " "
 E. Anderson (Miss), *Plant Pathology and Physiology.*
 C. H. Heard, *Rural Economics.*
 A. W. Medlar " "
 E. L. Rhoades " "
 10 Instructors.

COLLEGE OF ARTS AND SCIENCES.

P. M. Buck, *Dean.*

TEACHERS' COLLEGE.

C. Fordyce, *Dean.*

Professors :

- H. W. Caldwell, *American History.*
 G. D. Swezey, *Astronomy.*
 G. A. Loveland " "
 H. H. Waite, *Bacteriology.*
 R. J. Pool, *Botany.*
 J. E. Weaver, *Botany.*

Professors—Continued :

- F. W. Upson, *Chemistry*.
 H. G. Deining, "
 C. Fordyce, *Education*.
 H. Brownell, "
 A. A. Reed, "
 C. W. Taylor, "
 Lida B. Earhart, *Elementary Education*.
 G. Jones, *English History*.
 L. W. Sherman, *English*.
 F. A. Stuff, "
 L. Pound (Miss), "
 F. M. Fling, *European History*.
 W. F. Dann, *Art History and Criticism*.
 P. H. Grumann, *Fine Arts*.
 N. A. Bengtson, *Geography*.
 E. H. Barbour, *Geology*.
 E. F. Schramm, "
 L. Fossler, *Modern Languages*.
 J. Warshaw, " "
 H. H. Vaughan, " "
 J. T. Lees, *Ancient Languages*.
 A. L. Candy, *Mathematics*.
 W. C. Brenke, "
 C. C. Engberg, "
 W. F. Morrison, *Military Science*.
 H. B. Alexander, *Philosophy and Psychology*.
 W. Hyde (Miss), *Philosophy and Psychology*.
 R. C. Bentley, *Philosophy*.
 R. G. Clapp, *Physical Education*.
 J. E. Almy, *Physics*.
 B. E. Moore, "
Physiology (see College of Pharmacy).
 G. E. Howard, *Political Science and Sociology*.
 L. E. Aylsworth, *Political Science and Sociology*.
 H. Webster, *Political Science and Sociology*.

Professors—Continued :

- H. Williams, *Political Science and*
 P. M. Buck, *English*. [*Sociology*.]
 M. M. Fogg, "
 P. H. Frye, "
 S. B. Gass, "
 G. E. Barber, *Ancient Languages*.
 C. Conklin (Miss), *Modern Languages*.
 R. H. Wolcott, *Zoology*.
 F. D. Barker, "
 D. D. Whitney, "

Associate Professors :

- J. A. Rice, *Ancient Languages*.
 E. Walker, *Botany*.
 L. Walker, "
 D. J. Brown, *Chemistry*.
 J. W. Calvin, "
 R. D. Scott, *English*.
 L. Pfeiffer (Miss), *European History*.
 A. Howell (Miss), *Fine Arts*.
 E. Webster (Miss), *Geology*.
 M. G. Gaba, *Mathematics*.
 A. Clapp (Mrs.), *Physical Education*.
 J. P. Senning, *Political Science and Sociology*.
 E. Reese (Miss), *Modern Languages*.
 F. W. Sanford, *Ancient Languages*.

Assistant Professors :

- T. J. Fitzpatrick, *Botany*.
 C. J. Frankforter, *Chemistry*.
 B. C. Hendricks, "
 R. E. Cochran, *American History*.
 B. C. Grant, *Fine Arts*.
 L. Mundy (Miss), *Fine Arts*.
 C. Barbour (Miss), *Geology*.
 A. Babbitt, *Mathematics*.
 L. Runge (Miss), "
 M. McPhee (Miss), *Rhetoric*.
 M. Weseen, *Rhetoric*.
 J. E. A. Alexis, *Modern Languages*.
 22 Instructors.

Graduate College.—Dean: L. A. Sherman. Provides courses in nearly all the University Departments.

Museum.—Geological Museum. Curator: E. H. Barbour.

Libraries.—The University Library. Librarian: Malcolm G. Wyer. Assistant Librarian: Nellie J. Compton. Departmental Libraries.

LIVERPOOL.

LIVERPOOL UNIVERSITY, Brownlow Hill. (1881.)

Terms: Three per year.

Students: 2,237.

Budget:

The assets of the University are now valued at upwards of £1,113,327. and the annual income is over £80,000.

The expenditure for Session 1917-18 amounted to £85,093 8s. 9d.

OFFICERS AND OFFICIALS.

Chancellor.—The Right Hon. the Earl of Derby, K.G., G.C.V.O., LL.D.

Vice-Chancellor.—Col. J. G. Adami, C.B.E., M.A., F.R.S.

Registrar.—Edward Carey, LL.B.

Librarian.—John Sampson, M.A., D.Litt.

Degrees conferred :

<i>Degrees.</i>	<i>Hoods.</i>
B.A. and B.Com. Sc.	Black cloth, lined with apple-blossom silk, the colour of the Faculty, and bordered with white fur.
B.Arch.	Black cloth, lined with white silk, edged with two narrow lines of black velvet, and bordered with white fur.
M.A.	Black silk or cloth, lined with apple-blossom silk.
Litt.D.	Scarlet cloth, lined with apple-blossom silk.
B.Sc.	Black cloth, lined with slate-blue silk, the colour of the Faculty, and bordered with white fur.
M.Sc.	Black silk or cloth, lined with slate-blue silk.
D.Sc.	Scarlet cloth, lined with slate-blue silk.
M.B. and Ch.B.	Black cloth, lined with lavender silk, the colour of the Faculty, and bordered with white fur.
Ch.M. and M. H.	Black silk or cloth, lined with lavender silk.
M.D.	Scarlet cloth, lined with lavender silk.
B.D.S.	Black cloth, lined with dark red silk, and bordered with white fur.
M.D.S.	Black silk or cloth, lined with dark red silk.
B.V.Sc.	Black cloth, lined with grey silk, and bordered with white fur.
M.V.Sc.	Black cloth, lined with grey silk.
D.V.Sc.	Scarlet cloth, lined with grey silk.
LL.B.	Black cloth, lined with bronze silk, the colour of the Faculty, and bordered with white fur.
LL.M.	Black silk or cloth, lined with bronze silk.
LL.D.	Scarlet cloth, lined with bronze silk.
B. Eng.	Black cloth, lined with orange silk, the colour of the Faculty, and bordered with white fur.
M.Eng.	Black silk or cloth, lined with orange silk.
D.Eng.	Scarlet cloth, lined with orange silk.

PROFESSORS.

FACULTY OF ARTS.

Professors :

- L. P. Abercrombie, *Civic Design.*
- R. C. Bosanquet, *Classical Archeology.*
- A. B. Boswell, *Russian.*
- E. T. Campagnac, *Education.*
- F. S. Carey, *Mathematics.*
- R. H. Case, *English Literature.*
- W. E. Collinson, *German.*
- O. Elton, *English Literature.*
- Sir J. G. Frazer, *Social Anthropology.*
- J. Garstang, *Methods and Practice of Archeology.*
- E. C. K. Gonner, *Economics.*
- W. R. Halliday, *Ancient History.*
- A. Mair, *Philosophy.*
- (Vacant), *Egyptology.*
- J. P. Postgate, *Latin.*
- C. H. Reilly, *Architecture.*
- P. M. Roxby, *Geography.*
- A. C. Pearson, *Greek.*
- C. K. Webster, *Modern History.*
- H. C. K. Wyld, *English Language.*
- W. H. Young, *Philosophy and History of Mathematics.*

Lecturers :

- H. A. Ormerod, *Greek.*
- M. T. Smiley, *Latin.*
- G. E. Renault, *French.*
- P. Rébora, *Italian.* (Sen.)

Lecturers—Continued :

- J. Glyn Davies, *Celtic.* (Senior Lecturer in Welsh.)
- L. Abercrombie, *Poetry.*
- G. W. Coopland, *Medieval History.*
- W. G. Jones, *History.*
- G. S. Veitch, *Modern History.*
- J. A. Twenlow, *Paleography and Diplomatics.*
- J. Montgomery, *Commercial Theory and Practice.*
- R. A. Macdonald, *Economics.*
- M. H. L. Davies (Miss), *Methods and Practice of Social Work.*
- E. Rathbone (Miss), *Local Government.*
- G. C. Field, *Philosophy.*
- F. A. Colle (Miss), *Education.*
- L. B. Budden, *Architecture.*
- T. H. Mawson, *Landscape Design.*
- H. C. Dowdall, *Civic Law.*
- S. Proudman, *Applied Mathematics and Mathematical Hydrography.*
- A. Boole-Stott (Hon.), *Mathematics.*
- A. W. Pollitt, *Music.*
- 11 Assistant Lecturers.

FACULTY OF SCIENCE.

Professors :

- E. C. C. Baly, *Inorganic Chemistry.*
- J. M. Beattie, *Bacteriology.*
- P. G. H. Boswell, *Geology.*

Professors—Continued :

- L. Doncaster, *Zoology*.
 R. J. Harvey-Gibson, *Botany*.
 W. A. Herdman, *Oceanography*.
 W. C. McCullagh Lewis, *Physical Chemistry*.
 R. Newstead, *Entomology*.
 W. Ramsden, *Bio-Chemistry*.
 R. Robinson, *Organic Chemistry*.
 L. R. Wilberforce, *Physics*.

Lecturers :

- J. Rice, *Physics*.
 J. Smeath Thomas, *Analytical Chemistry*.
 A. Holt, *Physical Chemistry*.
 F. W. Kay, *Applied Organic Chemistry*.
 E. G. Jones, *Public Health Chemistry*.
 R. C. Bamber (Miss), *Zoology*.
 S. T. Burfield "
 M. Baldwin (Miss) "
 J. Johnstone, *Oceanography*.
 J. T. Jenkins, *Sea Fisheries*. (Hon.)
 A. Scott, *Economic Ichthyology*.
 H. C. Chadwick, *Marine Biology*.
 W. H. Roberts, *Public Health Chemistry*.
 12 Assistant Lecturers.

FACULTY OF MEDICINE.**Professors :**

- J. H. Abram, *Therapeutics*.
 H. Briggs, *Midwifery*.
 R. J. McL. Buchanan, *Forensic Medicine*.
 E. E. Glynn, *Pathology*. [cine.
 T. R. Glynn, *Medicine*.
 E. W. Hopo, *Hygiene*.
 J. S. Macdonald, *Physiology*.
 R. Parker, *Surgery*.
 J. W. W. Stephens, *Tropical Medicine*.
 W. T. Thomas, *Regional Surgery*.
 W. Yorke, *Parasitology*.

Lecturers :

- D. Douglas-Crawford, *Surgical and Applied Anatomy*.
 W. H. Broad, *Physical Anthropology*.
 F. A. Duffield, *Physiology*.
 Sir R. Jones, *Orthopedic Surgery*.
 R. E. Kelly, *Practical Surgery*.
 K. W. Monsarrat, *Operative Surgery*.
 J. E. W. MacFall, *Forsenic Medicine, Toxicology*.
 A. A. Mussen, *Hygiene, Practical Sanitation*.
 W. Hanna, *Public Health Administration*.
 T. H. Bickerton, *Ophthalmology*.
 T. P. Cowen, *Mental Diseases*.
 P. Davidson, *Diseases of Children*.
 J. H. Abram, *Clinical Medicine*.
 J. M. Bligh "
 R. J. M. Buchanan, *Clinical Medicine*.
 A. G. Gullan "
 J. Hay "
 C. J. Macalister "

Lecturers—Continued :

- J. Owen, *Clinical Medicine*.
 J. L. Roberts "
 R. A. Bickersteth, *Clinical Surgery*.
 D. D. Crawford "
 A. J. Evans "
 Sir R. Jones "
 T. C. L. Jones "
 F. C. Larkin "
 K. W. Monsarrat "
 G. P. Newbolt "
 G. C. E. Simpson "
 W. T. Thomas "
 W. B. Bell, *Gynecology*.
 C. Bundle, *Infectious Diseases*.
 W. Hanna, *Vaccination*.
 P. H. Marsden, *Materia Medica and Pharmacy*.
 F. P. Wilson, *Specific Diseases*.
 H. Leslie-Roberts, *Dermatology*.
 W. Permewan, *Laryngology*.
 3 Assistant Lecturers.

FACULTY OF ENGINEERING.**Professors :**

- T. B. Abell, *Naval Architecture*.
 E. W. Marchant, *Applied Electricity*.
 S. W. Perrott, *Civil Engineering*.
 W. H. Watkinson, *Engineering*.

Assistant Professor :

- W. Mason, *Strength of Materials*.

Lecturers :

- G. E. Scholes, *Engineering*.
 F. J. Teago, *Electrical Engineering*.
 T. R. Wilton, *Dock and Harbour Construction*. [tions.
 E. J. Rimmer, *Contracts and Specifications*.
 W. Anderson, *Engineering Design and Drawing*.
 J. W. Anderson, *Refrigeration*.
 8 Assistant Lecturers.

FACULTY OF LAW.**Professors :**

- F. R. Batt, *Commercial Law*.
 W. L. Blease, *Law*.
 His Honour Judge A. P. Thomas, *International Law*.

Lecturers :

- J. Findlay, *Equity and Jurisprudence*.
 G. W. Coopland, *English Constitutional History*.

DENTAL SURGERY.**Lecturers:**

- J. A. Woods, *Dental Anatomy, Physiology, and Dental Histology*.
 W. H. Gilmour, *Dental Surgery*.
 H. W. P. Bennetto, *Operative Dental Surgery*.
 L. Osborn, *Dental Mechanics*.
 J. S. Thomas, *Dental Metallurgy*.
 P. H. Marsden, *Materia Medica*.
 R. Edwards, *Clinical Dental Surgery*.

VETERINARY SCIENCE.

Lecturers :

- S. Jackson, *Stable Management*.
 H. Sumner " " "
 F. C. Lewis, *Bacteriological Methods*.
 P. H. Marsden, *Materia Medica and
 Pharmacy*.
 H. Sumner, *Materia Medica and
 Pharmacy*. [*Toxicology*.]
 J. E. W. McFall, *Jurisprudence and*

Lecturers—Continued :

- A. A. Mussen, *Dietetics and Hygiene*.
 H. Sumner, *Veterinary Medicinc*.
 J. S. Jones, *Veterinary Surgery and
 Operative Veterinary Surgery*.
 J. S. Jones, *Meal Inspection*. [*Surgery*.]
 H. Sumner, *Clinical Medicine and
 Surgery*.
 S. Jackson, *Clinical Medicine and
 Surgery*. [*Surgery*.]
 T. E. Jones, *Clinical Medicine and*

Post-Graduate Courses.—In all the Departments of the University every encouragement is given to graduates and other persons possessing suitable qualifications to study for higher degrees and diplomas, and every facility afforded for carrying out original investigations. Certain Departments are entirely devoted to post-graduate teaching and research work.

The degree of Doctor in the Faculties of Arts, Science, Medicine, Law, and Engineering is awarded for research, and the degree of Master may be obtained by research as well as by examination.

A Doctorate in the Faculties of Art, Science, Medicine, and Engineering (Doctor in Philosophy) has also been established.

Museums.—Museums of Archeology, Anatomy, Pathology, Zoology, Botany, Geology, Chemistry, Materia Medica, Gynecology, Hygiene, Surgery, and Forensic Medicine.

Library.—University Library.

AFFILIATED INSTITUTIONS.

- St. Aidan's College, Birkenhead.
 Edge Hill Training College.
 Mount Pleasant Training College.
 The Royal Infirmary.
 Royal Southern Hospital.
 David Lewis Northern Hospital.
 Stanley Hospital.
 Hospital for Women (Shaw Street).
 Infirmary for Children.
 Eye and Ear Infirmary.
 St. Paul's Eye and Ear Hospital.
 Liverpool Maternity Hospital and Ladies' Charity.
 St. George's Hospital for Diseases of the Skin.
 The Dental Hospital.
 Wigan Infectious Diseases Hospital.
 City Hospital South (Parkhill Road and Grafton Street).
 City Hospital North (Netherfield Road).
 City Hospital East (Mill Land).
 City Hospital (Fazakerley).
 Birkenhead Fever Hospital.
 Bootle Fever Hospital.
 Wigan Fever Hospital.
 Wallasey Infectious Diseases Hospital.

LIVERPOOL SCHOOL OF TROPICAL MEDICINE. (1899.)

A research institution for the study of Tropical Medicine and Hygiene.

Terms : Two per year and an advanced course.

OFFICERS.

Hon. President.—H.R.H. Princess Helena Victoria.

Chairman.—Mr. F. C. Danson.

Vice-Chairman.—R. Caton, M.D., LL.D., F.R.C.P.

Hon. Vice-Presidents.—

The Earl of Derby, K.G., G.C.V.O.

Viscount Milner, G.C.B.

Lord Pirrie, K.P.

Lord Leverhulme.

Sir Owen Philipp^s, K.C.M.G., M.P.

Sir Edward Merewether, K.C.V.O.

Mr. O. Harrison Williams.

STAFF.

1. At the University of Liverpool.

Professors :

Lieut.-Col. J. W. W. Stephens, *Tropical
Medicine.*
R. Newstead, *Entomology.*
W. Yorke, *Parasitology.*

Lecturers :

E. W. Hope, *Municipal Sanitation.*
H. F. Carter, *Entomology.*
A. M. Evans, „ *[Sanitation.*
Lieut.-Col. W. T. Prout (Hon.), *Tropical*
B. Blacklock, *Parasitology.*

Honorary Statistician.—Walter Stott.

2. At the Royal Infirmary, Liverpool.

Physician.—J. W. W. Stephens.

3. At the Yellow Fever Research Laboratory of the School, Manassas.

Director.—H. W. Thomas, M.D., C.M.

Publication.—Annals of Tropical Medicine and Parasitology.

Laboratory.—Pembroke Place, Liverpool.

Hospitals.—

Royal Infirmary, Liverpool.

Auxiliary Military Hospital, Pembroke Place.

Secretary : S. Evans, H24/25, Exchange Buildings, Liverpool.

LOGAN (Utah).

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—F. S. Harris.

LONDON.

UNIVERSITY OF LONDON, South Kensington, S.W. 7. (1836.)

Reconstituted 1900.

Terms : Three a year.

Students : 4,587.

Visitor.—His Majesty the King in Council.

SENATE.

Chancellor.—The Rt. Hon. the Earl of Rosebery and Midlothian, K.G., K.T., D.C.L., LL.D., F.B.A., F.R.S.

Vice-Chancellor.—Sydney Russell Wells, M.D., B.Sc., M.R.C.P., M.R.C.S.

Chairman of Convocation.—Sir Edward Henry Busk, M.A., LL.B.

Appointed by His Majesty in Council.

The Rt. Hon. Francis Dyke Acland, M.P.

Sir William Henry Beveridge, K.C.B., M.A., B.C.L.

Professor Sir Arthur Schuster, Ph.D., LL.D., D.Sc., Sc.D., F.R.S.

William Cawthorne Unwin, LL.D., B.Sc., M.Inst. C.E., F.R.S.

Appointed by Convocation.

Rev. John Albert Douglas, B.D., B.A., *Divinity.*

Miss Ellen Charlotte Higgins, B.A., *Arts.*

Professor Sidney Luxton Loney, M.A., *Arts.*

The Rt. Hon. Lord Moulton, G.B.E., K.C.B., LL.D., M.A., F.R.S., *Arts.*

Sir Albert Kaye Rollit, D.C.L., LL.D., Litt.D., B.A., F.K.C.L., D.L., *Arts.*

Rev. Herbert Brook Workman, D.D., D.Lit., M.A., *Arts.*

Thomas Bateman Napier, LL.D., *Laws.*

Clifford Blackburn Edgar, B.Mus., B.Sc., M.P., *Music.*

Thomas David Lister, C.B.E., M.D., B.S., M.R.C.P., F.R.C.S., *Medicine.*

Ernest Gordon Graham Little, M.D., B.A., F.R.C.P., M.R.C.S., L.S.A., *Medicine.*

Martin Onslow Forster, D.Sc., Ph.D., F.I.C., F.R.S., *Science.*

Charles William Kimmins, D.Sc., M.A., *Science.*

Sir Philip Magnus, Bart., B.A., B.Sc., M.P., *Science.*

Gerald Tattersall Moody, D.Sc., *Science.*

Robert Mullineux Walmsley, D.Sc., M.I.E.E., F.R.S.E., *Science.*

Sydney Russell Wells, M.D., B.Sc., M.R.C.P., M.R.C.S. „

Appointed by the Royal College of Physicians of London.

Professor Sidney Harris Cox Martin, M.D., B.S., B.Sc., F.R.C.P., M.R.C.S., F.R.S.
Sir Seymour John Sharkey, M.D., M.A., F.R.C.P.

Appointed by the Royal College of Surgeons of England.

Sir Charles Alfred Ballance, K.C.M.G., C.B., M.V.O., M.S., M.B., F.R.C.S.
Sir Charters James Symonds, K.B.E., C.B., M.D., M.S., F.R.C.S.

Co-opted to represent University College.

Sir Gregory Foster, B.A., Ph.D.
Andrew Thomas Taylor, J.P., F.S.A., F.R.I.B.A., L.C.C.

Co-opted to represent King's College.

Ronald Montagu Burrows, D.Litt., Ph.D., M.A.

Appointed by King's College (Theological Department).

Thomas Bailey Saunders, M.A.

Appointed by Lincoln's Inn.

Nathaniel Mieklem, B.A., LL.B., K.C.

Appointed by the Inner Temple.

William Robert Bowsfield, M.A., K.C., F.R.S.

Appointed by the Middle Temple.

Robert Alfred McCall, M.A., LL.D., K.C.

Appointed by Gray's Inn.

The Rt. Hon. Lord Justice Atkin, M.A.

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- Royal Holloway College.
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- Westfield College.
- London Day Training College (in Pedagogy only).
- School of Oriental Studies (for Research in Oriental subjects).

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In the Faculty of Music:

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- The London (Royal Free Hospital) School of Medicine for Women.
- The London School of Tropical Medicine (in Tropical Medicine only).

The Lister Institute of Preventive Medicine (for Research in Hygiene and Pathology).

The Royal Army Medical College (for Officers of the Royal Army Medical Corps).

The Royal Dental Hospital and London School of Dental Surgery (in Dentistry only).

The Naval Medical School of the Royal Naval College, Greenwich (for Officers of the Royal Naval Medical Corps).

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School of Pharmacy of the Pharmaceutical Society of Great Britain.

AFFILIATED INSTITUTIONS.

The teaching of the University is organized under three categories: (1) That conducted by the University itself; (2) that conducted by the several "Schools of the University"; (3) that conducted at the other Institutions at which there are "Recognized Teachers of the University."

UNIVERSITY OF LONDON, UNIVERSITY COLLEGE, Gower St., W.C. (1826.)

Terms : Three a year.

Students : 20,218 (1916-19).

Budget : The College estimates are approved annually by the University Senate. The estimates for 1918-19 provide for an expenditure of £65,730.

OFFICERS.

Chairman.—The Rt. Hon. Lord Reay, K.T.

Vice-Chairman.—J. Bourne Benson, B.A., LL.D.

Treasurer.—F. V. Schuster, B.A.

Acting Treasurer.—H. Keene.

Provost.—Sir Gregory Foster, B.A., Ph.D.

Secretary.—Walter W. Seton, M.A., D.Litt.

Librarian.—R. W. Chambers, M.A., D.Litt.

Tutor to Women Students.—Winifred Smith (Miss), B.Sc.

PROFESSORS.

FACULTY OF ARTS,
INCLUDING ARCHITECTURE AND
FINE ART.

Professors :

- E. A. Gardner, *Archeology*.
 A. E. Richardson, *Architecture*.
 S. D. Adshead "
 P. Geyl, *Dutch*.
 W. M. Flinders-Petrie, *Egyptology and
 Coptic*.
 W. P. Ker, *English*.
 H. Tonks, *Fine Arts*.
 J. H. Thomas, *Sculpture*.
 L. M. Brandin, *French and Romance
 Philology*.
 E. J. Garwood, *Geography (Physical)*.
 L. W. Lyde, *Geography (Economic)*.
 R. Priebseh, *German and Germanic
 Philology*.
 J. G. Robertson, *German*.
 J. Arthur Platt, *Greek*.
 H. Gollancz, *Hebrew*.
 F. C. Montague, *History*.
 A. F. Pollard "
 A. Cippico, *Italian*.
 H. E. Butler, *Latin*.
 L. N. G. Filon, *Mathematics (Applied)*.
 M. J. M. Hill, *Mathematics (Pure)*.
 G. D. Hicks, *Philosophy and Psychology*.
 C. Spearman "
 H. S. Foxwell, *Political Economy*.

FACULTY OF LAWS.

Professors :

- Sir J. Macdonell, *Comparative Law*.
 J. H. Morgan, *Constitutional Law*.
 A. F. Marison, *Jurisprudence*.
 (Vacant), *Roman Dutch Law*.

FACULTY OF SCIENCE.

Professors :

- F. W. Oliver, *Botany*.
 J. N. Collie, *Chemistry*.
 F. G. Donnan "
 K. Pearson, *Applied Statistics and
 Eugenics*.
 E. J. Garwood, *Geology*.
 A. J. Clark, *Pharmacology*.
 W. H. Bragg, *Physics*.
 J. P. Hill, *Zoology and Comparative
 Anatomy*.

FACULTY OF ENGINEERING.

Professors :

- E. G. Coker, *Civil and Mechanical En-
 gineering*.
 J. A. Fleming, *Electrical Engineering*.
 E. R. Matthews, *Municipal Engi-
 neering*.
 H. R. Kenwood, *Hygiene and Public
 Health*.

FACULTY OF MEDICAL
SCIENCES.

Professors :

- G. Elliot Smith, *Anatomy*.
 H. R. Kenwood, *Hygiene and Public
 Health*.
 A. J. Clark, *Pharmacology*.
 E. H. Starling, *Physiology*.
 W. M. Bayliss "

SCHOOL OF LIBRARIANSHIP.

Director—E. A. Baker.

Assistants:

- A. Estdale, *Bibliography*.
 W. R. B. Prideaux, *Cataloguing and
 Library Routine*.
 W. C. B. Sayers, *Classification*.
 H. W. Fovargue, *Public Library Law*.
 B. M. Headicar, *Library Organization*.
 R. W. Chambers, *Literary History*.
 E. A. Baker, *Literary History and Book
 Selection*.
 H. Jenkinson, *Paleography and Ar-
 chives*.

Readers :

- R. W. Chambers, *English*.
 M. T. Ormsby, *Surveying*.
 W. Perrett, *German*.
 M. Cary, *Ancient History*.
 N. H. Baynes, *History of the Roman
 Empire*.
 E. G. Gardner, *Italian*.
 G. H. J. Hurst, *English Law*.
 T. G. Hill, *Plant Physiology*.
 A. W. Porter, *Thermodynamics*.
 J. J. Guest, *Graphics and Structural
 Engineering*.
 D. Jones, *Phonetics*.
 F. W. Thomas, *Tibetan*.
 T. L. Wren, *Geometry*.

Assistant Professors :

- H. P. Philpot, *Civil and Mechanical
 Engineering*.
 W. C. Clinton, *Electrical Engineering*.

Lecturers :

- H. G. Spearing, *Archeology*.
 A. Stratton, *Architecture*.
 T. G. Pinches, *Assyriology*.
 Sir G. Foster, *English*.
 T. Borenius, *Fine Arts*.
 S. Mawson "
 A. T. Porter "
 A. P. Newton, *American and Colonial
 History*.
 Lt.-Col. G. P. A. Phillips, *Military
 Science*.
 F. W. Thomas, *Comparative Philology*.
 C. Read, *Psychology*.
 F. Aveling "
 J. C. Flugge

Lecturers—Continued :

- J. H. Helweg, *Danish*.
 I. C. Gröndahl, *Norwegian*.
 Im. Björkhagen, *Swedish*.
 H. Hirschfeld, *Semitic Epigraphy*.
 E. J. Salisbury, *Botany*.
 W. Smith (Miss) „
 M. C. Stopes, *Paleobotany*.
 E. N. Thomas (Miss), *Botany*.
 Irvine Masson, *Chemistry*.
 Oskar Berdy „

Lecturers—Continued :

- P. Haas, *Plant Chemistry*.
 A. H. Barker, *Heating and Ventilating*.
 H. Deans, *Railway Engineering*.
 A. T. Walmisley, *Waterways, Harbours, and Docks*.
 A. G. R. Foulerton, *Hygiene and Public Health*.
 D. M. S. Watson, *Zoology and Comparative Anatomy*.

Post-Graduate Courses.—Facilities for Post-Graduate and Research Work are provided in all Departments.

Libraries.—The Libraries contain about 145,000 volumes and upwards of 21,060 pamphlets. *Librarian* : R. W. Chambers.

Museums.—The chief Museums in the College are: (1) Anatomy, (2) Egyptology, (3) Zoology and Comparative Anatomy. There is also the Flaxman Gallery and Flaxman Drawing Room containing sculptures and drawings by the sculptor, John Flaxman.

KING'S COLLEGE, Strand, London, W.C. (1828.)

Terms : Three a year.

Students : 1,400.

OFFICIALS.

- Principal.*—R. M. Burrows, D.Litt., Ph.D.
Dean of Theological Dept.—Rev. W. R. Matthews, M.A., B.D.
Sub-Dean of Theological Dept.—Rev. S. C. E. Legg, M.A.
College Secretary.—S. T. Shovelton, M.A.

Degrees and Hoods.—See University of London.

PROFESSORS.

FACULTY OF ARTS.

Professors :

- W. C. F. Walters, *Greek*.
 S. A. F. White, *Mathematics*.
 J. W. Nicholson „
 Sir I. Gollancz, *English Language and Literature*.
 A. W. Pollard, *English Bibliography*.
 V. Spiers, *French*.
 J. Fitzmaurice-Kelly, *Spanish*.
 G. Young, Camoens, *Portuguese*.
 H. G. Atkins, *German*.
 Sir Bernard Pares, *Russian*.
 A. J. Toynbee, *Modern Greek*.
 R. M. Burrows, *Modern Greek History*.
 Rev. Canon G. N. Box, *Hebrew*.
 F. J. C. Hearnshaw, *Medieval and Modern History*.
 Rev. C. Jenkins, *Ecclesiastical History*.
 E. J. Urwick, *Political Economy*.
 Rev. W. R. Matthews, *Philosophy of Religion*.
 J. W. Adamson, *Theory and Practice of Education*.
 A. Wildon Carr, *Philosophy*.

Assistant Professor :

- J. B. Dale, *Mathematics*.

Readers and Lecturers :

- J. K. Fotheringham, *Ancient History*.
 B. E. R. Turner, *Greek*.
 C. M. Knight (Miss), *Greek*.

Readers and Lecturers—Continued :

- Rev. H. J. White, *Paleography*.
 E. B. Hall, *Evening Classes*.
 A. W. Reed, *English Language and Literature*.
 M. L. Lee (Miss), *English Language and Literature*.
 K. W. Campbell (Mrs.), *English Language and Literature*.
 O. T. Williams, *English Language and Literature*.
 M. Day (Miss), *English Language and Literature*.
 I. C. Major-Stevenson (Mrs.), *English Language and Literature*.
 H. M. Margoliouth, *English Language and Literature*.
 P. G. Thomas, *English Philology* (Evening Department).
 H. Johnstone (Miss), *Medieval and Modern History*.
 J. K. Fotheringham, *Ancient History*.
 Sir S. Low, *Imperial and Colonial History*.
 A. P. Newton, *Imperial and Colonial*.
 A. Weiner, *Evening Classes*. [History].
 E. F. Churchill, *Evening Classes*.
 H. D. Oakeley (Miss), *Moral and Mental Philosophy*.
 R. W. Seton-Watson, *East European*.
 F. J. Kidson, *Elocution*. [History].
 J. Stefansson, *Icelandic*.

Readers and Lecturers—Continued :

- M. Williams (Miss), *French*.
 C. D. Webb, *French*.
 L. P. de Castelvechio (Miss), *Italian*.
 M. Cimino-King (Mrs.), *Italian*.
 J. M. Villasante, *Spanish*.
 Jose Plà, *Spanish*.
 E. S. Buchheim (Miss), *German*.
 A. G. Haltenhoff, *German*.
 A. Raffi, *Russian*.
 D. Subotic, *Serbian*.
 T. G. Masaryk, *Slavonic Literature and Sociology*.
 G. C. Logio, *Bulbarian*.
 R. W. Seton-Watson, *East European History*.
 L. Wharton, *Polish*.
 L. Oeconomos, *Modern Greek*.

FACULTY OF LAWS.

- H. J. H. Mackay. W. H. Griffith.
 W. N. Hibbert. A. Page.
 W. V. Ball.

FACULTY OF SCIENCE.**Professors :**

- W. B. Bottomley, *Botany and Vegetable Biology*.
 A. W. Crossley, *Chemistry*.
 A. J. Allmand "
 S. A. F. White, *Mathematics*.
 J. W. Nicholson "
 O. W. Richardson, *Physics*.
 A. Dendy, *Zoology and Animal Biology*.
 E. Barclay-Smith, *Anatomy, Descriptive and Surgical*.
 W. E. Dixon, *Materia Medica and Pharmacology*.
 W. D. Halliburton, *Physiology*.
 W. J. R. Simpson, *Public Health and Bacteriology*.
 R. T. Hewlett, *Public Health and Bacteriology*.

Assistant Professors :

- J. B. Dale, *Mathematics, Pure and Applied*.
 D. Sommerville, *Public Health and Bacteriology*.

Readers and Lecturers :

- R. R. Gates, *Botany*.
 L. E. Hinkel, *Chemistry*.
 D. H. Clibbens "
 R. W. K. Edwards, *Mathematics*.
 S. T. Shovelton "
 J. F. Tinto "
 J. Quinton "
 W. T. Gordon, *Geology*.

Readers and Lecturers—Continued :

- W. Wilson, *Physics*.
 A. J. Philpott, *Physics*.
 B. L. Worsnop "
 J. E. Bowen "
 W. Brown, *Psychology*.
 D. L. Mackinnon (Miss), *Zoology*.
 M. Tribe, (Miss), *Zoology*.
 R. J. Gladstone, *Anatomy, Descriptive and Surgical*.
 S. A. Boyd, *Applied Anatomy*.
 F. S. Locke, *Physiology*.
 O. Rosenheim, *Biochemistry*.
 D. H. de Souza, *Physiology*.
 C. da Fano, *Histology*.
 R. Charles, *Public Health*.
 A. J. Malcolm, *School Hygiene*.
 T. M. Legge, *Industrial Hygiene*.
 F. E. Taylor, *Bacteriology*.
 G. C. Low, *Parasitology and Medical Entomology*.
 J. E. Barnard, *Microscopy*.
 2 Assistant Lecturers, 6 Demonstrators,
 4 Assistant Demonstrators.

FACULTY OF ENGINEERING AND APPLIED SCIENCES.**Professors :**

- D. S. Capper, *Engineering*.
 A. H. Jameson, *Civil Engineering*.
 E. Wilson, *Electrical Engineering*.

Lecturers :

- O. S. Sinnatt, *Engineering*.
 R. Wolfenden "

FACULTY OF THEOLOGY.**Professors :**

- Rev. G. H. Box, *Hebrew and the Exegesis of the Old Testament*.
 Rev. H. J. White, *Exegesis of the New Testament*.
 Rev. C. Jenkins, *Ecclesiastical History*.
 Rev. W. R. Matthews, *Physiology of Religion*.
 Rev. P. Dearmer, *Ecclesiastical Art*.
 Rev. C. F. Rogers, *Pastoral and Liturgical Theology*.
 E. J. S. Urwick, *Economics*.
 W. J. R. Simpson, *Laws of Health and Disease in their Relation to the Ministerial Office*.

Lecturers :

- Rev. F. S. Marsh, *Exegesis of the New Testament*.
 Rev. R. Hanson, *Evening Lecturer for Entrance Examination*.
 F. J. Kidson, *Elocution*.

Library.—25,000 volumes. *Librarian* : F. W. Walton, M.A.

Museums.—King George the Third Museum of Mechanical Models and Philosophical Instruments, and Anatomy.

NEW COLLEGE, South Hampstead, London. (1696.)

Terms : Three a year.

Students : 50.

OFFICIALS.

Principal.—Rev. A. E. Garvie, M.A., D.D.

Secretary.—Rev. H. Staines, M.A., B.D.

PROFESSORS.

FACULTY OF THEOLOGY.

Professors :

Rev. A. E. Garvie, *Biblical and Historical Theology, and Apologetics.*

Rev. H. T. Andrews, *New Testament Exegesis, History and Criticism.*

Rev. W. A. Davies, *Old Testament Exegesis, History and Criticism.*

Rev. A. E. Garvie, *Homiletics and Pastoral Theology.*

Rev. H. H. Scullard, *Ecclesiastical History, Christian Ethics, and History of Religion.*

F. C. F. Hyde, *Elocution.*

FACULTY OF ARTS.

Arts Classes of New, Haekney, and Regent's Park Colleges meet, in combination, under the following:

Professors :

Rev. H. H. Scullard, *Psychology and Ethics.*

G. W. Kilner, *Classics and Mathematics.*

J. Johnston, *Logic and English.*

ROYAL VETERINARY COLLEGE, London, N.W. 1. (1791.)

Recognized as a Research Institute in Animal Pathology by the Board of Agriculture and Fisheries, from whom a grant is received.

Terms : Three a year.

Students : Average 150.

OFFICIALS.

Principal.—Sir John McFadyean, M.B., B.Sc., LL.D., M.R.C.V.S.

Secretary.—T. C. Wight.

Degrees conferred.—Degree or diploma granted students prepared for the professional examinations of the Royal College of Veterinary Surgeons, and for the Degree of Bachelor of Science (Veterinary) of the University of London.

PROFESSORS.

E. S. Shave, *Anatomy.*

J. T. Evans, *Biology.*

G. D. Lauder, *Chemistry.*

G. H. Woolridge, *Hygiene and Dietetics, Medicine and Parasitology.*

E. D. Reynolds, *Materia Medica and Pharmacy.*

Sir John McFadyean, *Pathology and Bacteriology.*

G. A. Buckmaster, *Physiology and Histology.*

J. Macqueen, *Surgery.*

1 Demonstrator.

Senior Research Assistant.—J. T. Edwards,

Post-Graduate Courses of eight weeks each, open only to qualified veterinary surgeons and medical men, in Veterinary Pathology and Bacteriology are held once or twice each year.

HACKNEY COLLEGE FOUNDATION, REGISTERED, 527, Finchley Road, Hampstead, London, N.W. 3. (1803.)

Has joint Professors with the New College, Hampstead, and is a Divinity School of the University of London.

Terms : Three a year.

Students : 20.

Budget :

Income	£2,820 19s. 0d.
Expenditure	£2,779 8s. 6d.

OFFICIAL.

Principal.—P. T. Forsyth, M.A., D.D.

Degrees and Hoods. As London University.

PROFESSORS.

P. T. Forsyth, *Apologetics, Dogmatics, and Homiletics.*
 Rev. H. H. Seullard, *Church History, History of Religions, and Christian Ethics.*

Rev. H. T. Andrews, *Hellenistic Greek, New Testament Introduction and Interpretation.*
 Rev. W. A. Davies, *Hebrew, Old Testament History Introduction and Interpretation.*

3 Lecturers.

Post-Graduate Courses in Theology.

Libraries.—

College Library.

Principal Cave's Library. *Librarian*: A Senior Student elected annually.

BIRKBECK COLLEGE, Breams Buildings, Chancery Lane, E.C. 4. (1823.)

Terms: Three a year.

OFFICIALS.

Principal.—George Sente, D.Sc., Ph.D., F.I.C.

Secretary.—H. Wells Eames.

LECTURERS.

F. A. Wright, *Latin.*
 F. H. Marshall, *Greek.*
 J. H. Lobban, *English Literature.*
 B. M. Daunt (Miss), *English Language.*
 V. E. Kastner, *French Language and Literature.*
 L. W. Stone (Miss), *French Romance Philology.*
 J. Bithell, *German Language and Literature, Italian Language and Literature.*
 J. Johnston, *Logic.*
 W. H. Pringle, *Economics.*
 A. Jones, *History.*
 J. F. Unstead, *Geography.*
 G. H. J. Hurst, *The British Constitution.*
 E. H. Smart, *Mathematics.*
 C. V. Coates ,,
 L. J. Mordell, *Mathematics.*
 A. Griffiths, *Physics.*
 D. Owen ,,
 B. W. Clack ,,
 H. R. Nettleton ,,

G. Senter, *Chemistry.*
 F. Barrow ,,
 S. Sugden ,,
 B. Thole ,,
 F. J. Thornyeroft, *Chemistry.*
 M. G. Barrett (Miss), *Chemistry.*
 Dame Helen Gwynne-Vaughan, *Botany.*
 F. Drabble, *Botany.*
 J. R. Matthews, *Botany.*
 J. Ramsbottom ,,
 H. W. Unthank, *Zoology.*
 E. A. Spaul ,,
 J. W. Evans, *Geology.*
 A. M. Davies ,,
 G. McD. Davies ,,
 G. H. J. Hurst, *Laws.*
 B. L. A. O'Malley, *Laws.*
 D. N. Pritt, *Laws.*
 F. Barrett-Lennard, *Laws.*
 W. Walker, *Matriculation (Eng., Maths., and Classics).*
 J. B. Harrold, *Accountancy and Book-keeping.*

Post-Graduate Courses.—Post-graduate work is carried on in most of the departments, and students undertake work for the higher degrees of the University of London in the Faculties of Arts and Science.

Museums of Botany, Zoology, and Geology.

Libraries.—A Reference Library containing about 5,000 volumes, and a Lending Library containing about 1,000 volumes. The books in both libraries belong almost exclusively to the Arts Faculty. The various departments of the Science Faculty have their own libraries, containing in all about 1,000 volumes. The Library is open daily for the use of students from 2 p.m. to 9 p.m. *Librarian*: Miss M. C. Hildyard, B.A.

THE COLLEGE OF PRECEPTORS, 2 and 3 Bloomsbury Square, W.C. 1. (1846.)

Membership is open, under conditions, to all persons engaged in education.

Terms : Two a year.

OFFICIALS.

President of the Council.—Sir Philip Magnus, Bart, M.P., F.C.P.

Vice-Presidents.—

R. F. Charles, M.A.; Prof. John Adams, M.A., LL.D., F.C.P.; and

J. F. P. Rawlinson, K.C., M.P.

Dean.—W. G. Rushbrook, LL.M.

Treasurer.—G. Armitage-Smith, M.A., D.Litt.

Secretary.—G. Chalmers.

Assistant Secretary.—C. R. Mardling.

Degrees and Hoods.—Fellowship (F.C.P.); Licentiate'ship (L.C.P.); Associateship (A.C.P.).

Holders of the College Diplomas are entitled to wear gowns and hoods as follows:

Fellows: The hood to be of black silk, with violet edging, and two bands of same colour, each an inch wide, parallel to the edging at a distance of an inch from each other and from the edging.

Licentiate's: The hood to be of black silk or stuff, with edging of violet silk, and a band of same colour an inch wide parallel to the edging at a distance of an inch from the edging.

Associates: The hood to be of black stuff, with edging of violet silk.

Library.—The Library, containing valuable works of reference, many standard works on the Theory and Practice of Education and on subjects of school instruction, and a collection of modern school text-books.

BEDFORD COLLEGE FOR WOMEN, Regent's Park, London, N.W. 1. (1849.)

Terms : Three a year.

Students : 576.

Budget : Total Expenditure, £57,247.

OFFICIALS.

Principal.—Miss Tuke, M.A.

Dean of the Faculty of Arts.—Prof. Caroline Spurgeon, Litt.D., D.-ès-L.

Dean of the Faculty of Science.—Miss C. A. Raisin, D.Sc.

Degrees conferred.—As the University of London.

PROFESSORS.

Professors :

P. Geyl, *Dutch*.

C. F. E. Spurgeon, *English Literature*.

G. Rudler, *French Literature*.

J. G. Robertson, *German*.

D. A. Slater, *Latin*.

H. Hilton, *Mathematics*.

Readers :

M. Cary, *Ancient History*.

H. Crompton, *Chemistry*.

J. F. Spencer, *Physical Chemistry*.

S. Melhuish (Miss), *Education*.

Readers—Continued :

P. G. Thomas, *English Language and Medieval Literature*.

H. V. Routh, *English Literature*.

J. Steppat, *German*.

J. M. MacGregor, *Greek*.

J. S. Edkins, *Physiology*.

B. Edgell (Miss), *Psychology*,

H. W. M. Tims, *Zoology*.

33 Lecturers and Assistant Lecturers,

14 Assistants and Demonstrators.

Library.—The Tate Library. *Librarian* : Miss J. A. Paterson.

Post-Graduate Courses.—The Pilcher Research Laboratory for research in Science is attached to the College, and facilities are provided for Post-Graduate Study in the following subjects: English Language and Literature, French Language and Literature, German, Italian, Latin, Mathematics, Botany, Chemistry, Geology, Physics, Physiology, Philosophy and Psychology, Zoology.

ST. JOHN'S HALL, Highbury, N. 5. (1863.)

Terms : Three a year.

Students : 57.

OFFICIAL.

Principal.—A. W. Greenup, D.D., Litt.D.

PROFESSORS.

Rev. A. W. Greenup, <i>Biblical Exegesis.</i>	Rev. H. Smith, <i>Philosophy.</i>
Rev. J. M. Harden, <i>Systematic Theology.</i>	Rev. Preb. W. H. Stone, <i>Homiletics.</i>

5 Lecturers.

Librarian : Harold Smith, D.D.

WESTFIELD COLLEGE, Hampstead, N.W. 3. (1882.)

Terms : Three a year.

Students : 89.

OFFICIALS.

Principal.—Miss B. S. Phillpotts, O.B.E., Litt.D., F.R.Hist.S.

Vice-Principal.—Miss A. W. Richardson, B.A.

Bursar.—Miss R. C. Black.

LECTURERS AND READERS.

C. A. J. Skeel (Miss), <i>History.</i>	M. Anderson Scott (Miss), <i>History.</i>
C. E. Parker (Miss), <i>Classics.</i>	K. M. Warren (Miss), <i>English Language and Literature.</i>
E. M. Almond (Miss) ,,	B. M. Daunt (Miss), <i>English Language and Literature.</i>
M. Alford (Miss) ,,	Madame Turquet, <i>French.</i>
Rev. J. W. Coke Norris, <i>Classics.</i>	E. M. Delf (Miss), <i>Botany.</i>
L. J. Whitby (Miss), <i>Mathematics, Pure and Applied.</i>	

Librarian : Miss C. E. Parker.

CITY AND GUILDS OF LONDON INSTITUTE, Head Office at Gresham College, London, E.C. (1878.)

OFFICIALS

Chairman of the Council.—The Right Hon. the Earl of Halsbury.

Chairman of the Executive Committee.—Sir Edward H. Buck, M.A., LL.B.

Treasurer.—L. B. Sebastian.

Honorary Secretaries.—Sir John Watney and P. M. Evans, M.A.

Secretary.—A. L. Soper.

Diploma.—A.C.G.I.

The operations of the Institute are divided broadly into four branches :

1. The City and Guilds (Engineering) College, Exhibition Road, S.W., forms the Engineering Section of the Imperial College of Science and Technology.
2. The City and Guilds Technical College, Finsbury, provides day courses of instruction in Engineering and Chemistry.
3. The City and Guilds South London Technical Art School, 122-4, Kennington Park Road, embraces departments of Modelling, Drawing and Painting, and House Decoration.
4. The object of the Institute's Department of Technology, Exhibition Road, S.W., is the registration and inspection of classes in Technology, Domestic Subjects, and in Manual Training, and the holding of annual examinations in the subjects taught in such classes throughout the country and in the Colonies.

PROFESSORS.

Professors :

(At the City and Guilds (Engineering) College, Exhibition Road, S.W.)

W. E. Dalby, *Mechanical Engineering and Motive Power.*

Professors—Continued :

S. W. Dixon, *Civil Engineering and Surveying.*

T. Mather, *Electrical Engineering.*

A. R. Forsyth, *Mathematics.*

Assistant Professors :

W. Hewson.
A. Cruickshank.
G. W. O. Howe.
H. Klugh.
E. F. D. Witchell.
S. P. Smith.
J. W. Pursler.
11 Lecturers.

Professors :

(At the City and Guilds Technical College, Finsbury.)
W. H. Eceles, *Applied Physics and Electrical Engineering.*
A. J. Margetson, *Civil and Mechanical Engineering.*
(Vacant), *Applied Chemistry.*
8 Lecturers.

BATTERSEA POLYTECHNIC, Battersea Park Road, London, S.W. 11. (1891.)

Terms : Three a year.

Students : Evening and afternoon .. 1,700
Full-time day courses .. 490

OFFICIAL.

Principal.—R. H. Pickard, D.Sc., F.R.S.

PROFESSORS.

W. E. M. Curnock, *Mechanical and Civil Engineering.*
A. T. Dover, *Electrical Engineering.*
F. M. Saxelby, *Mathematics.*
S. Marsh, *Physics.*
J. Wilson, *Chemistry.*

H. Bideloux (Miss), *Hygiene and Physiology.*
A. H. Baxter, *Art.*
M. E. Marsden (Miss), *Domestic Science.*
H. D. Wetton, *Music.*

Post-Graduate Courses.—Post-Graduate Courses are held in the Polytechnic in certain special branches of Chemistry and Engineering, such as Chemical Engineering, Advanced Structural Design, and Internal Combustion Engines, with special relation to the Petrol Motor and its application to Aeronautical work.

Library.—The Library contains books on Engineering, Architecture, Science, Art, Music, Hygiene, Domestic Science, etc.—the number of books about 6,000.

LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE, Clare Market, Kingsway, W.C. 2. (1895.)

Terms : Three a year. *Students :* (1918-19) 2,273.
Budget (Total receipts 1918-19): £24,758 6s. 6d.

OFFICIALS.

Chairman, Court of Governors.—Sir Arthur Steel-Maitland, Bart., M.P.

Vice-Chairman, Court of Governors.—The Hon. Sir John Cockburn, K.C.M.G., M.D.

Director.—Sir William H. Beveridge, K.C.B., M.A., B.C.L.

Secretary.—Mrs. Mair, D.B.E., M.A.

Dean.—Miss C. S. Mactaggart.

Degrees conferred.—As University of London.

PROFESSORS.

A. L. Bowley, *Mathematics and Statistics.*
E. Cannan, *Economic Theory.*
L. R. Dicksee, *Accounting and Business Methods.*
H. S. Foxwell, *Banking and Currency.*
A. Pearce Higgins, *International Law.*
L. T. Hobhouse, *Sociology.*
J. H. Morgan, *Constitutional Law.*

A. J. Sargent, *Geography and Commerce.*
C. G. Seligman, *Ethnology.*
E. J. Urwick, *Social Science and Administration.*
Graham Wallas, *Political Science.*
S. Webb, *History and Public Administration.*
E. A. Westermarck, *Sociology.*
12 Lecturers.

Post-Graduate Courses.—Post-Graduate Courses and research in all departments.

Library.—British Library of Political Science. *Librarian:* B. M. Headicar.

CITY OF LONDON COLLEGE, White Street and Rope-maker Street Moorfields.

Terms : Three a year.

Students : 2,200 evening students; 300 day students.

OFFICIALS.

Principal.—Sidney Humphries, B.A., LL.B. (Cantab.).

Secretary and Registrar.—David Savage, F.C.I.S.

LECTURERS.

G. Mairet, *Arithmetic*.
 J. F. Davis, *Banking and Finance*.
 H. A. Wesson, *Book-Keeping, Accountancy and Auditing*.
 G. T. Barton, *Book-Keeping, Accountancy and Auditing*.
 W. Fenton, *Bookkeeping*.
 H. S. Jardine, *Building Construction*.
 J. P. Larke " "
 G. Mairet, *Business Organization and Routine*.
 A. W. Bain, *Chemistry*.
 G. Mairet, *Commercial Correspondence and Business Method*.
 B. Gehrke, *Dutch*.
 W. H. L. Jones, *Economics*.
 L. Aaronson, *Economics*.
 E. Minshall, *Elocution*.
 B. L. K. Henderson, *English*.
 G. O. E. Lydall (Miss), *English*.
 W. F. Spalding, *Foreign Exchange*.
 J. A. Perret, *French*.
 H. Saunion " "
 C. S. Howells, *French and Mathematics*.
 P. Barber, *German*.
 R. S. Crump, *Greek and Latin*.
 A. N. Aynsley (Miss), *Gymnastics (Women)*.

C. Evans, *Insurance (Accident)*.
 J. Henderson, *Insurance (Fire)*.
 S. Preston " "
 J. B. Eland, *Insurance (Marine)*.
 W. Wilkinson, *Italian*.
 S. Humphries, *Law*.
 W. G. Hawtin " "
 H. C. Bickmore " "
 R. Bryant, *Mathematics*.
 Mrs. Fitzhenry, *Pianoforte*.
 J. C. Masearenhas, *Portuguese*.
 J. J. Taylor, *Quantity Surveying*.
 S. G. Stafford, *Russian*.
 Nandy Hoskins, *Sanitary Science*.
 J. A. Stocker, *Secretarial Practice and Duties*.
 E. E. Rayner, *Shorthand*.
 F. C. Perrins, *Shorthand (French)*.
 D. Bowman, *Spanish*.
 J. G. Marder, *Spanish*.
 A. E. Gayer, *Surveying and Levelling*.
 A. E. Garrett, *Textiles*.
 A. E. Morton, *Typewriting and Shorthand*.
 W. G. Brittain, *Typewriting and Shorthand*.
 R. P. Morris, *Valuation* [hand].
 M. W. Tossell, *Writing*.

Library.—Students' Reference and General Library. *Librarian* : Frank Barnard.

EAST LONDON COLLEGE, Mile End Road, London, E. 1. (1907.)

Terms : Three a year.

Students (Day) : 500.

Budget : £32,000.

OFFICIALS.

Chairman of College Council.—Sir C. N. Dalton, K.C.M.G., C.B., D.C.L.

Deputy Chairman of College Council.—Arthur Warren Williams.

Treasurer.—E. H. Pooley, M.A., LL.B.

Principal.—J. L. S. Hatton, M.A.

Registrar.—E. J. Wignall.

Librarian.—Miss C. S. Murphy.

Degrees and Hoods. See University of London.

PROFESSORS.

J. L. S. Hatton, *Mathematics*.
 F. R. Earp, *Classics*.
 Sir S. Lee, *English*.
 M. Pery (Mrs.), *French*.
 F. Clarke, *Modern History*.
 C. H. Lees, *Physics*.
 J. R. Partington, *Chemistry*.

F. E. Fritch, *Botany*.
 E. H. Lamb, *Civil and Mechanical Engineering*.
 J. T. MacGregor Morris, *Electrical Engineering*.
 (Vacant), *Aeronautics*.
 29 Lecturers.

Post-Graduate Courses in English, French, Modern History, Mathematics, Physics, Chemistry, Botany, Engineering,

NORTHAMPTON POLYTECHNIC INSTITUTE, Clerkenwell, E.C.1. (1896.)

Terms : Three per year.

OFFICIALS.

Principal.—R. Mullineux Walmsley, D.Sc., F.R.S.E.
Librarian.—F. Thornsby.

Mechanical Engineering and Metal Trades Department.

Head of the Department.—C. E. Larard.

Chief Assistant.—W. Longland.

6 Assistants, 6 Lecturers, 5 Instructors.

Electrical Engineering and Applied Physics Department.

Head of the Department.—R. M. Walmsley.

Associate-Head of the Department.—F. M. Denton.

19 Assistants, 7 Lecturers.

Department of Technical Optics.

Hon. Head of the Department.—F. J. Cheshire.

Head of the Department.—S. D. Chalmers.

2 Assistants, 3 Lecturers, 5 Instructors.

Department of Technical Chemistry.

Head of the Department.—S. Field.

2 Assistants, 2 Lecturers.

Horological Department.

Director.—T. D. Wright.

2 Instructors.

Miscellaneous Trades.

Director.—C. J. Rosenberg.

Women's Trades and Domestic Economy Department.

Head of the Department.—Miss A. M. Tuck.

7 Assistants.

IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY, South Kensington, London.
(1907.)

The purposes of the Imperial College as set forth in its Royal Charter are:

To give the highest specialized instruction, and to promise the fullest equipment for the most advanced training and research in various branches of Science, especially in its application to industry.

Terms : Three a year. *Students* : 900 undergraduates, 110 post graduates.

Budget : Expenditure from £90,000 to £100,000 annually.

Chairman of Governing Body.—The Most Hon. the Marquess of Crewe, K.G.

Chairman of Executive Committee.—The Rt. Hon. Sir Arthur Acland, Bt.

Chairman of Delegacy.—Sir Dugald Clerk, K.B.E.

OFFICIALS.

Rector.—Sir Alfred Keogh, G.C.B., G.C.V.O., C.H., LL.D.

Secretary.—Alexander Gow, M.A., B.Sc.

Registrar.—John Jones.

Degrees and Hoods.—

Diploma of Membership of the Imperial College (D.I.C.). Hood as the Oxford M.A., the side and shape of black silk or black stuff, partly lined with white watered silk to a depth of 6 inches, with an edging 1 inch in width, of royal purple velvet, $\frac{1}{2}$ inch from the outer edge, and with a neck-band of black silk $1\frac{1}{2}$ inches in width, lined with white watered silk, and edged with white watered silk $\frac{1}{4}$ inch in width.

Diploma of Associateship, Royal College of Science (A.R.C.S.).

Diploma of Associateship, Royal School of Mining (A.R.S.M.).

Diploma of Associateship, City and Guilds Institute (A.C.G.I.).

Hoods as for the D.I.C., except that the black portion in the neck-band of the hood is replaced by coloured silk. A.R.C.S., white; A.R.S.M., old gold; A.C.G.I., red, as in the arms of the City of London.

PROFESSORS.**Professors :**

- J. B. Farmer, *Biology and Botany*.
 H. M. Lefroy, *Entomology*.
 V. H. Blackman, *Plant Physiology*.
 P. Groom, *Woods and Fibres*.
 E. W. MacBride, *Zoology*.
 W. A. Bone, *Chemical Technology*,
Fuel, etc.
 J. W. Hinchley, *Chemical Engineering*.
 H. B. Baker, *Inorganic Chemistry*.
 J. F. Thorpe, *Organic Chemistry*.
 J. C. Philip, *Physical Chemistry*.
 S. M. Dixon, *Civil Engineering*.
 T. Mather, *Electrical Engineering*.
 W. E. Walley, *Mechanical Engineering*.
 W. W. Watts, *Geology*.
 C. G. Cullis, *Economic Mineralogy*.
 A. R. Forsyth, *Mathematics*.
 A. N. Whitehead, *Applied Mathematics*.
 H. C. H. Carpenter, *Metallurgy*.
 S. J. Truscott, *Mining*.
 L. H. Cooke, *Surveying*.
 W. W. Watts, *Mining Geology*.
 F. J. Cheshire, *Optical Engineering*
and Applied Optics.
 A. E. Courady, *Optical Design*.
 H. L. Callendar, *Physics*.

Professors—Continued :

- Lord Rayleigh, *Physics*.
 A. O. Rankine, *Physics*.
 A. Fowler, *Astrophysics*.

Assistant Professors :

- S. B. Schryver, *Biochemistry*.
 J. W. Hinchley, *Chemical Engineering*.
 (Vacant), *Chemistry*.
 J. Purser, *Civil Engineering*.
 G. W. O. Howe, *Electrical Engineering*.
 W. Hewson, *Mechanical Engineering*.
 E. F. D. Witchell, *Mechanical Engineering*.
 A. Cruickshank, *Mechanical Engineering*.
 A. R. Richardson, *Mathematics*.
 P. T. Wrigley "
 H. Klugh "
 W. H. Merrett, *Metallurgy*.
 E. O. Courtman "
 L. H. Cooke, *Mining*.
 S. J. Truscott, *Mining*.
 (Vacant), *Physics*.
 A. Pollard, *Optical Engineering (Mechanical), and Instrument Design*.
 20 Lecturers.

Post-Graduate Courses.—These are given in all the ordinary departments and sub-departments, and in addition in Railway, Structural, and Hydraulic Engineering; Surveying and Geology; Electrical Machinery and Transformers; Economics Botany-Biochemistry; Economic Entomology, etc.

Museums.—The Science Museum adjoins the buildings of the College; in addition each department has its own teaching collection or museum.

Libraries.—The Science Library of the Science Museum is situated within the Imperial College Buildings, and is available for the use of staff and students of the College.

In addition each department has its separate Technical Library.

AFFILIATED INSTITUTIONS.

The Royal College of Science, the Royal School of Mines, and the City and Guilds (Engineering) Colleges form integral parts of the Imperial College.

The Department of Metallurgy of the University of Sheffield is recognized as being in association with the Imperial College for the Advanced Metallurgy of Iron and Steel.

ST. BARTHOLOMEW'S HOSPITAL, London, E.C. (1123.)

Sessions : Three per year.

OFFICIALS.

Dean.—T. W. Shore, M.D., B.Sc.

Warden.—W. G. Ball, F.R.C.S.

Registrar.—W. E. Sargant, M.R.C.S., L.R.C.P.

LECTURERS.

Sir W. P. Herringham, *Clinical Medi-*
 H. H. Tooth, *Clinical Medicine*. [cine.
 A. E. Garrod " "
 James Calvert " "
 H. Morley Fletcher, *Clinical Medicine*.
 W. Langdon Brown, *Practical Medicine*.
 H. Thursfield " "
 Sir Anthony Bowlby, *Clinical Surgery*.
 D'Arcy Power " "
 H. J. Waring " "
 W. McAdam Eccles " "
 R. C. Bailey " "
 H. Wilson, *Practical Surgery*.
 W. Girling Ball, *Practical Surgery*.
 L. B. Rawling, *Operative Surgery*.
 C. Gordon Watson " "
 H. Wilson " "
 W. S. A. Griffith, *Midwifery and*
Diseases of Women.
 H. Williamson, *Midwifery and Diseases*
of Women. [Women.
 J. D. Barris, *Midwifery and Diseases of*
 M. Donaldson, *Practical Midwifery*.
 Prof. F. W. Andrewes, *Pathology*.
 M. H. Gordon, *Pathology*.
 A. E. Garrod, *Chemical Pathology*.
 R. L. M. Wallis " "
 C. M. Hinds Howell, *Morbid Anatomy*.
 A. E. Gow " "
 H. Blakeway " "
 J. E. H. Roberts " "
 A. E. Stansfeld, *Practical Pathology*.
 R. M. Vick " "
 R. G. Canti " "
 W. H. Jessop, *Ophthalmic Medicine and*
Surgery.
 W. Holmes Spicer, *Ophthalmic Medi-*
cine and Surgery.
 Ernest West, *Diseases of the Ear*.
 Sydney Scott " "
 W. D. Harmer, *Diseases of the Throat*
and Nose.

F. A. Rose, *Diseases of the Throat and*
Nose.
 C. MacMahon, *Speech Defects*.
 R. C. Elmslie, *Orthopedic Surgery*.
 H. G. Adamson, *Diseases of the Skin*.
 H. Morley Fletcher, *Diseases of*
Children.
 H. Thursfield, *Diseases of Children*.
 E. P. Cumberbatch, *Medical Electricity*.
 H. Walsham, *X-Rays*.
 R. Armstrong-Jones, *Mental Diseases*
and Insanity.
 R. C. Ackland, *Dental Surgery*.
 Harold Austen " "
 W. F. Cross, *Anesthetics*.
 H. E. G. Boyle " "
 F. J. Trewby " "
 R. A. Lyster, *Forensic Medicine*.
 A. Macphail, *Descriptive and Surgical*
Anatomy. [Anatomy.
 E. G. Stanley, *Descriptive and Surgical*
 A. L. Moreton, *Descriptive and Surgical*
Anatomy.
 R. A. Ramsay, *Descriptive and Sur-*
gical Anatomy.
 Prof. F. A. Bainbridge, *General Anat-*
omy and Physiology.
 J. Trevan, *General Anatomy and*
Physiology.
 P. Hamill, *Materia Medica, Pharma-*
cology and Therapeutics.
 J. Langford Moore, *Materia Medica,*
Pharmacology and Therapeutics.
 T. W. Shore, *Biology and Comparative*
Anatomy.
 W. A. Cunningham, *Biology and Com-*
parative Anatomy.
 W. H. Hurtle, *Chemistry*.
 E. Cahen, *Chemistry*.
 F. Womaek, *Physics*.
 F. I. L. Hopwood, *Physics*. [tary Lav.
 R. A. Lyster, *Public Health and Sani-*

ST. THOMAS'S HOSPITAL MEDICAL SCHOOL, Albert Embankment, S.E. (1207.)

OFFICIALS.

Dean.—Sir Cuthbert Wallace, K.C.M.G., C.B., F.R.C.S.

Sub-Dean.—C. R. Box, M.D., B.S., B.Sc.

Medical Secretary.—A. Elliot, M.A., M.D., M.R.C.P.

Medical Registrar.—E. Wordley, B.A., M.B., B.C.

Surgical Registrar.—K. H. McMillan.

Obstetric Registrar.—A. H. Richardson, M.A., M.B., B.C.

Ophthalmic Registrar.—P. G. Doyne, B.A., M.B., B.Ch., F.R.C.S.

Librarian.—Prof. F. G. Parsons, F.R.C.S.

PROFESSORS.

Consulting Physicians :

J. Harley, M.D.
 Sir Seymour J. Sharkley, M.A., M.D.
 T. D. Acland, M.A., M.D.
 H. P. Hawkins, C.B.E., M.A., M.D.
 H. W. G. Mackenzie, M.A., M.D.
 R. P. Smith, M.D.

Consulting Obstetric Physician :

H. Gervis, M.D., F.S.A.

Consulting Surgeons :

Sir George H. Makins, G.C.M.G., C.B.
 W. H. Battle.
 Sir Charles A. Ballance, K.C.M.G.
 C.B., M.V.O., M.S.

Consulting Ophthalmic Surgeon :

J. B. Lawford.

Consulting Dental Surgeon :

C. E. Truman, M.A.

Consulting Anesthetist :

Walter Tyrrell.

Professors :

F. G. Parsons, *Anatomy*.
 L. S. Dudgeon, *Bacteriology*.

Lecturers :

J. H. Brinkworth, *Physics*.
 H. R. Le Suer, *Chemistry*.
 —Mennell, *Anesthetics*.
 J. Mellanby, *Physiology*.
 H. P. Newsholme, *Pathology*.
 E. Smith, *Forensic Medicine*.
 W. H. B. Stoddart, *Mental Diseases*.
 W. J. Wooley, *Pharmacology*.
 W. Rushton, *Biology*.
 Also the Physicians and Surgeons of
 the hospital.
 11 Demonstrators.

Museum.—*Curator* : Prof. S. G. Shattock, F.R.C.S.

ROYAL COLLEGE OF SURGEONS OF ENGLAND, Lincoln's Inn Fields, W.C.
 (1462.)

OFFICIALS.

President.—Sir George Henry Matims, G.C.M.G., C.B.

Vice-Presidents.—

Sir Anthony A. Bowlby, K.C.B., K.C.M.G., K.C.V.O.

Sir John Bland-Sutton.

Secretary.—S. Forrest Cowell, M.A.

Director of Examinations.—Frederick G. Hallett, O.B.E.

Hunterian Professor.—Arthur Keith, LL.D., F.R.S.

Bradshaw Lecturer.—Sir Charles A. Ballance, K.C.M.G., C.B., M.V.O.

Degrees conferred.—Fellow (F.R.C.S.); Member (M.R.C.S.); Licentiate in Dental
 Surgery (L.D.S.R.C.S.Eng.).

Librarian : Victor G. Plarr, M.A.

Institutes and Museums.—

Consevisor of Museum : Arthur Keith, M.D., C.M., LL.D., F.R.S.

Pathological Curator : S. G. Shattock, F.R.S.

Assistant Pathological Curator.—C. F. Beadles, M.R.C.S.

Physiological Curator : R. H. Burne, M.A.

GUY'S HOSPITAL MEDICAL SCHOOL, London Bridge, S.E. (1724.)

Sessions : Three per year.

OFFICIALS.

Warden.—L. Bromley, M.C.

Dean.—H. C. Cameron, M.D.

LECTURERS.

W. Hale White, *Principles and Practice
 of Medicine*.

L. E. Shaw, *Principles and Practice of
 Medicine*.

J. Fawcett, *Principles and Practice of
 Medicine*.

A. P. Beddard, *Principles and Practice
 of Medicine*.

N. Mutch, *Practical Medicine*.

H. W. Barber " " "

T. B. Heaton " " "

Sir W. Arbuthnot Lane, Bart., *Principles
 and Practice of Surgery*.

L. A. Dunn, *Principles and Practice of
 Surgery*.

Sir Alfred Fripp, *Principles and Prac-
 tice of Surgery*.

F. J. Steward, *Principles and Practice
 of Surgery*.

P. Turner, *Operative Surgery*.

E. C. Hughes " " "

L. Bromley " " "

LECTURERS—*Continued* :

- | | |
|---|---|
| A. H. Todd, <i>Practical Surgery.</i> | A. R. Thompson, <i>Diseases of the Genito-Urinary System.</i> |
| G. T. Mullally, <i>Practical Surgery.</i> | R. Wynne Rouw, <i>Dental Surgery.</i> |
| R. C. Ozanne " " | Maurice Craig, <i>Psychological Medicine.</i> |
| E. G. Schlesinger " " | A. P. Beddard, <i>Materia Medica and Therapeutics.</i> |
| G. Bellingham Smith, <i>Obstetrics and Gynecology.</i> | A. J. Clark, <i>Pharmacology.</i> |
| H. Chapple, <i>Obstetrics and Gynecology.</i> | J. H. Ryffel, <i>Forensic Medicine.</i> |
| A. J. McNair, <i>Practical Obstetrics.</i> | R. King Brown, <i>Hygiene and Public Health.</i> |
| P. P. Laidlaw, <i>Pathology.</i> | G. Rowell, <i>Anesthetics.</i> |
| G. W. Goodhart, <i>Morbid Histology.</i> | C. H. Fagge, <i>Anatomy.</i> |
| H. S. French, <i>Morbid Anatomy.</i> | R. P. Rowlands, <i>Anatomy.</i> |
| G. H. Hunt " " | L. Bromley " " |
| R. Davies-Colley, <i>Surgical Pathology.</i> | A. H. Todd " " |
| J. W. H. Eyre, <i>Bacteriology.</i> | G. T. Mullally " " |
| J. H. Ryffel, <i>Chemical Pathology.</i> | R. C. Ozanne " " |
| G. W. Nicholson, <i>Clinical Microscopy.</i> | E. G. Schlesinger " " |
| H. L. Eason, <i>Ophthalmology.</i> | M. S. Pembrey, <i>Physiology.</i> |
| W. M. Mollison, <i>Diseases of the Throat, Nose, and Ear.</i> | G. Marshall " " |
| T. B. Layton, <i>Diseases of the Throat, Nose, and Ear.</i> | T. Martin Lowry, <i>Chemistry.</i> |
| Sir E. Cooper Perry, <i>Diseases of the Skin.</i> | R. W. Merriman " " |
| A. F. Hertz, <i>Diseases of the Nervous System.</i> | H. Rogerson, <i>Chemistry.</i> |
| H. C. Cameron, <i>Diseases of Children.</i> | A. H. Fison, <i>Physics.</i> |
| | H. H. Abram " " |
| | T. J. Evans, <i>Biology.</i> |
| | T. Reed, <i>Biology.</i> |

ST. GEORGE'S HOSPITAL MEDICAL SCHOOL, Hyde Park Corner, S.W. 1. (1733.)

Terms : Two a year.

Students : Average 25.

OFFICIALS.

Acting-Dean of the Medical School.—R. R. James, F.R.C.S.

Hon. Treasurer.—W. S. Fox, M.D.

LECTURERS.

- | | |
|---|---|
| C. Ogle, <i>Principles and Practice of Physic.</i> | I. Back, <i>Principles and Practice of Surgery.</i> |
| A. C. Latham, <i>Principles and Practice of Physic.</i> | G. F. Darwall-Smith, <i>Midwifery and Diseases of Women and Children.</i> |
| J. S. Collier, <i>Principles and Practice of Physic.</i> | E. C. Greenwood, <i>Vaccination.</i> |
| A. J. Jex-Blake, <i>Principles and Practice of Physic.</i> | J. C. Woods, <i>Insanity.</i> |
| C. W. Daniels, <i>Tropical Medicine.</i> | H. B. Grimsdale, <i>Ophthalmic Surgery.</i> |
| H. J. Pendlebury, <i>Principles and Practice of Surgery.</i> | W. S. Fox, <i>Diseases of the Skin.</i> |
| Sir Crisp English, <i>Principles and Practice of Surgery.</i> | H. S. Barwell, <i>Diseases of the Throat</i> |
| W. F. Fedden, <i>Principles and Practice of Surgery.</i> | F. Morley, <i>Dental Surgery.</i> [and Ear. |
| | J. A. Torrens, <i>Practical Medicine.</i> |
| | C. H. S. Frankau, <i>Practical Surgery.</i> |
| | G. A. Ewart, <i>Operative Surgery.</i> |
| | 4 Assistant Lecturers, 3 Assistant Teachers. |

Post-Graduate Courses.—As arranged by the Post-Graduate Association.

Libraries.—There is a Reference Library for the use of students and staff. Secretary and Librarian : S. A. Williamson.

Museums.—

Pathological Museum.

Hunterian Society.

(1) LONDON HOSPITAL MEDICAL COLLEGE. (1785.)

(2) LONDON HOSPITAL DENTAL SCHOOL. (1911.)

A constituent school of the University of London in the Faculty of Medicine.

Terms : Two a year.

Students : 300-400.

OFFICIALS.

Chairman of College Board.—W. D. Hoare.

Dean.—Prof. W. Wright, M.B., D.Sc., F.R.C.S.

Secretary.—E. J. Burdon.

PROFESSORS.

Professors :

W. Wright, *Anatomy*.
E. P. Cathcart, *Physiology*.
W. Bulloch, *Pathology and Bacteriology*.

Lecturers :

W. J. Hadley, *Medicine*.
J. Parkinson, *Cardiology*.
T. Thompson, *Clinical Medicine*.
J. Hutchinson, *Surgery*.
R. Howard, *Surgery*.
H. Lett, *Operative Surgery*.
R. Howard " "
R. Warren, *Clinical Surgery*.
R. Milne " "
H. R. Andrews, *Midwifery and Diseases of Women*.
E. L. Holland, *Practical Obstetrics*.
R. J. Probyn-Williams, *Anesthetics*.
E. W. Clapham, *Anesthetics*.
A. S. Daly " "
N. C. Rutherford, *Anatomy*.
A. J. Walton " "
H. S. Souttar " "
L. J. Austin " "
I. Feldman, *Physiology*.
W. A. M. Smart, *Physiology*.
O. Leyton, *Pharmacology and Materia Medica : Practical Pharmacy*.
E. Mellanby, *Pharmacology and Materia Medica : Practical Pharmacy*.
F. A. Hocking, *Pharmacology and Materia Medica : Practical Pharmacy*.
P. Fildes, *Pathology*.
L. W. Rajchman, *Pathology*.
H. M. Turnbull " "
Russell Howard " "
P. N. Panton " "
H. L. Tidy " "
P. Fildes, *Bacteriology*.
L. W. Rajchman, *Bacteriology*.
G. B. Bartlett, *Pathological Histology*.
W. W. Woods " "
W. J. Hadley, *Morbid Anatomy*.
O. Leyton " "

Lecturers—Continued :

T. Thompson, *Morbid Anatomy*.
C. H. Miller " "
F. J. Smith, *Forensic Medicine*.
R. Hutchinson, *General Therapeutics*.
T. H. Openshaw, *Orthopedic Surgery*.
F. Kidd, *Genito-Urinary Surgery*.
A. B. Roxburgh, *Ophthalmology*.
H. Tod, *Otology*.
F. F. Muecke, *Otology*.
H. Lambert Laek, *Laryngology*.
Norman Patterson " "
J. H. Sequeira, *Dermatology*.
H. Chapman, *Dental Surgery*.
Sir F. M. Farmer, *Dental Surgery*.
G. Northeroft " "
G. P. Pollitt " "
E. Sprawson " "
W. Thew " "
R. Hutchinson, *Foods and Diets*.
J. K. Will, *Psychological Medicine*.
C. W. Daniels, *Tropical Medicine*.
S. Gilbert Scott, *Radiography and Radiotherapeutics*.
R. S. Woods, *Therapeutic Electricity*.
R. Hutchinson, *Discuses of Children*.
F. Warner, *Neuroses and Psychoses of Children*.
H. Candy, *Chemistry*.
A. H. Fison, *Physics*.
G. P. Mudge, *Biology*.
J. T. Cunningham, *Biology*.
Sir F. M. Farmer, *Dental Surgery and Pathology*.
H. Northeroft, *Operative Dental Surgery*.
W. Thew, *Dental Prosthesis*.
G. Paton Pollitt, *Operative Dental Prosthesis*.
H. Chapman, *Odonto-prosopic Orthopedics*.
E. Sprawson, *Dental Histology*.
O. Grünbaum, *Dental Materia Medica*.
H. Candy, *Dental Metallurgy*.
R. J. P. Williams, *Dental Anesthetics*.

Library of Medical works in College.

Museums.—Anatomical, Pathological, Materia Medica.

Post-Graduate Courses.—Surgery for F.R.C.S. Examination, etc. Revision Courses in Clinical Medicine, Surgery, and Obstetrics.

QUEEN CHARLOTTE'S LYING-IN HOSPITAL AND MIDWIFERY TRAINING SCHOOL, Marylebone Road, London, N.W. (1752.)

Sessions : All the year round.

Students : Six students and post-graduates at a time.

OFFICIAL.

Secretary.—A. Watts.

21 Honorary Medical Officers.

ROYAL LONDON OPHTHALMIC HOSPITAL, City Road, E.C. 1. (1804.)

Secretary Superintendent.—Robert J. Bland.

PROFESSORS.

Physicians :

James Taylor.

Gordon M. Holmes.

Surgeons :

E. Treacher Collins.

W. T. Holmes Spicer.

Percy Flemming.

Surgeons—Continued :

J. H. Fisher.

J. H. Parsons.

Claud Worth.

Maleom L. Hepburn.

A. C. Hudson.

4 Assistant Surgeons.

CHARING CROSS HOSPITAL MEDICAL SCHOOL, 62-65, Chandos Street, W.C. (1819.)

Terms : Three a year.

Students : 200.

OFFICIALS.

Dean.—W. J. Fenton, M.D., F.R.C.P.

Vice-Dean.—N. C. Lake, M.D., M.S., D.Se., F.R.C.S.

Secretary.—Frank Noakes.

LECTURERS.

W. W. C. Topley, *General Pathology and Morbid Anatomy.*

A. B. Rosher, *Pathological Laboratory and Morbid Histology.*

H. B. Weir, *Special Pathology and Post-Mortems.*

G. Holmes, *Neuro-Pathology and Practical Medicine.*

G. S. Wilson, *Bacteriology and Clinical Pathology.*

W. S. Fenwick, *Surgical Pathology.*

C. Lockyer, *Gynecological Pathology.*

J. M. H. MacLeod, *Pathology of the Skin.*

D. Forsyth, *Therapeutics.*

H. F. Morley, *Toxicology.*

W. J. R. Simpson, *Hygiene and Public Health.*

Sir J. Galloway, *General Medicine.*

W. Hunter " "

W. T. Fenton " "

G. Holmes " "

W. C. Bosanquet, *Clinical Medicine.*

E. D. Macnamara, *Psychological Medicine.*

Sir P. Manson, *Tropical Diseases.*

Sir J. Cantlie " "

W. I. Bruce, *Electrical and X-Rays.*

W. A. Brend, *Medical Jurisprudence.*

Sir H. F. Waterhouse, *General Surgery.*

Sir H. F. Waterhouse, *Clinical Surgery.*

C. Gibbs, *Clinical Surgery.*

H. S. Clogg " "

P. Daniel, *Operative Surgery.*

N. C. Lake, *Surgical Anatomy.*

E. B. Waggett, *Nose, Throat, and Ear.*

(Vacant), *Orthopedic Surgery.*

B. E. Potter, *Anesthetics.*

T. W. Eden, *Systematic Midwifery.*

C. Lockyer, *Diseases of Women.*

C. Lockyer, *Practical Midwifery.*

J. F. Colyer, *Dental Surgery.*

6 Tutors, 3 Demonstrators.

Post-Graduate Courses.—Special Post-Graduate Courses are arranged three times a year.

Institutes and Museums.—

(a) An Institute of Pathology for teaching and research, with a staff of five full-time workers. Recently established in connection with this Medical School.

(b) A Museum, containing upwards of 4,000 specimens, has been specially arranged for teaching purposes. It includes over 800 Gynecological specimens, the "Cuthbert Lockyer" collection.

Library.—A Library, containing about 4,000 volumes, is available for the use of the students.

AFFILIATED INSTITUTIONS.

Royal Westminster Ophthalmic Hospital.

UNIVERSITY COLLEGE HOSPITAL MEDICAL SCHOOL.

OFFICIALS.

Dean.—G. Blacker.

Vice-Dean.—A. M. H. Gray.

Acting Secretary.—G. E. Adams.

TEACHING STAFF.

T. R. Elliott, <i>Director Department of Medicine.</i>	H. Tilley, <i>Diseases of Ear, Nose, and Throat.</i>
J. W. McNee and F. M. R. Walshe, <i>Assistants.</i>	G. S. Hett, <i>Diseases of Ear, Nose, and Throat.</i>
Sir J. Rose Bradford, <i>Medicine.</i>	H. J. Relph, <i>Dentistry.</i> [Throat.]
S. Martin, <i>Medicine.</i>	H. J. Shirley, <i>Anesthetics.</i>
H. B. Shaw, "	A. B. Kingsford, "
F. J. Poynton, "	F. S. Rood, "
C. Bolton, "	H. L. Tasker, "
T. Lewis, "	R. W. A. Salmond, <i>Radiology.</i>
A. M. H. Gray, <i>Skin Diseases.</i>	H. R. Spencer, <i>Obstetrics.</i>
B. Hart, <i>Mental Diseases.</i> [Surgery.]	G. Blacker, <i>Obstetrics.</i>
C. C. Choyce, <i>Director Department of</i>	A. E. Boycott, <i>Director Department of Pathology.</i>
E. K. Martin and F. J. F. Barrington, <i>Assistants.</i>	T. W. P. Lawrence, <i>Morbid Anatomy.</i>
R. Johnson, <i>Surgery.</i>	F. H. Teale, <i>Bacteriology.</i>
W. Trotter, "	D. Embleton, "
G. Williams, "	G. W. Goodhart, <i>Clinical Pathology.</i>
P. Flemming, <i>Ophthalmic Surgery.</i>	F. J. Poynton, <i>Forensic Medicine.</i>
J. H. Parsons, " "	H. R. Kenwood, <i>Hygiene and Public Health.</i>

UNIVERSITY COLLEGE HOSPITAL DENTAL SCHOOL.

Great Portland and Devonshire Streets, W. (1861.)

Sessions: Two per year.

OFFICIALS.

Dean.—Sidney Spokes, J.P., M.R.C.S., L.D.S.

Clerk.—M. P. Collings.

LECTURERS.

J. W. Pare, <i>Dental Anatomy and Physiology.</i>	S. Holloway Olver, <i>Dental Mechanic.</i>
H. J. Relph, <i>Dental Surgery and Pathology.</i>	R. E. Slade, <i>Dental Metallurgy.</i>
A. E. Relph, <i>Operative Dental Surgery.</i>	F. R. Smyth, <i>Dental Materia Medica.</i>
	Kenneth W. Goadby, <i>Bacteriology of the Mouth.</i>

4 Demonstrators.

KING'S COLLEGE HOSPITAL MEDICAL SCHOOL (University of London), Denmark Hill, London, S.E. 5. (1830.)

Terms: Three per year.

Students: 160.

OFFICIALS.

Chancellor.—(Of University of London.)

Vice-Chancellor.—(Of University of London.)

Dean.—H. Willoughby Lyle, M.D., B.S., F.R.C.S.

Secretary.—Sidney C. Ranner, M.A.

Degrees and Hoods.—Medical Degrees of Universities of Cambridge, London, and Oxford.

PROFESSORS.

Professors :

- R. H. Steen, *Psychological Medicine*.
 G. F. Still, *Diseases of Children*.
 Sir St. Clair Thomson, *Laryngology and Rhinology*.
 A. Whitfield, *Dermatology*.
 W. J. R. Simpson, *Hygiene*.

Lecturers :

- C. W. M. Hope, *Laryngology and Rhinology*. [Medicine.
 N. Dalton, *Principles and Practice of*
 R. Crawford, *Clinical Medicine*.
 W. A. Turner, *Nervous Diseases*.
 S. A. K. Wilson ,, ,,
 F. W. Tunnicliffe, *Clinical Medicine and Therapeutics*.
 J. C. Briscoe, *Clinical Medicine*.
 H. W. Wiltshire ,, ,,
 A. C. D. Firth ,, ,,
 R. S. Frew, *Diseases of Children*.
 F. F. Burghard, *Principles and Practice of Surgery*.

Lecturers—Continued :

- Sir G. L. Cheate, *Principles and Practice of Surgery*.
 T. P. Legg, *Clinical Surgery*.
 A. Edmunds ,, ,,
 J. W. T. Walker, *Urology*.
 J. Everidge ,, ,,
 H. A. T. Fairbank, *Orthopedic Surgery*.
 C. J. Marshall, *Surgical Applied Anatomy and Orthopedic Surgery*.
 H. J. M. Playfair, *Obstetric and Gynecological Surgery*. [Surgery.
 W. Gilliatt, *Obstetric and Gynecological*
 L. V. Cargill, *Ophthalmic Surgery*.
 H. W. Lyle ,, ,,
 A. H. Cheate, *Aural Surgery*.
 G. J. Jenkins ,, ,,
 C. E. Wallis, *Dental Surgery*.
 J. F. W. Silk, *Anesthetics*.
 C. Hughes ,, ,,
 E. Playfair ,, ,,
 W. d'Este Emery, *Pathology*.

Post-Graduate Courses.—Arranged in connection with the Fellowship of Medicine.

Museum.—Pathological Museum.

Library.—Medical School Library, about 5,000 volumes. Librarian : S. C. Ranner, M.A.

WESTMINSTER HOSPITAL MEDICAL SCHOOL, Westminster, S.W. 1. (1834.)

Sessions : Two per year.

OFFICIALS.

- Dean.—D. de Souza.
 Sub-Dean.—B. Hicks.
 Secretary.—S. M. Quennell.

LECTURERS.

- Spencer, *Clinical Surgery*.
 Tubby ,, ,,
 Turner ,, ,,
 Robinson, *Clinical Gynecology*.
 Sir J. P. Stewart, *Medicine*.
 C. Jones, *Medicine*.
 D. de Souza ,,
 K. Wilson ,,
 H. Carlill ,,
 H. J. Norman, *Medicine (Mental Diseases)*.
 S. E. Dore, *Medicine (Skin Diseases)*.
 Lt.-Col. Pratt, *Medicine (Tropical Diseases)*.
 G. B. James, *Ophthalmic Surgery*.
 R. Carling, *Orthopedic Surgery*.
 De Santi, *Surgery of the Throat, Nose, and Ear*.

- Glassington, *Dental Surgery*.
 V. Orr, *Anesthetics*.
 A. Evans, *Operative Surgery*.
 R. Carling, *Surgical Pathology*.
 R. Farrant, *Surgical Anatomy*.
 G. H. D. Robinson, *Midwifery and Diseases of Women*.
 S. Dodd, *Practical Midwifery*.
 J. A. B. Hicks, *General Pathology and Morbid Anatomy, Morbid Histology, Post-mortem Demonstrations, Medical Pathology*.
 J. M. Burnford, *Forsenic Medicine*.
 S. M. Copeman, *Public Health*.
 R. R. Elworthy, *Bacteriology*.
 H. W. Hake, *Chemistry*.
 Bosworth, *Physics*.
 S. Scales, *Microscopy*.

4 Demonstrators, 1 Assistant.

Institute.—Bland Sutton Institute of Pathology. Director : C. H. Browning, M.D., Ch.B., D.P.H.

THE MIDDLESEX HOSPITAL MEDICAL SCHOOL, Mortimer Street, W. 1. (1835.)

Sessions : Three per year.

Students : 250.

OFFICIAL.

Dean.—A. E. Webb-Johnson, C.B.E., D.S.O., F.R.C.S.

LECTURERS.

W. E. Wynter, *Principles and Practice of Medicine*.
 A. F. Voelker, *Principles and Practice of Medicine*.
 J. Murray, *Principles and Practice of Surgery*.
 T. H. Kellock, *Principles and Practice of Surgery*.
 C. E. Lakin, *Practical Medicine*.
 H. MacCormac, " "
 E. A. Cockayne, " "
 G. E. S. Ward, " "
 C. H. Browning, *General Pathology and Bacteriology*.
 E. L. Kennaway, *Pathological Histology, Morbid Anatomy, Chemical and Clinical Pathology*.
 L. H. D. Thornton, *Pathological Histology, Morbid Anatomy, Chemical and Clinical Pathology*.
 Charles Porter, *Hygiene, Public Health, and Sanitary Law*.
 W. Sampson Handley, *Surgical Pathology*.
 A. E. Webb-Johnson, *Practical Surgery*.
 C. H. S. Webb, *Operative Surgery*.
 Comyns Berkeley, *Midwifery*.
 Victor Bonney, *Practical Midwifery*.
 A. M. Kellas, *Toxicology*.

James Chambers, *Psychiatry*.
 E. A. Cockayne, *Pharmacology and Therapeutics*.
 W. Pasteur, *Clinical Medicine*.
 W. E. Wynter, " "
 A. F. Voelker, " "
 R. A. Young, " "
 Sir John Bland-Sutton, *Clinical Surgery*.
 J. Murray, *Clinical Surgery*. [gery].
 T. H. Kellock, *Clinical Surgery*.
 W. Sampson Handley, *Clinical Surgery*.
 Comyns Berkeley, *Clinical Gynecology*.
 J. J. Pringle, *Dermatology*.
 H. Campbell Thomson, *Neurology*.
 Arnold Lawson, *Ophthalmology*.
 Somerville Hastings, *Laryngology and Otology*.
 H. Watson Turner, *Odontology*.
 Thomas Yeates, *Anatomy (Descriptive, Practical, and Regional)*.
 Gordon Taylor, *Applied Anatomy*.
 J. Strickland Goodall, *Physiology (Systematics, Chemical, and Practical), Biology, Histology, and Practical Histology*.
 A. M. Kellas, *Chemistry, (Inorganic, Organic, and Practical)*.
 Sidney Russ, *Physics (Theoretical and Practical)*.

ST. MARY'S HOSPITAL MEDICAL SCHOOL, Paddington. (1852.)

Terms : Two a year.

Students : 180.

OFFICIALS.

Dean.—Sir John Broadbent, Bart., M.A., M.D., F.R.C.P.
 Secretary.—B. E. Matthews, B.A.

PROFESSORS.

Professors :

J. E. Frazer, *Anatomy*.
 Sir Almoth Wright, *Experimental Pathology*.

Reader :

H. E. Roaf, *Physiology*.

Lecturers :

W. Harris, *Clinical Medicine*.
 J. E. Lane, *Clinical Surgery*.
 W. Harris (Neurology), *Medicine*.
 Sir John Broadbent, *Medicine*.
 W. H. Willeox, " "
 V. W. Low, *Surgery*.
 W. H. Clayton-Greene, *Surgery*.
 D. C. L. Fitzwilliams, *Practical and Operative Surgery*.

Lecturers—Continued :

V. Z. Cope, *Practical and Operative Surgery*.
 B. H. Spilsbury, *Pathology*.
 E. H. Kettle, " "
 J. Freeman, *Bacteriology*.
 A. Fleming, " "
 W. H. Willeox, *Chemical Pathology*.
 T. G. Stevens, *Midwifery and Gynecology*.
 F. S. Langmead, *Pharmacology and Therapeutics*.
 W. H. Willeox, *Forensic Medicine*.
 J. E. Frazer, *Anatomy*.
 H. E. Roaf, *Physiology and Histology*.
 W. S. Denham, *Chemistry*.
 W. H. Leigh-Sharpe, *Biology*.

Lecturers—Continued :

W. H. White, *Physics*.
 J. A. H. Brincker, *Hygiene and Public*
 R. H. Cole, *Mental Diseases*. [*Health*.
 L. J. Paton, *Diseases of the Eye*.
 F. A. Juler " "
 K. A. Leacs, *Diseases of the Ear, Throat,*
 and Nose.

Lecturers—Continued :

C. I. Graham, *Diseases of the Ear,*
 Throat, and Nose.
 E. G. Little, *Diseases of the Skin*.
 W. H. Dolamore, *Dental Surgery*.
 J. H. Chaldecott, *Anesthetics*.
 G. R. Phillips "
 G. H. Orton, *X-Ray Department*.

8 Tutors and Demonstrators.

Post-Graduate Courses for Primary and Final Fellowship examination of the Royal College of Surgeons.

Museum.—Pathological Museum.

Library.—Library of Medical Works, about 3,000 volumes. *Hon. Librarian :* W. H. Clayton-Greene. *Librarian :* F. Nanfan.

THE HOSPITAL FOR SICK CHILDREN, Great Ormond Street, W.C. 1. (1852.)

Terms : Three per year.

Students : 200.

OFFICIALS.

President.—H.R.H. The Prince of Wales.

Dean.—G. E. Waugh, F.R.C.S.

Secretary.—E. S. Darmady.

MEDICAL OFFICERS.

A. F. Voelcker, *Physician*.
 W. S. Colman "
 G. F. Still "
 F. J. Poynton "
 Robert Hutchison, *Physician to Out-*
 Patients.
 J. H. Thursfield, *Physician to Out-*
 Patients.
 Theodor Thompson, *Physician to Out-*
 Patients.
 F. Langmead, *Physician to Out-Patients*.
 Robert S. Frew, *Physician to Out-*
 Patients.
 George E. Waugh, *Surgeon*.
 H. A. T. Fairbank, *Surgeon*.
 O. L. Addison, *Surgeon to Out-Patients*.

H. Tyrrell Gray, *Surgeon to Out-*
 Patients.
 L. E. Barrington-Ward, *Surgeon to*
 Out-Patients.
 W. H. McMullen, *Ophthalmic Surgeon*.
 W. Ironside Bruce, *Radiographer*.
 George F. Waugh, *Surgeon to the*
 Aural Department.
 A. T. Pitts, *Dental Surgeon*.
 D. Nabarro, *Bacteriologist*.
 T. Graham Scott, *Anesthetist*.
 H. S. Sington "
 C. J. Loosely "
 H. B. Wilson "
 George R. Pirie, *Pathologist*.
 J. Wieliffe Peck, *Pharmacist*.

Post-Graduate Courses.—Advanced courses held at regular intervals throughout the year.

Museum.—Pathological Museum richly endowed with specimens illustrative of diseases in children. *Curator :* J. H. Thursfield, M.D.

NATIONAL HOSPITAL FOR THE PARALYSED AND EPILEPTIC, Queen Square, London, W.C. (1859.)

Dean.—C. M. Hinds Howell, M.D., F.R.C.P.

Professors.—Medical and Surgical Staff of the Hospital.

Post-Graduate Courses.—These are given about three times yearly.

LONDON (ROYAL FREE HOSPITAL) SCHOOL OF MEDICINE FOR WOMEN, Hunter Street, Brunswick Square, London, W.C. (1874.)

Terms : Three a year.

Students : 496.


OFFICIALS.

Dean.—Miss L. B. Aldrich-Blake, M.D., M.S.

Honorary Secretary.—Miss M. Thorne, O.B.E., M.D., F.R.C.S.I.

Warden and Secretary.—Miss L. M. Brooks.

Assistant Secretary.—Miss D. M. Baines.

Registrar.—Miss E. M. Jukes, B.A. 

LECTURERS.

J. W. Carr, <i>Principles and Practice of Medicine.</i>	J. G. French, <i>Diseases of the Nose, Throat, and Ear.</i>
A. G. Phear, <i>Clinical Medicine.</i>	J. G. P. Phillips, <i>Mental Pathology.</i>
W. P. S. Branson, <i>Clinical Medicine.</i>	C. W. Daniels, <i>Tropical Medicine.</i>
P. W. Saunders, " "	M. D. Berry (Mrs.), <i>Anesthetics.</i>
L. B. Aldrich-Blake (Miss), <i>Principles and Practice of Surgery, and Clinical</i>	B. Sprott (Mrs.) " "
J. Berry, <i>Clinical Surgery.</i> [Surgery.]	E. U. Williams, <i>Electro-Radiography.</i>
J. Cunning " "	L. F. Harwood (Mrs.), <i>Dentistry.</i>
C. A. Pannett " "	M. F. L. Keene (Mrs.), <i>Anatomy.</i>
C. A. Joll " "	W. Cullis (Miss), <i>Physiology.</i>
C. A. Pannett, <i>Operative Surgery.</i>	E. Hewer (Miss) " "
E. Vaughan-Sawyer (Mrs.), <i>Gynecology.</i>	M. Bond (Miss) " "
Lady Barrett, <i>Obstetrics and Operative Midwifery.</i>	F. Ransom, <i>Pharmacology.</i> [macy.]
P. W. Saunders, <i>Pathology.</i>	M. Buchanan (Miss), <i>Practical Pharmacy.</i>
H. Mackay (Miss) " "	J. A. Gardner, <i>Chemistry.</i>
A. G. R. Foulerton, <i>Hygiene and Public Health.</i>	S. T. Widdows (Miss), <i>Chemistry.</i>
M. L. Hepburn, <i>Diseases of the Eye.</i>	M. D. Waller (Miss), <i>Physics.</i>
	G. P. Mudge, <i>Biology.</i>
	N. Laycock (Miss) " "
	18 Demonstrators, 3 Tutors.

Post-Graduate Courses.—Post-Graduate Course of Instruction in the Treatment of Venereal Diseases, May and September. Post-Graduate Course in Operative Surgery, May.

Library.—Medical Library containing 4,500 volumes. *Librarian* : Margaret Reed.

Museums.—

Materia Medica Museum.

Pathological Museum.

Curator : Margaret R. Abel.

ROYAL DENTAL HOSPITAL OF LONDON, Leicester Square, W.C. 2.

Sessions : Two per year.

OFFICIALS.

Dean.—W. H. Dolamore, L.R.C.P., M.R.C.S., L.D.S.

Treasurer.—R. McKay.

LECTURERS.

P. A. E. Richards, <i>Chemistry and Dental Metallurgy.</i>	J. G. Turner, <i>Dental Surgery.</i>
D. Gabell, <i>Dental Mechanics.</i>	F. Coleman, <i>Materia Medica.</i>
H. W. M. Tims, <i>Dental Anatomy.</i>	W. W. James, <i>Operative Dental Surgery.</i>
	H. Hilliard, <i>Anesthetics.</i>

1 Tutor, 4 Clinical Assistants, 9 Demonstrators.

THE LISTER INSTITUTE OF PREVENTIVE MEDICINE, Chelsea Garden, Chelsea Bridge Road, S.W. (1890.)

OFFICERS.

Chairman of the Governing Body.—Major-General Sir David Bruce, K.C.B., M.D., F.R.S.

Director of the Scientific Staff.—Dr. Charles J. Martin, M.B., D.Sc., F.R.S.

Assistant Secretary.—G. Cooper.

Objects.—(1) To investigate the means of preventing and curing the various diseases of men and animals, and to provide a place where researches may be carried on for this purpose.

(2) To provide instruction in methods of research in preventive medicine to medical officers of health, medical practitioners, veterinary surgeons, and advanced students.

(3) To prepare and to supply to those requiring them such special, protective, and curative materials, as have already been found, or shall in future be found, of value.

Publications.—A large number of scientific papers are published annually.

THE ROYAL INSTITUTE OF PUBLIC HEALTH, 37, Russell Square, London, W.C.
(1886.)

OFFICIALS.

Patron.—His Majesty King George V.
Vice-Patron.—H.R.H. The Prince of Wales.
Patroness.—Her Majesty the Queen.

President.—The Right Hon. The Lord Leverbuhle.
Principal.—Professor Sir William R. Smith, M.D., D.Sc., LL.D., F.R.S.Ed.
Hon. Treasurer.—John Blair MacAfee, LL.B.
Hon. Secretaries.—Professor E. D. Hope, M.D., D.Sc. T. N. Kelynaek, M.D., M.R.C.P.

The Institute was founded to provide the advantages of a powerful body for promoting the interests of those engaged in Official Public Health work at home and abroad, or in the Public Services, and also to aid the Theoretical and Practical investigation and study of all branches of Public Health Medicine. In pursuance of these objects the Council have established fully equipped Bacteriological, Serological, and Chemical Laboratories.

LONDON SCHOOL OF TROPICAL MEDICINE, Endsleigh Gardens, N.W.2. (1899.)

The School arranges and equips Research Expeditions which have been carried out in Asia, East and West Africa, Central Africa, W. Indies, etc., etc.

Sessions : Three annually.
Students : 2,016 Post-Graduates, since foundation.

OFFICIALS.

Dean.—Sir R. Havelock Charles, G.C.V.O.
Secretary.—P. J. Michelli, Esq., C.M.G.

Degrees conferred.—A Certificate is granted by the School after examination, and the course is so arranged as to equip students for the Diploma of Tropical Medicine and Hygiene, Cambridge (D.T.M. & H.), and for the Diploma in the Diseases and Hygiene of the Tropics (D.T.M.Eng.).

LECTURERS.

Sir P. Manson, G.C., M.G.
C. W. Daniels.
G. C. Low.
Sir J. Cantlie, K.B.E.
A. Castellani, C.M.G.
Col. J. J. Pratt.
R. T. Hewlett.
W. J. Simpson.
W. M. Willoughby.
L. W. Sambon.
J. M. H. MacLeod.
Col. R. H. Elliot.

P. H. Manson-Baker.
T. H. Vaughan.
G. C. Low, *Pathologist.*
Col. A. Aleock, C.I.E., *Director of Entomology.*
F. W. O'Connor, *Assistant Medical Entomologist.*
J. G. Thomson, *Director of Protozoology.*
Professor R. T. Leiper, *Director of Helminthology.*
H. B. Newham, C.M.G., *Director of Tropical Pathology.*

IMPERIAL CANCER RESEARCH FUND, EXAMINATION HALL,
8-11, Queen Square, Bloomsbury, W.C. 1. (1902.)

OFFICERS.

President.—The Duke of Bedford, K.G., K.B.E.
Director.—J. A. Murray, M.D.
Secretary.—F. G. Hallett, O.B.E.

**NAVAL MEDICAL SCHOOL OF THE ROYAL NAVAL COLLEGE,
Greenwich. (1912.)**

The accommodation includes all the necessary rooms and apparatus for the study and teaching of General and Naval Hygiene, Clinical Pathology, Tropical Medicine, and Micro-Biology. It is associated with the Seamen's Hospital, where wards are set apart for cases of tropical diseases under the care of the Professor of Pathology, and from which clinical lectures are given as requisite. The average number of students is 80 per annum. The school being only for officers of the Royal Navy, educational activities ceased with the outbreak of war, but will shortly be resumed.

STAFF.

Surgeon-Capt. P. W. Bassett-Smith, *Clinical Pathology.*
R. C. Frederick, *Hygiene.*

ROYAL SANITARY INSTITUTE, Parkes Museum, 90, Buckingham Palace Road, S.W. (1876.)

Objects.—To promote the advancement of Sanitary Science in all or any of its branches, and to diffuse knowledge relating thereto.

Director and Secretary.—E. White Wallis, F.S.S.

Parkes Museum contains collections of appliances relating to health and comfort. (Free to the public.)

Library of standard works on Sanitary Science, and a collection of Reports of Medical Officers of Health over the whole country.

Publication.—Journal (bi-monthly).

ROYAL COLLEGE OF VETERINARY SURGEONS, 10, Red Lion Square, W.C. 1.

OFFICIALS.

President.—J. McKinna, F.R.C.V.S.
Secretary and Registrar.—F. Bullock, F.C.I.S.

THE BRITISH MUSEUM, Bloomsbury, W.C. 1. (1753.)

OFFICIALS.

Director and Principal Librarian.—Sir Frederic George Kenyon, K.C.B., P.B.A. Litt.D.

Assistant Secretary.—A. R. Dryhurst, I.S.O.

Clerk in Charge of Accounts.—C. P. Cooke.

Assistant (1st Class).—E. B. Nicholson.

Minor Staff Officers.—J. Knowles, J. F. Isaac.

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GEOLOGICAL SOCIETY OF LONDON, Burlington House, Piccadilly, W. 1. (1807.)

OFFICIALS.

President.—G. W. Lamplugh, F.R.S.

Secretaries.—Dr. H. H. Thomas; Dr. H. Lapworth.

Foreign Secretary.—Sir Archibald Geike, O.M., K.C.B., F.R.S.

Treasurer.—Dr. J. Vincent Elsdon.

Permanent Secretary.—L. L. Belinfante, M.Sc.

Membership, 1,250.

Library contains 35,000 books. *Librarian*: A. Greig. *Clerk*: M. St. J. Hope.

Publications.—

The Quarterly Journal (quarterly).

Geological Literature.

ROYAL ASTRONOMICAL SOCIETY, Burlington House, Piccadilly, W. 1. (1820.)

OFFICIALS.

President.—A. Fowler, F.R.S.

Vice-Presidents.—

Sir F. W. Dyson, M.A., LL.D., F.R.S.

J. W. L. Glaisher, Sc.D., LL.D., F.R.S.

Major P. A. MacMahon, D.Sc., Sc.D., LL.D., F.R.S.

H. F. Newall, M.A., D.Sc., F.R.S.

Treasurer.—E. B. Knobel.

Secretaries.—

A. C. D. Crommelin, B.A., D.Sc.

Rev. T. E. R. Phillips, M.A.

Foreign Secretary.—H. H. Turner, D.Sc., D.C.L., F.R.S.

Publications.—During past year Monthly Notices, vol. 79.

BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, Burlington House, Piccadilly, W. 1. (1831.)

The objects of the Association are "To give a stronger impulse and a more systematic direction to scientific enquiry; to promote the intercourse of those who cultivate Science in different parts of the British Empire with one another and with foreign philosophers; to obtain more general attention for the objects of Science and the removal of any disadvantages of a public kind which impede its progress."

President.—The Hon. Sir C. A. Parsons, K.C.B., M.A., LL.D., D.Sc., F.R.S.

Treasurer.—J. Perry, D.Sc., LL.D., F.R.S.

General Secretaries.—

W. A. Herdman, D.Sc., LL.D., F.R.S.

H. H. Turner, D.Sc., D.C.L., F.R.S.

Assistant Secretary.—O. J. R. Howarth, M.A.

The Annual Meeting, held in one of the great provincial centres of Britain or overseas, usually lasts for eight days.

ROYAL ASIATIC SOCIETY, 74, Grosvenor Street, W. (1823.)

OFFICIALS.

President.—The Right Hon. The Lord Reay, K.T., P.C., G.C.S.T., G.C.I.E., etc.*Secretary.*—Miss Eleanor Hull.**Publications.**—

The Journal (published quarterly), 12s. per number, or 30s. Subscriptions in advance (free to members).

Oriental Translations Fund. Vols. I. to XXIV.

Asiatic Society Monographs. Vols. I. to XVI.

Prize Publications Fund. Vols. I. to IV.

THE ZOOLOGICAL SOCIETY OF LONDON, Regent's Park, N.W. 8. (1826.)

OFFICIALS.

President.—H.G. The Duke of Bedford, K.G., F.R.S.*Secretary.*—P. Chalmers Mitchell, C.B.E., M.A., D.Sc., LL.D., F.R.S.*Superintendent and Curator of Mammals.*—R. I. Pocock, F.R.S.*Curator of Birds.*—D. Seth-Smith.*Curator of Reptiles.*—E. G. Boulenger.*Director of the Prosectorium.*—R. T. Leiper, M.D., D.Sc.*Anatomist.*—C. F. Sonntag, M.D.*Pathologist.*—N. S. Lucas, M.B., Ch.B.*Parasitologist.*—G. M. Vevers, M.R.C.S., L.R.C.P.**Publications.**—

Proceedings of the Zoological Society of London, 8 vols.

Transactions of the Zoological Society of London.

The Zoological Record (annual volume).

ROYAL GEOGRAPHICAL SOCIETY, Lowther Lodge, Kensington Gore, S.W. 7.

Founded 1830 for the Advancement of Geographical Science.

The object of the Society being the promotion and diffusion of geographical knowledge, it has always welcomed to its fellowship those anxious to further this object by their interest and support, as well as those able to take a more active part in the work of discovery and exploration.

Patron.—His Majesty the King.*Vice-Patron.*—H.R.H. The Prince of Wales, K.G., F.R.S.

OFFICIALS.

Honorary President.—Field-Marshal H.R.H. the Duke of Connaught, K.G., G.C.M.G.

THE COUNCIL.

President.—Lieut.-Col. Sir Francis Younghusband, K.C.S.I., K.C.I.E.*Vice-Presidents.*—

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The Right Hon. Earl Curzon of Kedleston, K.G., G.C.S.I., G.C.I.E., F.R.S.

Henry Wilson Fox, M.P.

Douglas W. Freshfield, D.C.L.

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Treasurers.—The Lord Belhaven and Stenton; Henry Yates Thompson.*Honorary Secretaries.*—A. P. Maudslay, D.Sc.; Doulgas Carruthers.*Foreign Secretary.*—The Right Hon. Sir George Taubman Goldie, K.C.M.G., F.R.S., D.C.L.

21 Members of Council.

Secretary and Editor of Publications.—A. R. Hinks, F.R.S.Very large **Library, Map Collections, and Museums.** *Librarian:* Edward Heawood.
Map Curator: E. A. Reeves.**Publications.**—The Geographical Journal (monthly), and special publications from time to time.

BRITISH MEDICAL ASSOCIATION, 429, Strand, W.C. 2. (1832.)

OFFICIALS.

President.—Sir T. C. Allbutt.
Chairman of Representative Meetings.—Dr. T. W. H. Garstang.
Chairman of Council.—Dr. J. A. Macdonald.
Treasurer.—Dr. G. E. Haslip.
Editor British Medical Journal.—Dr. Dawson Williams.
Medical Secretary.—Dr. A. Cox.
Financial Secretary and Business Manager.—W. E. Warne.

THE ENTOMOLOGICAL SOCIETY OF LONDON, 11, Chandos Street, Cavendish Square, W. (1833.)

OFFICIALS.

President.—Commander James J. Walker, M.A., R.N., F.Z.S.
Treasurer.—W. G. Sheldon, F.Z.S.
Secretaries.—
Rev. George Wheeler, M.A., F.Z.S.
S. A. Neave, M.A., D.Sc., F.Z.S.
Librarian.—C. G. Champion, A.L.S., F.Z.S.

THE ROYAL STATISTICAL SOCIETY, 9, Adelphi Terrace, Strand, W.C. 2. (1834.)

Objects.—Its objects are the collection, discussion, and publication of facts dealing with the complex relations of modern Society in its social, economical, and political aspects, and especially facts which can be stated numerically and arranged in tables.

OFFICIALS.

President.—The Right Hon. Herbert Samuel.
Hon. Secretaries and Editors.—
A. W. Flux, M.A.
T. H. C. Stevenson, C.B.E., M.D.
M. Greenwood, M.R.C.P.
Hon. Foreign Secretary.—Sir R. Henry Rew, K.C.B.

STAFF.

Librarian.—J. A. P. Mackenzie.
Chief Clerk.—L. Catharine Thorburn.

The **Library** consists of about 50,000 volumes and is unique of its kind.

Publications.—Journal (annual).

THE ROYAL NUMISMATIC SOCIETY, 22, Russell Square, W.C. (1836.)

Patron.—His Majesty the King.

OFFICIALS.

President.—Professor C. Oman, M.A., LL.D., F.S.A., F.B.A.
Vice-Presidents.—
Sir A. J. Evans, P.S.A., M.A., D.Litt., Ph.D., F.R.S., F.B.A.
Sir H. H. Howorth, K.C.I.E., F.R.S., F.S.A.
Treasurer.—P. H. Webb.
Secretaries.—
J. Allan, M.A., M.R.A.S.
Lieut.-Col. H. W. Morrieson, R.A., F.S.A.
Foreign Secretary.—G. C. Brooke, B.A.
Librarian.—O. Codrington, M.D., F.S.A., M.R.A.S.

10 Members of the Council.

Publication.—Numismatic Chronicle (quarterly).

ROYAL AGRICULTURAL SOCIETY OF ENGLAND, 16, Bedford Square, W.C. 1.

Founded 1838, as the "English Agricultural Society."

Patron.—His Majesty the King.

OFFICIALS.

President (1920).—H.R.H. Prince of Wales, K.G.*Secretary.*—Thos. McRow.

The Council consists of a President elected annually, 12 Trustees, 12 Vice-Presidents, and 63 ordinary members of Council, representing electoral districts, into 48 of which the United Kingdom is divided for the purpose.

Number of Governors and Members exceeds 11,000.

New Members elected at Monthly Meetings of Council.

Library.—This contains about 13,000 books and 2,000 pamphlets. It has recently been rearranged and a printed catalogue prepared.

Examinations.—In conjunction with the Highland and Agricultural Society of Scotland the Royal Agricultural Society of England has instituted Annual Examinations for the award of National Diplomas in the Science and Practice of Agriculture and of Dairying. The N.D.A. Examination is held in April, and that for the N.D.D. in September.

Consulting Officers.—The Society's Scientific Departments, for the use of Members, are under the control of Dr. J. Augustus Voeleker, M.A., F.I.C. (Consulting Chemist), Professor R. H. Biffen, F.R.S. (Botanist), and Mr. Cecil Warburton, M.A. (Zoologist). The Consulting Veterinary Surgeon is Professor Sir John McFadyean, Principal of the Royal Veterinary College. An annual grant is made to the College, in return for which the Society's Members are entitled to privileges in connection with veterinary matters.

By arrangement with the Dairy Research Institute, University College, Reading, the staff of the Institute undertake special researches in dairy problems for members of the Society.

The Experimental Farm and Pot Culture Station, at Woburn, Bedfordshire, is controlled by the Society. Here investigations are conducted with regard to crops, soils, feeding stuffs, and other agricultural matters. The Director of the Station is Dr. J. A. Voeleker.

The 79th Annual Show of Live Stock, Machinery, Implements, etc., will be held at Darlington from June 29 to July 3, 1920.

Trials of Agriculture Tractors and Ploughs will be held in the autumn of 1920.

Publications.—

Annual Journal.

Text Book "Elements of Agriculture" (now in its 51st thousand), and numerous pamphlets.

Farm Account Books.

Diagrams of Insect Pests, etc.

ROYAL BOTANIC SOCIETY OF LONDON, Royal Botanic Gardens, Regent's Park. (1839.)

OFFICIALS.

President.—The Marquis of Cambridge, G.C.B., G.C.V.O., C.M.G.*Secretary.*—H. W. Woodford, Royal Botanic Gardens, Regent's Park.

The Gardens of the Society in the Inner Circle, Regent's Park, 18 acres in extent, afford a good example of English landscape gardening, and having been laid out as a botanic garden, most of the trees and shrubs are of botanical or horticultural interest. It is a well-known centre of botanical study, possessing collections of tropical, economic, and medicinal plants; a students' garden with the plants arranged in beds according to their natural orders; a meteorological observatory, museum, and lecture-room where botanical lectures are given, and a botanical library. In the large conservatory and smaller greenhouses are many palms and ornamental plants. There is also a special hothouse with a large tank, where the Victoria water-lily—*Nelumbium*—and other water plants are successfully grown.

Publication.—Quarterly Summary.

THE ROYAL MICROSCOPICAL SOCIETY, 20, Hanover Square, W. 1. (1839.)

Objects.—Promotion of Microscopical and Biological Science by the communication, discussion, and publication of observations and discoveries relating to (1) Improvements in the construction and mode of application of the Microscope, and (2) Biological or other subjects of Microscopical Research.

OFFICIALS.

President.—Joseph E. Barnard.

Vice-Presidents.—

Edward Heron-Allen, F.R.S., F.L.S., F.Z.S., F.G.S., M.R.I.A., etc.

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F. Martin Duncan, F.R.P.S.

Robert Paulson, F.L.S.

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Secretaries.—

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Librarian.—P. E. Radley.

Curators.—E. J. Sheppard, C. Singer, M.A., M.D.

Assistant Secretary.—C. J. Lock, M.J.I.

Publications.—The Journal of the Royal Microscopical Society (quarterly).

THE CHEMICAL SOCIETY, Burlington House, Piccadilly, W. 1. (1841.)

The object of the Society is the general advancement of Chemical Science by the discussion and publication of new discoveries and the interchange of valuable information respecting them.

OFFICERS.

President.—Sir James Johnston Dobbie, M.A., D.Sc., F.R.S.

Vice-Presidents who have filled the office of President.—

Henry E. Armstrong, Ph.D., LL.D., F.R.S.

A. Crum Brown, D.Sc., LL.D., F.R.S.

Sir William Crookes, O.M., D.Sc., F.R.S.

Sir James Dewar, M.A., LL.D., F.R.S.

H. Bailey Dixon, C.B.E., M.A., Ph.D., F.R.S.

P. Faraday Frankland, Ph.D., LL.D., F.R.S.

William Odling, M.A., M.B., F.R.S.

William H. Perkin, Sc.D., LL.D., F.R.S.

Sir W. Jackson Pope, K.B.E., M.A., D.Sc., F.R.S.

J. Emerson Reynolds, Sc.D., M.D., F.R.S.

Alexander Scott, M.A., D.Sc., F.R.S.

Sir Edward Thorpe, C.B., LL.D., F.R.S.

Sir William A. Tilden, D.Sc., LL.D., F.R.S.

Vice-Presidents.—

Frederick G. Donnan, M.A., Ph.D., F.R.S.

H. J. Hortsman Fenton, M.A., Sc.D., F.R.S.

Arthur Smithells, G.M.G., F.R.S.

James Walker, D.Sc., LL.D., F.R.S.

W. Palmer Wynne, D.Sc., F.R.S.

Sydney Young, D.Sc., F.R.S.

Treasurer.—M. Onslow Forster, D.Sc., Ph.D., F.R.S.

Hon. Secretaries.—

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James C. Philip, O.B.E., M.A., D.Sc., Ph.D.

Foreign Secretary.—Arthur W. Crossley, C.M.G., D.Sc., F.R.S.

Assistant Secretary.—Stanley E. Carr, F.C.I.S.

Librarian.—F. W. Clifford.

Publications.—

- Memoirs and Proceedings, 1841-1847 (3 vols.).
 Quarterly Journal, 1848-1862 (14 vols.).
 Quarterly Journal, 1848-1862 (single parts).
 Journal, 1862-1895.
 Journal, 1862-1895 (single parts).
 Journal, 1896-1914.
 Journal, 1896-1914 (single parts).
 Journal and Proceedings, 1915 (onwards).
 Journal and Proceedings, 1915 (single parts).
 Proceedings, 1885-1914.
 Proceedings, 1885-1914 (single parts).
 Annual Reports on the Progress of Chemistry, Vol. I. (1904) to present date.
 Collective Index, Vol. I., 1841-1872.
 Collective Index, Vol. II., 1873-1882.
 Collective Index, Vol. III., 1883-1892.
 Collective Index, Vol. IV., 1893-1902.
 Collective Index, Vol. V., 1903-1912.
 Jubilee Volume IX giving history of the Chemical Society from 1841-1891.
 Memorial Lectures, 1893-1900 (out of print).
 Memorial Lectures, Vol. II., 1901-1913.
 Library Catalogue, 1886.
 Library Catalogue, 1903.

ROYAL ANTHROPOLOGICAL INSTITUTE OF GREAT BRITAIN AND IRELAND,
 50, Great Russell Street, W.C. 1.

In 1843 the Ethnological Society was founded, in 1863 the Anthropological Society was founded; and in 1871 the two Societies were united as the Anthropological Institute. Title changed to Royal, 1907.

OFFICIALS.

- President.*—Sir Everard Thurn, K.C.M.G., C.B., K.B.E.
Hon. Secretary.—H. G. Harrison, D.Sc.
Assistant Secretary.—E. W. Martindell, M.A.

Publications.—

- Journal, Vol. XLIX., Parts 1 and 2. Vol. XLVIII., Part 2. Vol. XLIX., Part 1.
 Man (a Journal of Anthropological Science), issued monthly.

ROYAL ARCHEOLOGICAL INSTITUTE OF GREAT BRITAIN AND IRELAND,
 19, Bloomsbury Square, London, W.C. (1843.)

Objects.—The encouragement of intelligent research into British antiquities, and of vigilant care for their preservation.

Patron.—His Most Gracious Majesty the King.

OFFICIALS.

- President.*—Sir H. H. Howorth, K.C.I.E., D.C.L., F.R.S., F.S.A.
Hon. Vice-Presidents.—
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Hon. Editors.—
 R. B. Howorth, B.A., F.S.A. G. D. Harding-Tyler, M.A., F.S.A.
Auditor.—H. Plowman, F.S.A.
Secretary.—G. D. Harding Tyler, M.A., F.S.A.

Publication.—The Archeological Journal (quarterly).

RAY SOCIETY. (1844.)

For the Publication of Works on Natural History.

OFFICIALS.

President.—Prof. W. C. M'Intosh, M.D., LL.D., F.R.S.L. & E., F.L.S.

Secretary.—V. T. Calman, D.Sc., F.L.S., F.Z.S., 1, Mount Park Crescent, Ealing, W. 5.

Treasurer.—S. F. Harmer, Sc.D., F.R.S., F.L.S., F.Z.S.

The object of the Society is to produce for its subscribers such works on Natural History, especially that of the British Isles, as from the expense of their illustration or other causes could not profitably be brought out by a publisher.

Amongst the distinguished naturalists who have contributed monographs to the Society may be mentioned Allman, Bowerbank, Carpenter, Darwin, Flower, Forbes, Günther, Huxley, the late President Lord Avebury, and the present President Professor M'Intosh.

ROYAL METEOROLOGICAL SOCIETY,

70, Victoria Street, Westminster, S.W. 1. (1850.)

OFFICERS.

President.—R. H. Hooker, M.A.

Secretaries.—

Walter William Bryant, B.A., F.R.A.S.; J. Somers Dines, M.A.

Assistant Secretary.—A. Hampton Brown, 70, Victoria St., Westminster, S.W. 1.

Publications.—

The Quarterly Journal.

Hints to Meteorological Observers.

Some Facts about the Weather.

Forms of Clouds.

BRITISH ORNITHOLOGISTS' UNION, c/o Chief Police Office, West India Dock, E. 14. (1858.)

Objects.—The advancement of the Science of Ornithology.

OFFICIALS.

President.—W. E. Clark, LL.D., F.L.S.

Editor.—W. L. Slater, M.A., F.Z.S.

Secretary.—E. C. Stuart Baker, F.Z.S., F.L.S., C.F.A., O.V.

COMMITTEE.

The President (ex-officio).

The Editor of "The Ibis" (ex-officio).

The Secretary (ex-officio).

H. E. Howard, F.Z.S.

G. M. Mathews, F.Z.S.

J. H. Elwes, F.R.S.

Publication.—Ibis (quarterly).

THE LONDON MATHEMATICAL SOCIETY, Burlington House, Piccadilly, W. 1. (1865.)

Founded to further the promotion and extension of Mathematical knowledge.

OFFICERS.

President.—J. E. Campbell, M.A., F.R.S.

Vice-Presidents.—

T. J. P.A. Bromwich, Sc.D., F.R.S.

H. M. Macdonald, M.A., F.R.S.

Major P. A. MacMahon, F.R.S.

Treasurer.—A. E. Western, Sc.D.

Secretaries.—

G. N. Watson, Sc.D., F.R.S.. The University, Edmund Street, Birmingham.

G. H. Hardy, M.A., F.R.S., Trinity College, Cambridge.

Publication.—Proceedings of the London Mathematical Society (four or five times annually).

ROYAL HISTORICAL SOCIETY, 22, Russell Square, W.C. 1. (1868.)*Patron.*—H.M. the King.

OFFICIALS.

President.—Professor Oman, M.P.*Literary Director.*—Hubert Hall, G.F.S.A.*Hon. Treasurer.*—H. R. Tedder.*Hon. Secretary.*—H. E. Malden, M.A.*Assistant Secretary and Librarian.*—Miss M. B. Curran.**Publications.**—

Transactions (annual).

The Camden Series (about two a year).

THE SOCIETY OF PUBLIC ANALYSTS AND OTHER ANALYTICAL CHEMISTS, Burlington House, Piccadilly, W. 1. (1874.)

The objects of the Society are to cultivate the study of Analytical Chemistry by holding periodical meetings, and by the publication of a journal devoted mainly to Analytical Chemistry; to study questions relating to the adulteration of articles of foods, drugs, and commercial products generally, and its detection; and to promote the efficiency and proper administration of the laws relating to the repression of adulteration.

The Meetings are held in the Rooms of the Chemical Society, Burlington House, Piccadilly, London, W. 1.

OFFICERS.

President.—Alfred Smetham, F.I.C.*Vice-Presidents.*—

W. J. A. Butterfield, M.A., F.I.C.

G. N. Huntly, B.Sc., A.R.C.S., F.I.C.

G. R. Thompson, F.I.C.

Hon. Treasurer.—Edward Hinks, B.Sc., F.I.C.*Acting Hon. Treasurer.*—E. W. Voeleker, A.R.S.M., F.I.C.*Hon. Secretaries.*—

P. A. Ellis Richards, F.I.C.

E. Richards Bolton, F.I.C.

20 Members of the Council.

Publication.—The Analyst (monthly). *Editor*: J. L. Baker, F.I.C.**SOCIETY FOR THE PROMOTION OF ROMAN STUDIES**, 19, Bloomsbury Square, W.C. 1.

OFFICERS.

President.—Professor J. S. Reid, D.L., LL.D.*Secretary.*—Miss A. M. Ramsay, M.A.

Objects.—The Society has been formed to effect for the History, Art, and Archeology of Rome what the Hellenic Society has for many years been doing with admirable results for Greece. Its scope embraces the History, Art, and Archeology of Rome, Italy, and the Roman Empire up to about A.D. 700. Medieval and Renaissance Italy have been left to other bodies. In connection with the Hellenic Society the Roman Society maintains at 19, Bloomsbury Square, a joint library of Greek and Roman Archeology and History, a collection of lantern slides and photographs. These are open to members of both Societies.

Publication.—The Journal of Roman Studies, Vol. VIII., Parts 1 and 2.**SOCIETY FOR PSYCHICAL RESEARCH, ENGLAND**, 20, Hanover Square, W. 1. (1882.)

OFFICIALS.

President.—Wm. McDougall, F.R.S., M.Sc., M.B.*Hon. Secretary.*—Mrs. Henry Sidgwick.*Secretary.*—Miss I. Newton.**Publications.**—Proceedings, published irregularly. Current part, Part LXXVII, Vol. XX.

THE RÖNTGEN SOCIETY, temporarily at the McNeal Society of London, 11, Chandos Street, W. (1897.)

OFFICIALS.

President.—G. B. Batten, M.D., C.M.

Hon. Secretaries.—R. Knox, M.D.; S. Russ, D.Sc.

Hon. Treasurer.—G. Pearce.

Publication.—The Journal of the Röntgen Society (quarterly).

THE HISTORICAL ASSOCIATION, 22, Russell Square, W.C.

OFFICIALS.

President.—Prof. C. H. Firth, M.A., LL.D., Litt.D., B.A.

Treasurer.—Miss A. M. Baylay.

Secretary.—Miss M. B. Curran.

Publications.—

History (quarterly).

Annual Bulletin of Historical Literature.

Bibliographies.

THE FARADAY SOCIETY, 10, Essex Street, Strand, W.C. 2. (1903.)

To promote the study of Electrochemistry, Electrometallurgy, Chemical Physics, Metallography, and kindred subjects.

OFFICERS.

President.—Sir R. Hadfield, Bart., F.R.S.

Vice-Presidents.—

W. R. Bousfield, K.C., F.R.S. E. Haanel, Ph.D.

F. G. Donnan, F.R.S. A. K. Huntington.

T. M. Lowry, O.B.E., D.Sc., F.R.S.

Treasurer.—R. L. Mond, M.A., F.R.S.E.

Secretary.—F. S. Spiers.

Publications.—

Transactions (quarterly and half-yearly).

Proceedings (monthly).

THE ASSOCIATION OF ECONOMIC BIOLOGISTS.

The Association was reorganized in its present form in 1914, and its membership is open to all workers in Applied Biology. The annual subscription is one guinea, the entrance fee being half a guinea.

OFFICIALS.

President for 1920.—Sir David Prain, C.M.G., C.I.E., F.R.S.

Treasurer.—J. C. F. Fryer, Pathological Laboratory, Royal Gardens, Kew.

General and Zoological Secretary.—Sheffield A. Neave, M.A., D.Sc., 88, Queen's Gate, London, S.W. 7.

Botanical Secretary.—W. B. Brierley, Institute of Plant Pathology, Rothamsted Experiment Station, Harpenden, Herts.

Publication.—"Annals of Applied Biology." *Editor*: E. E. Green, Way's End, Camberley, Surrey.

THE JOHN INNES HORTICULTURAL INSTITUTION, Mostyn Road, Merton Park, S.W. 19. (1910.)

Director.—W. Bateson, M.A., F.R.S.

The Institution was founded by the will of the late John Innes, proved in 1905, and is governed by a body of Trustees, advised by a Council representative of various public bodies. In pursuance of the purposes of the Institution Studentships of various grades have been awarded to persons selected to undertake investigation of a scientific or practical nature on subjects connected with horticulture, and exhibitions are provided tenable by young men training to become gardeners, who hold a position analogous to that of the "young gardeners" at Kew. Facilities are also given for investigations cognate to the work of the Institution carried out by qualified persons not members of the Staff.

ROYAL BOTANIC GARDENS, Kew.

OFFICIALS.

Head Office.

Director.—Lieut.-Col. Sir D. Prain, C.M.G., C.I.E., M.B., F.R.S.

Assistant Director.—A. W. Hill, Sc.D.

Assistant (1st Class).—J. Aikman.

Executive Office.

Curator of Gardens.—W. Watson.

Assistant Curator of Gardens.—W. J. Bean.

Assistant (1st Class).—W. N. Winn.

Herbarium and Library.

Keeper.—Dr. O. Stapf, F.R.S.

Assistant (1st Class).—R. A. Rolfe, S. A. Skan, T. A. Sprague, C. H. Wright.

Museums.

Keeper.—J. M. Hillier.

Assistant (1st Class).—J. H. Holland.

Jodrell Laboratory.

Assistant Keeper.—L. A. Boodle.

LONDON (Ontario).

WESTERN UNIVERSITY OF LONDON, Ontario, Canada. (1878.)

Terms: October to June.

Students: 200.

Budget: \$100,000.

OFFICIALS.

Chancellor.—The Hon. William J. Roche, M.D., LL.D., M.P.

President.—(Vacant.)

Registrar.—K. P. R. Neville, M.A., Ph.D.

Bursar.—William Waugh, M.D., LL.D.

Degrees conferred.—Honorary Degrees: D.D., D.Sc., LL.D.; Degrees by examination: B.A., B.D., M.A., M.D., D.D.

Gowns.—For Bachelor's degree, Cambridge shape with long pointed sleeves, of black worsted stuff, untrimmed, open or closed.

For Master's degree, Cambridge shape with long closed sleeves, of black worsted stuff or silk, untrimmed, open or closed.

For Doctor's degree, Cambridge shape with round open sleeves, of black worsted stuff or silk, open, with facing down the front of black velvet, with three bars of black velvet across each sleeve; or with the facing and bars of the colour of velvet that by convention pertains to the faculty in which the degree has been obtained. viz.: Arts, white; Medicine, dark green; Science, gold yellow; Laws, purple; Theology, scarlet.

PROFESSORS.

FACULTY OF ARTS.

Professors :

W. S. Fox, *Classics*.

N. C. James, *German*.

L. P. Shanks, *Romance Languages*.

K. P. R. Neville, *Classics*.

W. J. Patterson, *Mathematics*.

E. H. Perkins, *Geology*.

A. D. Robertson, *Biology*.

W. F. Tamblin, *English Literature*.

C. C. Waller, *Hebrew*.

L. A. Wood, *History and Economics*.

11 Lecturers, 1 Instructor

MEDICAL SCHOOL.

Professors :

(Vacant), *Physics*.

J. W. Crane, *Pharmacology*.

H. A. McCallum, *Medicine*.

P. S. McKibben, *Anatomy*.

H. Meek, *Gynecology, and Obstetrics*.

F. R. Miller, *Physiology*.

H. Williams, *Surgery*.

Associate Professors:

N. B. Alexander, *Anesthesia*.

N. H. Beal, *Clinical Surgery*.

J. B. Campbell, *Medicine*.

Associate Professors—Continued.

- G. L. Clark, *Ear, Eye, Nose, and Throat.*
 M. Crawford, *Psychiatry.*
 R. Ferguson, *Gynecology and Obstetrics.*

Assistant Professors :

- A. Graham, *Medicine.*
 F. W. Luney, *Pathology.*
 J. A. MacGregor, *Medicine.*
 W. J. Robinson, *Psychiatry.*
 E. Seaborn, *Clinical Surgery.*
 S. Thompson, *Eye, Ear, Nose, and Throat.*
 W. J. Tillman, *Pediatrics.*
 E. H. Young, *Psychiatry.*

Libraries.—

- General University Library. *Librarian :* Miss Marjorie Ross.
 Barnett Library. *Librarian :* J. Davis Barnett.
 Medical Library. *Librarian :* Miss Griffin.

Assistant Professors—Continued :

- H. H. Black, *Gynecology and Obstetrics.*
 E. L. Hodgins, *Clinical Surgery.*
 J. C. Lindsay, *Pediatrics.*
 W. J. Stevenson, *Gynecology and Obstetrics.*
 E. L. Williams, *Gynecology and Obstetrics.*
 J. C. Wilson, *Surgical Anatomy.*
 G. McNeil, *X-Ray.*
 6 Lecturers, 9 Instructors.

Inst. of Public Health.

Professors :

- A. J. Slack, *Chemistry.*
 3 Instructors.

AFFILIATED INSTITUTIONS.

- Huron Theological College.
 Unsaline College, Chatham, Ont.
 Assumption College, Sandwich, Ont.

LOS ANGELES (California).

UNIVERSITY OF SOUTHERN CALIFORNIA, Los Angeles, Cal. (1879.)

Terms : Two a year.

Students : 1,079.

OFFICIALS.

- President.*—G. F. Bovard, A.M., D.D., LL.D.
Treasurer.—G. I. Cochran, A.M., LL.D.
Registrar.—J. H. Montgomery.
Dean of the School of Education.—W. Franklin Jones, Ph.D.
Dean of the College of Physicians and Surgeons.—C. W. Bryson, A.B., M.D.
Dean of the College of Law.—F. M. Porter, A.B., LL.M.
Dean of the College of Dentistry.—L. E. Ford, D.D.S.
Dean of the College of Theology.—E. A. Healy, A.M., S.T.D.
Dean of the College of Pharmacy.—L. J. Stabler, M.S., Ph.C., Ss.D.
Dean of the College of Music.—W. F. Skeeke, A.B.
Dean of the College of Oratory.—Miss Elizabeth Yoder.

Degrees conferred.—A.B., A.M., M.D., LL.B., LL.M., J.D., D.D.S., B.D., Ph.G., Phar.B., B.S.

PROFESSORS.

COLLEGE OF LIBERAL ARTS.

Professors :

- P. Arnold, *Mathematics.*
 F. M. de Setien, *Spanish Language.*
 G. E. Bailey, *Geology.*
 E. S. Bogardus, *Sociology.*
 M. G. Borthwick, *German Language and Literature.*
 E. Braunton, *Landscape Gardening.*
 E. F. Bridges (Miss), *Applied Arts.*
 R. W. Brown (Miss), *Latin Language and Literature.*
 J. M. Dixon, *Literature.*
 C. C. Douglas, *Greek Language and Literature.*
 R. T. Flewelling, *Philosophy.*

Professors—Continued :

- K. T. Forrester (Miss), *Spanish Language and Literature.*
 A. Gaw, *English Language and Literature.*
 R. D. Hunt, *Economics.*
 C. V. Gilliland, *History.*
 L. M. Koehler, *Military Science and Tactics.*
 W. R. Laporte, *Physical Education.*
 C. W. Lawrence, *Civil Engineering.*
 A. C. Life, *Botany.*
 R. Malcolm, *Political Science.*
 O. J. Marston, *Economics.*
 J. H. Montgomery, *Physics and Electrical Engineering.*

Professors—Continued :

- A. W. Nye, *Physics and Director of the Laboratory.*
 F. E. Owen, *Psychology.*
 L. M. Riddle, *French Language and Literature.*
 S. Rittenhouse, *Zoology.*
 R. E. Schulz, *Spanish Language.*
 W. F. Jones, *Education.*
 A. B. Ulrey, *Biology.*
 L. S. Weatherby, *Chemistry.*
 J. F. Wilson, *Electrical and Mechanical Engineering.*
 P. S. Wood, *English Language and Literature.*

Associate Professors :

- M. E. Biles (Miss), *German.*
 K. McL. Bissell, *French.*
 J. Wood (Mrs.), *Physical Education.*
 G. Comstock (Miss), *Public Speaking.*
 C. W. Cook, *Civil Engineering.*
 L. T. Lowrey, *History.*
 H. L. Lunt, *Education.*
 A. E. Sedgwick, *Geology.*
 E. M. Smith (Miss), *Interpretation.*
 H. C. Willett, *Mathematics.*

Assistant Professors :

- C. V. Beers (Miss), *Biology.*
 L. T. Clark, *Physics.*
 D. T. Early, *History.*
 H. J. McClean, *Sociology.*

COLLEGE OF PHYSICIANS AND SURGEONS.**Professors :**

- C. C. Browning, *Diseases of the Chest.*
 C. W. Bryson, *Abdominal and Clinical Surgery.*
 J. Endelman, *Special Pathology, Therapeutics, and Materia Medica.*
 A. L. Grover, *Pathology, Bacteriology.*
 J. J. Kyle, *Otology, Laryngology, and Rhinology.*
 E. Leonard (Miss), *Bacteriology.*
 G. MacGowan, *Genito-Urinary Diseases.*
 F. C. E. Mattison, *Clinical Surgery.*
 T. J. McCoy, *Ophthalmology.*
 L. G. McNeile, *Obstetrics.*
 F. M. Pottenger, *Diseases of the Chest.*
 J. W. Reeves, *Physiology and General Pathology.*
 W. W. Richardson, *Clinical Surgery.*
 J. H. Seymour, *Surgery and Clinical Surgery.*
 A. Soiland, *Roentgenology.*
 H. L. White, *Biochemistry.*
 G. H. Wilson, *Clinical Prosthesis.*
 O. O. Witherbee, *Clinical Surgery.*
 T. B. Wright, *Medicine.*
 W. L. Zuill, *Otology, Laryngology, and Rhinology.*

Associate Professors :

- C. H. Criley, *Surgery.*
 A. Davidson, *Dermatology.*
 H. Herbert, *Physical Diagnosis.*
 W. L. Huggins, *Surgery.*
 E. D. Jones, *Therapeutics.*
 G. W. McCoy, *Ophthalmology.*
 P. C. H. Pahl, *Orthopedic Surgery, Fractures and Dislocations, and Chief of University Hospital and Clinic.*
 G. J. Lund, *Otology, Laryngology, and Rhinology.*
 H. Shoemaker, *Surgery.*
 H. E. Southworth, *Gynecology.*
 W. F. Wessels, *Medicine.*

Assistant Professors :

- L. G. Avery, *Surgery.*
 P. Boller, *Gynecology.*
 A. S. Granger, *Medicine.*
 R. A. Harris, *Ophthalmology.*
 H. W. Howard, *Gynecology.*
 J. C. Irwin, *Obstetrics.*
 W. H. Kiger, *Proctology.*
 F. J. Leavitt, *Medicine.*
 A. F. Maisch, "
 A. R. McLaughlin, *Physiology.*
 E. A. Newton, *Medicine.*
 C. E. Phillips, *Surgery.*
 A. J. Scott, *Pediatrics.*
 L. Shulman, *Diseases of the Chest.*
 A. S. Vanderstempel, *Materia Medica.*
 F. R. Webb, *Anatomy.*

COLLEGE OF LAW.**Professors :**

- K. B. Campbell, *Torts, Real Property.*
 G. W. Craig, *Elementary Law.*
 L. A. Groff, *Mining Law.*
 P. V. Hammon, *Criminal Law, Criminal Procedure.*
 B. C. Hanna, *Public Corporations, California Codes.*
 F. W. Houser, *Private Corporations and Ethics.*
 P. J. McCormick, *Criminal Law, Criminal Procedure.*
 V. R. McLucas, *Common Law Pleading.*
 C. E. Millikan, *Practice.*
 C. C. Montgomery, *Equity Jurisprudence and Procedure.*
 V. Morgan, *Code Pleading, Law of Persons, Real Property, Damages.*
 G. Newkirk, *Contracts.*
 F. M. Porter, *Evidence, Bailments, and Carriers.*
 J. C. Scarborough, *Code Pleading.*
 E. W. Tuttle, *Admiralty.*
 O. T. Van Etten, *Torts, Real Property.*

COLLEGE OF DENTISTRY.

Professors :

- J. McK. Brown, *Oral Surgery.*
- L. E. Ford, *Clinical Dentistry.*
- F. W. Frahm, *Prosthesis and Crown and Bridge Work.*
- A. D. La Touche, *Operative Dentistry.*
- C. D. Lockwood, *Oral Surgery.*
- J. D. McCoy, *Orthodontia and Radiography, Dental Faculty.*
- W. R. Molony, *Anatomy.*
- E. F. Tholen, *Oral Surgery.*
- A. F. Wagner, *Physics, Chemistry and Metallurgy.*

Associate Professors :

- E. L. Eames, *Prosthesis.*
- J. R. McCoy, *Orthodontia.*
- D. D. Thornton, *Oral Surgery.*
- M. G. Varian, *Anatomy.*

Assistant Professors :

- J. T. Parker, *Dental Anatomy and Operative Technics.*
- R. D. Johnston, *Pyorrhea Alveolaris and Oral Prophylaxis.*

COLLEGE OF THEOLOGY.

Professors :

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- E. A. Heally, *Systematic Theology.*
- J. G. Hill, *English Bible.*
- W. E. Tilroe, *Homiletics and Pastoral Theology.*

Post-Graduate Courses.—Leading to A.M., LL.M., J.D., and Phar.B.

Library.—University Library of 37,000 volumes. *Librarian :* Miss C. M. Brown.

Museums.—

Geology and Mineralogy.
Marine Biological Station. *Director :* A. B. Ulrey, A.M.

Assistant Professor :

G. B. Oxnam, *Religious Education.*

COLLEGE OF PHARMACY.

Professors :

- A. R. Maas, *Pharmacy and Materia Medica.*
- L. J. Stabler, *Applied Chemistry.*

Assistant Professors :

- J. H. Blumenberg, *Pharmaceutical Chemistry.*
- E. A. Henderson, *Practical Pharmacy.*

COLLEGE OF MUSIC.

Professors :

- C. A. Alchin (Miss), *Harmony.*
- L. J. Backstrand (Miss), *Voice Culture.*
- H. H. Chute (Miss), *Public School Music.*
- H. Cogswell, *Voice Culture.*
- L. A. Cummins (Miss), *Public School Music and Voice Culture.*
- E. G. Knster, *Violoncello.*
- C. E. Pemberton, *Violin and Theoretical Subjects.*
- A. M. Perry, *Violin.*
- J. Plowe, *Flute.*
- A. Raimondi, *Clarinet.*
- J. Rosenfold, *Violin.*
- A. Simonson, *Violoncello.*
- W. F. Skeele, *Piano and Pipe Organ.*
- R. M. Smith (Miss), *Piano.*
- S. R. Valenza, *Harp.*

COLLEGE OF ORATORY.

Professor :

E. Yoder (Miss), *Dramatic Art.*

SOUTHERN CALIFORNIA ACADEMY OF SCIENCES, Los Angeles, California. (1891.)

OFFICERS AND DIRECTORS.

- President.*—Holdridge O. Collins, LL.D.
- First Vice-President.*—M. F. Baumgardt.
- Second Vice-President.*—A. Davidson.
- Third Vice-President.*—A. B. Benton.
- Treasurer.*—S. J. Keese.
- Secretary.*—G. W. Parsons.

SECTIONS OF THE ACADEMY.

Astronomical Section.

Chairman.—M. F. Baumgardt.
Secretary.—S. J. Keese.

Geological Section.

Chairman.—W. L. Watts.
Secretary.—G. W. Parsons.

Biological Section.

Chairman.—Dr. J. C. Clark.
Secretary.—R. D. Jewett.

Botanical Section.

Chairman.—Dr. A. Davidson.
Secretary.—T. Payne.

Publications.—

Bulletin. Proceedings. Digitized by Microsoft®

LOUISVILLE (Kentucky).

SOUTHERN BAPTIST THEOLOGICAL SEMINARY, Louisville, Kentucky. (1859.)

Terms: Four per year. Students: 315 Undergraduates, 9 Graduates.

OFFICIALS.

President.—E. Y. Mullins, D.D., LL.D.

Librarian.—J. R. Sampey, D.D.

Degrees conferred.—Th.G., Th.B., Th.M., Th.D.

PROFESSORS.

Professors:

E. Y. Mullins, *Theology, Systematic and Biblical Theology.*J. R. Sampey, *Interpretation of the Old Testament.*A. T. Robertson, *Interpretation of the New Testament.*F. M. Powell, *Church History.*W. O. Carver, *Comparative Religion and Missions.*

Professors—Continued:

G. B. Eager, *Pastoral Theology.*C. S. Gardner, *Homiletics, Christian Sociology, and Sunday-School Pedagogy.*H. C. Wayman, *Biblical Introduction.*

Associate Professor:

L. P. Leavell, *Sunday-School Pedagogy.*

5 Instructors, etc.

Post-Graduate Courses for Th.D. (Doctor in Theology).

Learned Society.—Society for Missionary Inquiry.

AFFILIATED INSTITUTION.

Women's Missionary Union Training School.

LUCKNOW.

THE ISABELLA THOBURN COLLEGE, Lucknow. (1870.)

Affiliated to the University of Allahabad.

OFFICIALS.

Principal.—Miss Flora L. Robinson, B.A.

Headmistress of Teachers' Training.—Miss M. Landrum, B.A.

Treasurer.—Miss E. P. Maddan.

INSTRUCTIVE STAFF.

Principal.—Miss Flora L. Robinson, B.A.

Professor of Philosophy and Latin.—Miss Enola Eno.

Professor of Chemistry and Biology.—Miss Incz Mason.

Professor of Physics.—Miss Lillie Rockwell.

Professor of Mathematics.—Miss Mabel Lawrence.

Professors of English.—Miss Dimmitt, Miss Manchester.

Professor of European History.—Miss Wilma Eastis.

Professor of Indian History.—K. C. Roy.

Professor of Ancient History.—Miss Mona Sircar.

Professor of Persian.—Babu Baij Nath.

Teachers' Training Department.—Miss Margaret Landrum, Miss Susan Walsh.

Physical Training (under appointment).—Miss Florence Salzer.

PROFESSORS.

COLLEGE OF ARTS.

M. Shively (Miss), *English.*C. Eno (Miss), *Philosophy.*U. Eastis (Miss), *European and Ancient History.*E. V. Jenkins (Miss), *Latin.*Roy Saneksar, *Indian History.*Munshi B. Nath, *Persian.*F. Salzer (Miss), *Economics.*

Libraries.—One Library of 3,000 volumes. Librarian: Miss M. Landrum, B.A.

COLLEGE OF SCIENCE.

L. Rockwell (Miss), *Physics.*I. Mason (Miss), *Chemistry.*N. Bacon (Miss), *Biology.*

TEACHERS' TRAINING.

S. Walsh (Miss), *Normal Methods.*H. Yodin (Miss), *Kindergarten.*

LUCKNOW CHRISTIAN COLLEGE, Lucknow. (1872.)

This College is maintained by the Board of Foreign Mission of the Methodist Episcopal Church of the United States of America. Affiliated to the University of Allahabad.

Terms : One a year—July to April. *Students* : 255.
Budget : Rs. 135,000 per annum.

OFFICIAL.

Principal.—Rev. T. C. Badley, B.A.

PROFESSORS.

COLLEGE OF ARTS.

Professors :

M. M. Hadi, *Persian*.
 N. D. Shastri, *Sanskrit*.
 M. W. Branch, *Commerce*.
 H. A. Hanson, *Economics*.
 R. D. Wellons, *English*.
 W. S. Desai, *History*.

Assistant Professor :

K. C. Mozumdar, *English*.
 B. K. Kothari, *Commerce*.

Library.—The Library contains about 4,000 volumes.

COLLEGE OF SCIENCE.

Professors :

J. N. Hollister, *Zoology*.
 S. K. Zibbu
 E. R. Tweedie, *Chemistry*.
 N. N. Bose, *Mathematics*.
 G. N. Bhakay, *Botany*.
 P. Dayal, *Physics*.

Assistant Professors :

T. N. Dass, *Chemistry*.
 G. N. Bannerjee, *Physics*.

MADISON (Wisconsin).

UNIVERSITY OF WISCONSIN, Madison, Wisconsin. (1849.)

Terms : Two semesters and one Summer session.
Students : 6,978 (includes regular session, short courses, and summer session).
Budget (1918-19) : \$3,532,305.64.

OFFICIALS.

President.—E. A. Birge, Ph.D., Sc.D., LL.D.
Secretary.—M. H. Haertel.
Registrar.—W. D. Hiestand.

Degrees conferred.—B.A., Ph.B. (General Course), Ph.B. (Course for Normal School Graduates), LL.B., Mus.Bac., B.S. (Agriculture), B.S. (Home Economics), B.S. (Civil, Electrical, Mechanical, Mining, and Chemical Engineering), B.S. in Chemistry, B.S. in Pharmacy, B.S. in Medical Science, M.A., M.S., Ph.M., C.E., M.E., E.E., Min. E., Ph.D.

Graduate Certificates.—Graduate in Agriculture, Graduate in Pharmacy, Master of Pharmacy (for Graduates in Pharmacy).

PROFESSORS.

COLLEGE OF LETTERS AND SCIENCE.

Professors :

C. E. Allen, *Botany*.
 W. G. Bleyer, *Journalism*.
 L. J. Cole, *Genetics*.
 J. R. Commons, *Economics*.
 G. C. Comstock, *Astronomy*.
 F. D. Crawshaw, *Manual Arts*.
 A. L. P. Dennis, *History*.
 W. H. Dudley, *Visual Instruction*.
 P. W. Dykema, *Music*.
 F. H. Elwell, *Accounting*.
 R. T. Ely, *Economics*.
 R. Fischer, *Chemistry*.
 C. R. Fish, *History*.
 W. F. Giese, *Romance Languages*.

Professors—Continued :

J. L. Gillin, *Sociology*.
 S. W. Gilman, *Business Administration*.
 E. B. Gordon, *Music*.
 M. F. Guyer, *Zoology*.
 V. A. C. Henmon, *Education*.
 A. R. Hohlfeld, *German*.
 F. G. Hubbard, *English*.
 J. Jastrow, *Psychology*.
 C. L. Jones, *Political Science*.
 T. E. Jones, *Physical Education*.
 L. Kahlenberg, *Chemistry*.
 E. J. Kraus, *Botany*.
 C. K. Leith, *Geology*.
 V. Lenher, *Chemistry*.
 C. B. Lester, *Library Training*.

Professors—Continued :

- W. H. Lighty, *Correspondence Study*.
 E. B. McGilvary, *Philosophy*.
 A. L. Marlatt (Miss), *Home Economics*.
 M. Mason, *Mathematical Physics*.
 J. H. Matthews, *Chemistry*.
 W. J. Meek, *Physiology*.
 F. E. Mendenhall, *Physics*.
 C. H. Mills, *Music*.
 F. A. Ogg, *Political Science*.
 J. E. Olson, *Scandinavian Languages and Literature*.
 J. M. O'Neill, *Rhetoric and Oratory*.
 M. V. O'Shea, *Education*.
 E. T. Owen, *French and Linguistics*.
 F. A. Parker, *Music*.
 F. L. Paxson, *History*.
 A. S. Pearce, *Zoology*.
 W. T. Root, *History*.
 E. A. Ross, *Sociology*.
 W. A. Scott, *Economics*.
 G. C. Sellery, *History*.
 F. C. Sharp, *Philosophy*.
 G. Showerman, *Latin*.
 M. S. Slaughter, *Latin*.
 C. S. Slichter, *Applied Mathematics*.
 H. A. Smith, *Romance Languages*.
 B. W. Snow, *Physics*.
 E. B. Van Vleck, *Mathematics*.
 E. K. J. Voss, *Germanic Philology*.
 J. H. Walton, *Chemistry*.
 W. L. Westernman, *History*.
 R. H. Whitbeck, *Geography*.
 W. H. Williams, *Semitic Languages and Hellenistic Greek*.
 F. H. Wilson, *Economic Entomology*.
 A. N. Winchell, *Mineralogy and Petrology*.
 C. P. Winslow, *Forest Products*.
 J. S. Wood, *Military Science and Tactics*.
 K. Young, *English*.

Associate Professors :

- A. Beatty, *English*.
 S. Blanton, *Public Speaking*.
 W. B. Cairns, *American Literature*.
 O. J. Campbell, *English*.
 B. Cerf, *Romance Languages*.
 W. J. Chase, *History*.
 F. S. Cheydleur, *Romance Languages*.
 F. L. Clapp, *Education*.
 E. Conley (Miss), *Home Economics*.
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 L. W. Dowling, *Mathematics*.
 J. C. Elsom, *Physical Education*.
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 G. C. Fiske, *Latin*.
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 E. M. Gilbert, *Botany*.
 S. H. Goodnight, *German*.
 A. B. Hall, *Political Science*.
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Associate Professors—Continued :

- G. M. Hyde, *Journalism*.
 L. R. Ingersoll, *Physics*.
 W. H. Kiekhofen, *Economics*.
 J. L. Kind, *German*.
 F. C. Krauskopf, *Chemistry*.
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 H. B. Lathrop, *English*.
 D. D. Lescohier, *Economics*.
 G. S. Lowman, *Physical Education*.
 F. Manchester, *English*.
 W. S. Marshall, *Entomology*.
 W. J. Mead, *Geology*.
 A. V. Millar, *Drawing and Descriptive Geometry*.
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 J. F. Pyre, *English*.
 E. C. L. C. Roedder, *German Philology*.
 W. T. Root, *History*.
 E. B. Schlatter, *Romance Languages*.
 C. L. Schmit (Miss), *Home Economics*.
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 G. M. Smith, *Botany*.
 C. Starch, *Psychology and Education*.
 W. D. Stovall, *Hygiene*.
 E. M. Terry, *Physics*.
 B. M. Trilling (Miss), *Physical Education*.
 W. H. Twenhofel, *Geology*.
 W. H. Varnum, *Manual Arts*.
 G. Wagner, *Zoology*.
 J. W. Watson, *Electrical Engineering*.

Assistant Professors :

- H. B. Adkins, *Chemistry*.
 K. Allen (Miss), *Latin*.
 E. G. Atkin, *Romance Languages*.
 F. H. Bair, *English*.
 E. T. Bartholomew, *Botany*.
 E. F. Bean, *Geology*.
 H. R. Brown (Miss), *Physical Education*.
 F. Bruns, *German*. [tion.
 E. H. Byrne, *History*.
 C. D. Cool, *Romance Languages*.
 R. H. Denniston, *Botany*.
 B. F. Dodge (Miss) *Home Economics*.
 A. Dresden, *Mathematics*.
 A. B. Ernst (Miss), *German*.
 F. A. Ernst, *Romance Languages*.
 L. M. Gay (Miss), *Romance Languages*.
 W. Gelteh, *Music*.
 C. F. Gillen, *Romance Languages*.
 L. S. Greene, *Manual Arts*.
 M. H. Haertel, *German*.
 W. W. Hart, *Mathematics*.
 M. M. D'Hauler (Miss), *Physical Education*.
 E. Hillstrom (Miss), *Home Economics*.
 H. G. Houghton, *Public Speaking*.
 G. Johnson (Miss), *Public Speaking*.
 D. C. Keister, *Business Administration*.
 J. Keliber, *Military Science and Tactics*.

Assistant Professors—Continued:

- W. J. Keller, *German*.
 F. T. Kelly, *Semitic Languages and Hellenistic Greek*.
 A. E. Koenig, *Chemistry*.
 J. Krueger (Miss), *Home Economics*.
 E. P. Lane, *Mathematics*.
 E. P. Leonard (Miss), *English*.
 L. C. Lippitt (Miss), *Physical Education*.
 A. K. Lobeck, *Geology*.
 Lloyd Jones, *Education*.
 A. E. Lyon, *Romance Languages*.
 F. H. MacGregor, *Political Science*.
 K. F. McMurry, *Economics*.
 H. W. Mareh, *Mathematics and Physics*.
 R. B. Michell, *Romance Languages*.
 A. V. Millar, *Drawing and Descriptive Geometry*.
 H. L. Miller, *Education*.
 C. E. Muller, *Romance Languages*.
 F. L. Nardin (Miss), *English*.
 W. Nebel, *Chemistry*.
 J. Ortega, *Romance Languages*.
 R. S. Owen, *Topographical Engineering*.
 C. S. Pendleton, *English*. [ing.
 J. D. Phillips, *Drawing and Descriptive Geometry*.
 A. M. Pitman (Miss), *English, Greek, and Latin*.
 J. B. Read, *Business Administration*.
 F. O. Reed, *Romance Languages*.
 J. R. Richards, *Physical Education*.
 F. W. Roe, *English*.
 J. R. Roebuck, *Physics*.
 F. E. Sabin, *Latin*.
 F. E. Schlatter, *Physical Education*.
 S. Schlomovits, *Pharmacology and Toxicology*.
 H. A. Schuette, *Chemistry*.
 L. P. Shanks, *Romance Languages*.
 C. A. Smith, *History*.
 E. Steidtmann, *Geology*.
 S. A. Sterling (Miss), *German*.
 W. F. Steve, *Physics*.
 E. E. Swinney, *Music*.
 E. Taylor, *Mathematics*.
 W. Taylor, *English*.
 L. L. Townsend, *Music*.
 B. Ward, *Military Science and Tactics*.
 A. T. Weaver, *Public Speaking*.
 F. E. Williams, *Geology*.
 L. B. Wolfenson, *Semitic Languages and Hellenistic Greek*.

COLLEGE OF ENGINEERING.

Professors:

- E. Bennett, *Electrical Engineering*.
 J. G. Callan, *Steam and Gas Engineering*.
 B. G. Elliott, *Mechanical Engineering*.
 G. A. Hool, *Civil and Structural Engineering*.

Professors—Continued:

- C. M. Jansky, *Electrical Engineering*.
 O. L. Kowalke, *Chemical Engineering*.
 R. S. McCaffery, *Mining and Metallurgy*.
 E. R. Maurer, *Mechanics*.
 D. W. Mead, *Hydraulic Engineering*.
 E. M. Shealy, *Steam Engineering*.
 L. S. Smith, *Topographic and Highway Engineering*.
 F. E. Turneaure, *Engineering*.

Associate Professors:

- C. I. Corp, *Hydraulic Engineering*.
 E. R. Jones, *Agricultural Engineering*.
 W. S. Kinne, *Structural Engineering*.
 G. L. Larson, *Steam and Gas Engineering*.
 L. F. Van Hagen, *Railway Engineering*.
 O. P. Watts, *Chemical Engineering*.
 M. O. Withey, *Mechanics*.

Assistant Professors:

- A. E. Berggren, *Steam and Gas Engineering*.
 F. W. Duffee, *Agricultural Engineering*.
 H. S. Frary, *Steam and Gas Engineering*.
 A. L. Goddard, *Mechanical Practice*.
 G. W. Hobbs, *Agricultural Engineering*.
 P. H. Hyland, *Machine Design*.
 J. O. Kammmerman, *Electrical Engineering*.
 J. B. Kommers, *Mechanics*.
 G. J. Mitchell, *Chemical Engineering*.
 H. D. Orth, *Mechanical Drawing and Descriptive Geometry*.
 J. R. Price, *Electrical Engineering*.
 E. R. Shorey, *Mining and Metallurgy*.
 J. H. Sweeney, *Agricultural Engineering*.
 C. N. Ward, *Hydraulic Engineering*.

COLLEGE OF AGRICULTURE.

Professors:

- A. S. Alexander, *Veterinary Science*.
 D. S. Bullock, *Animal Husbandry*.
 E. H. Farrington, *Dairy Husbandry*.
 W. D. Frost, *Agricultural Bacteriology*.
 J. G. Fuller, *Animal Husbandry*.
 F. B. Hadley, *Veterinary Science*.
 J. G. Halpin, *Poultry Husbandry*.
 E. B. Hart, *Agricultural Chemistry*.
 E. G. Hastings, *Agricultural Bacteriology*.
 K. L. Hatch, *Agricultural Education*.
 B. H. Hibbard, *Agricultural Economics*.
 A. W. Hopkins, *Agricultural Journalism*.
 G. C. Humphrey, *Animal Husbandry*.
 L. R. Jones, *Plant Pathology*.
 J. G. Moore, *Horticulture*.
 R. A. Moore, *Agronomy*.
 J. B. Overton, *Plant Physiology*.
 H. L. Russell, *Agriculture*.
 A. R. Whitson, *Soils*.

Associate Professors :

- B. Beach, *Veterinary Science.*
- E. J. Delwiche, *Agronomy.*
- E. B. Fred, *Agricultural Bacteriology.*
- L. F. Graber, *Agronomy.*
- R. S. Hulec, *Animal Husbandry.*
- J. A. James, *Agricultural Education.*
- A. G. Johnson, *Plant Pathology.*
- G. W. Keitt, *Plant Pathology.*
- T. Macklin, *Agricultural Economics.*
- J. G. Milward, *Horticulture.*
- F. B. Morrison, *Animal Husbandry.*
- W. H. Peterson, *Agricultural Chemistry.*
- J. L. Sammis, *Dairy Husbandry.*
- H. Steenbock, *Agricultural Chemistry.*
- W. E. Tottingham, *Agricultural Chemistry.*
- E. Truog, *Soils.*

Assistant Professors:

- F. A. Aust, *Horticulture.*
- G. H. W. Benkenorf, *Dairy Husbandry.*
- A. Boring (Miss), *Home Economics.*
- G. Bohstedt, *Animal Husbandry.*
- P. W. Boutwell, *Agricultural Chemistry.*
- G. M. Briggs, *Agronomy.*
- I. G. Dickson, *Plant Pathology.*
- W. J. Geib, *Soils.*
- P. M. Harmer, *Soils.*
- J. Johnson, *Horticulture.*
- F. Kleinheinz, *Animal Husbandry.*
- B. D. Leith, *Agronomy.*
- E. W. Linstrom, *Genetics.*
- N. L. McMurry, *Economic Entomology.*
- G. B. Mortimer, *Agronomy.*
- F. L. Musbach, *Soils.*
- G. F. Potter, *Horticulture.*
- G. Richards, *Soils.*
- R. H. Roberts, *Horticulture.*
- M. H. Scott, *Animal Husbandry.*
- H. W. Stewart, *Soils.*

Associate Professors—Continued :

- A. L. Stone, *Agronomy.*
- W. A. Sumner, *Agricultural Journalism.*
- H. W. Ullsperger, *Soils.*
- J. C. Walker, *Plant Pathology.*
- J. F. Wojta, *Agricultural Extension.*
- A. N. Wright, *Agronomy.*
- W. H. Wright, *Agricultural Bacteriology.*

MEDICAL SCHOOL.

Professors :

- C. R. Bardeen, *Anatomy.*
- H. C. Bradley, *Physiology.*
- C. H. Bunting, *Pathology.*
- P. F. Clark, *Bacteriology.*
- H. E. Dearholt, *Health Instruction.*
- J. S. Evans, *Clinical Medicine.*
- J. A. E. Eyster, *Physiology.*
- E. Kremers, *Pharmaceutical Chemistry.*
- A. S. Loevenhart, *Pharmacology and Toxicology.*
- W. S. Miller, *Anatomy.*
- R. Van Valzah, *Clinical Medicine.*

Assistant Professors :

- P. M. Dawson, *Physiology.*
- V. C. Jacobson, *Pathology.*
- O. Larsell, *Anatomy.*
- W. S. Middleton, *Clinical Medicine.*
- S. J. Morris (Miss), *Clinical Medicine.*
- G. H. Robbins, " "

LAW SCHOOL.

Professors :

- E. A. Gilmore, *Law.*
- W. H. Page, *Law.*
- H. S. Richards, *Law.*
- O. S. Rundell, *Law.*
- H. L. Smith, *Law.*

Associate Professor :

- J. S. Wickham, *Law.*

Post-Graduate Courses.—Full graduate school in all departments.

Museums.—Engineering, State Historical, Geological, Herbarium, Art, and Chemical and Drugs.

Libraries.—Historical, University, Engineering, Law, and Agricultural Libraries. 519,600 volumes and 270,800 pamphlets. *Librarian :* W. M. Smith.

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—H. L. Russell.

MADRAS.

THE UNIVERSITY OF MADRAS, Senate House, Chepauk, Madras. (1857.)

Terms : Three a year.

Number of Students :

Arts	..	..	..	..	..	8,995
Medicine	..	..	..	..	..	327
Engineering	..	..	..	..	..	128

OFFICIALS.

Chancellor.—His Excellency the Governor of Madras.

Vice-Chancellor.—The Hon. Mr. Justice F. D. Oldfield, I.C.S.

Registrar.—Francis Dewsbury, B.A., LL.B.

Budget: The finances of the University comprise: (1) Fees utilized for administration 1918-19: Receipts, Rs. 3,84,457; Expenditure Rs. 3,15,318. (2) Endowments for prizes, medals, etc.: Capital Account, Rs. 2,8,150. (3) Imperial Recurring Grant: Rs. 65,000 per annum. (4) Imperial Non-Recurring Grants. (5) Grants from the Government of Madras for special purposes. (6) University Expansion Fund. The accumulated invested balance of the University now amount to nearly 23 lakhs of rupees.

Degrees conferred.—B.A., M.A., B.Sc., M.Sc., L.T., LL.B., LL.M., LL.D., M.B., B.S., M.D., L.M., L.S., M.S., B.S.Sc., B.E.

Professors :

G. Slater, *Indian Economics.*

Rao Sahib S. Krishnaswami Aujangar, *Indian History and Archeology.*

These Professors are under the direct control of the University. Each affiliated college has its own staff of Professors and Lecturers.

Lecturers.—With the exception of the two Professors named above, the University, as such, has no staff engaged directly in teaching. The University appoints annually ordinary University Lecturers mainly to assist the affiliated colleges in giving instruction in Honours Courses. For the same purpose intercollegiate lectures are also arranged. The University organizes from time to time special lectures by eminent persons in Europe and India.

Library.—The University Library contains over 20,000 volumes.

Post-Graduate Courses.—Research studentships up to a maximum of 8 per annum are granted to graduate students. These studentships are of the value of from Rs. 75 to Rs. 200 per mensem and are generally tenable for a period of three years.

AFFILIATED INSTITUTIONS.

The number of colleges affiliated to the University is as follows:

In the Faculty of Arts and Science.—

Training Colleges for Teachers, 2.

Colleges affiliated up to Honours Course, 4.

Colleges affiliated up to B.A. Degree Course, 17.

Colleges affiliated up to Intermediate Course, 28.

In the Faculty of Law, 2.

In the Faculty of Medicine, 1.

In the Faculty of Engineering, 1.

COLLEGE OF ENGINEERING, Madras. (1794.)

Affiliated to the University of Madras.

Students: 520.

Budget: Rs. 160,000.

OFFICIALS.

Principal.—W. H. James, M.Sc., M.I.M.E., A.M.Inst.C.E.

PROFESSORS.

H. W. Barker, *Civil Engineering.*

C. L. Cartwright, *Mechanical Engineering.*

H. B. Matthews, *Electrical Engineering.*

M. R. R. K. R. Ramaswami Ayyangar, *Mathematics.*

DEPARTMENT OF FISHERIES, Government Fisheries Bureau, Mount Rd., Madras.

Director.—J. Hornell, F.L.S.

Honorary Superintendent, West Coast Stations.—Sir F. A. Nicholson, K.C.I.E.

Marine Biologist.—R. H. Whitehouse, M.Sc.

Marine Assistant.—J. H. Allen, O.B.E.

Assistant Director.—Rao Bahadur V. V. Govindan, B.A., F.Z.S.

Piscicultural Assistant.—B. Sundara Raj, M.A.

Zoological Assistant.—S. T. Moses, M.A.

Scientific and Technical Institutions under the Department.

Marine Aquarium, at Madras, opened 1909.
 Biological Station, Krusadai Island, Pamban, at the head of the Gulf of Mannar (under construction).
 Training School for Teachers (Fisheries Schools), Calicut, opened 1919.
 Various industrial experimental Stations, including model cannery, etc.

Publications.—"Madras Fisheries Bulletins," of which eleven volumes have appeared. Contains both zoological and technical reports.

MADURA (India).

THE AMERICAN COLLEGE, Madura, South India. (1881.)
 Affiliated with the University of Madras.

Terms: Two a year. *Students:* 318.

Budget:

Staff	58,285	Rupces.
Science Apparatus, etc.	13,770	„

OFFICIALS.

Principal.—W. M. Zumbro, M.A.
Vice-Principal.—Peter Isaac, B.A., L.T.
Secretary.—A. J. Saunders, M.A.
Treasurer.—E. M. Flint, M.A.
Warden of Hostel.—E. L. Nolting, M.A.
Librarian.—A. J. Saunders, M.A.

PROFESSORS.

W. M. Zumbro, <i>English.</i>	E. M. Flint, <i>Physical Science.</i>
A. D. Massillamoni, <i>English.</i>	N. K. Aiyar „ „
E. L. Nolting „	K. S. V. Aiyanger, <i>Physical Science.</i>
N. R. Kedari Raaf „	S. M. Aiyer, <i>Physical Science.</i>
I. Saththianathan „	S. Chelladurai, <i>Natural Science.</i>
J. E. Kesari „	P. Isaac, <i>Logic.</i>
A. J. Saunders, <i>History and Economics.</i>	S. M. Aiyar, <i>Mathematics.</i>
L. C. Guise „ „	S. Sessa Sastrial, <i>Sanskrit.</i>
P. C. Chacko „ „	A. K. Konar, <i>Tamil.</i>
K. Kameswaram „ „	K. B. Nambiar, <i>Malayalam.</i>

Library.—General Library of 5,700 volumes, 200 bound periodicals, 250 unbound periodicals. *Librarian:* A. J. Saunders.

MALTA, UNIVERSITY OF. See VALETTA.

MANCHESTER.

THE VICTORIA UNIVERSITY OF MANCHESTER, Oxford Road, Manchester. (1851.)

Terms: Three per year.
Students: 2,549.
Budget: Total Assets, £1,842,773 12s. 3d.

OFFICIALS.

Chancellor.—Rt. Hon. Viscount Morley of Blackburn, C.M.
Vice-Chancellor.—Sir Henry A. Miers, M.A., Ph.D., F.R.S.
Registrar.—Edward Fiddes, M.A.

Degrees conferred.—Ph.D., Litt.D., M.A., B.A., D.Sc., M.Sc., B.Sc., LL.D., LL.B., M.D., Ch.M., M.B., Ch.B., Mus.D., Mus.B., M.Com., B.Com., D.D., B.D., M.S.Tech., B.Sc.Tech., M.Ed.

Hoods.—The Hoods of Bachelors and Masters shall be of fine black cloth or silk, trimmed in the following manner:

Degrees conferred—Continued.

<i>Degrees.</i>	<i>Hoods.</i>
B.A.	- Edging of pale blue silk, with a white fur lining inside the edging.
M.A.	- Lining of pale blue silk.
B.Sc.	- Edging of salmon silk, with a white fur lining inside the edging.
M.Sc.	- Lining of salmon silk.
LL.B.	- Broad edging of violet-coloured silk.
M.B.	- Broad edging of red silk.
M.Sur.	- Lining of red silk.
B.D.S.	- Edging of fawn silk, with a white fur lining inside the edging.
M.D.S.	- Lining of fawn silk.
Mus.B.	- Dark blue silk, with a two-inch border of light blue silk on both the inner and outer side.
B.Com.	- Edging of orange silk, with a white fur lining inside the edging.
M.Com.	- Lining of orange silk.
B.D.-	- Lining of heliotrope silk, with a white fur edging within the silk.
B.T.S.	- Edging of terra-cotta corded silk, and a white fur lining inside the edging.
M.T.S.	- Lining of terra-cotta corded silk.
M.Ed.	- Lining of bluish-green silk.

The hoods for the degrees of Litt.D., D.Sc., LL.D., DD., and M.D., shall be of velvet or of satin serge of a gold colour, lined with silk of a lighter shade of the same colour.

PROFESSORS.

FACULTY OF ARTS.

Professors :

- T. F. Tout, *History.*
- S. Alexander, *Philosophy.*
- A. Johannson, *Germanic Philology.*
- C. H. Herford, *English Language and Literature.*
- G. E. K. Bramholtz, *Classics.*
- E. H. Parker, *Chinese.*
- R. S. Conway, *Latin and Indo-European Philology.*
- L. E. Kastner, *French Language and Literature.*
- G. Unwin, *Economic History.*
- A. C. Dickie, *Architecture.*
- W. J. Sedgfield, *English Language.*
- W. B. Anderson, *Imperial Latin.*
- W. M. Calder, *Greek.*
- J. R. Muir, *Modern History.*
- D. H. Macgregor, *Political Economy.*
- M. V. Trofimov, *Russian.*
- T. H. Pear, *Experimental Psychology.*
- J. Orr, *French Language.*
- E. G. Gardner, *Italian Studies.*

Lecturers :

- E. S. Forster, *Classical Archeology.*
- H. B. Charlton, *English Literature.*
- F. E. Harmer
- P. Sheavyn (Miss), *English Literature.*
- J. Marks, *French.*
- A. Valette
- A. Mingana, *Arabic.*
- M. H. Farbridge, *Assyriology.*
- L. C. Casartelli, *Iranian Languages.*
- T. E. Peet, *Egyptology.*
- A. G. Little, *Paleography.*
- E. Fiddes, *Roman History.*
- A. W. Daniels, *Economics.*

Lecturers—Continued :

- M. E. Powell (Miss), *Economics.*
- A. G. Ogilvie, *Geography.*
- J. Macmurray, *Philosophy.*
- H. McLachlan, *Hellenistic Greek.*
- F. W. Halliday, *German.*
- M. D. I. Lloyd
- A. Kirk, *Modern Languages.*

Reader :

- W. T. Waugh, *Ecclesiastical History.*
- 12 Assistant Lecturers.

FACULTY OF SCIENCE.

Professors :

- Sir H. A. Miers, *Crystallography.*
- H. Lamb, *Mathematics.*
- H. B. Dixon, *Chemistry.*
- F. E. Weiss, *Botany.*
- S. J. Hickson, *Zoology.*
- A. Lapworth, *Organic Chemistry.*
- W. L. Bragg, *Physics.*
- R. Beattie, *Electro-Technics.*
- O. T. Jones, *Geology.*
- S. Chapman, *Mathematics.*

Associate Professor :

- L. Sandeman, *Engineering.*

Readers :

- F. P. Burt, *Inorganic Chemistry.*
- H. G. Hickling, *Geology.*
- J. N. Pring, *Electro-Chemistry.*

Lecturers :

- W. Makower, *Physics.*
- E. J. Evans
- H. Robinson, *Physics.*
- R. W. James, *Chemistry.*
- N. Smith

Lecturers—Continued :

- J. E. Myers, *Chemistry*.
 W. J. Jones "
 C. Campbell "
 H. Stephen "
 D. H. Baugham "
 E. G. Gaul, *Bacteriological Chem-
 istry*.
 J. S. Thomson, *Zoology*.
 R. A. Wardle "
 H. S. Leigh "
 G. Lapage "
 R. S. Adamson, *Botany*.
 W. Robinson, *Botany*.
 W. O. Howarth, *Botany*.
 F. K. Charlsworth, *Geology*.
 H. Gerrard, *Electro-Technics*.
 C. B. Dewhurst, *Engineering*.
 F. Buckingham "
 J. Frith "
 T. Cook "

FACULTY OF MEDICINE.

Professors :

- A. S. Delepine, *Public Health and
 Bacteriology*.
 R. B. Wild, *Materia Medica and
 Therapeutics*.
 G. R. Murray, *Systematic Medicine*.
 W. Thorburn, *Clinical Surgery*.
 J. W. Smith, *Systematic Surgery*.
 A. Donald, *Obstetrics and Gynecology*.
 E. S. Reynolds, *Clinical Medicine*.
 H. R. Dean, *Pathology and Pathological
 Anatomy*.
 J. S. B. Stopford, *Anatomy*.

Lecturers :

- J. Morley, *Clinical Anatomy*.
 T. G. Brown, *Experimental Physiology*.
 J. Grier, *Pharmacognosy, etc*.
 H. Simms, *Dental Materia Medica*.
 W. B. Anderton, *Pathology*.
 J. H. Dible "
 G. E. Loveday "
 J. Holker "
 W. Dyson "
 C. P. White "
 E. M. Brockbank, *Clinical Medicine*.
 A. Ramsbottom "
 F. E. Tylecote "
 C. H. Melland "
 D. E. Core "
 F. C. Moore, *Systematic Medicine*.
 J. W. Stephens, *Tropical Diseases*.
 J. Fletcher, *Infectious Diseases*.
 H. H. Rayner, *Clinical Surgery*.
 W. H. Hey "
 J. P. Buckley "
 E. D. Telford, *Systematic Surgery*.
 P. R. Wrigley, *Operative Surgery*.
 G. Wright "
 J. H. Ray, *Surgical Pathology*.
 A. H. Burgess, *Practical Surgery*.
 C. Roberts, *Orthopedic Surgery*.

Lecturers—Continued :

- W. E. Fothergill, *Obstetrics*.
 D. L. Roberts "
 C. P. Lapage, *Diseases of Children*.
 W. B. Anderton, *Forensic Medicine*.
 J. J. Butterworth, *Hygiene*.
 W. Scowcroft, *Mental Diseases*.
 J. G. Clegg, *Clinical Ophthalmology*.
 G. H. Laneashire, *Dermatology*.
 S. Moritz, *Diseases of the Larynx*.
 Sir W. Milligan, *Diseases of the Ear*.
 A. Wilson, *Anesthetics*.

Public Health Department.

- E. J. Sidebotham, *Bacteriology (Public
 Health)*.
 A. Sellers, *Comparative Pathology
 (Public Health)*.
 H. Heap, *Practical Chemistry (Public
 Health)*.
 T. M. Legge, *Factory Hygiene*.
 M. Young, *School Hygiene*.
 M. Woods, *Veterinary Hygiene*.

SCHOOL OF DENTAL SURGERY.

Lecturers :

- C. H. Preston, B. J. Rodway, E.
 Houghton, H. H. Rayner, D. Head-
 ridge, J. P. Headridge, H. Simms,
 G. G. Champion.

PHARMACEUTICAL DEPARTMENT.

Lecturer : J. Grier.

FACULTY OF LAW.

Tutor : L. Bottomley.

Lecturers :

- T. C. Eastwood, E. C. Burgis, F. B.
 Osborne, H. S. Ferguson, J. Bennett,
 H. Cardwell, R. A. Eastwood.

FACULTY OF THEOLOGY.

Professors :

- A. S. Peake, *Biblical Exegesis*.
 M. A. Canney, *Semitic Languages and
 Literature*.

Readers :

- W. T. Waugh, *Ecclesiastical History*.
 D. Atkinson, *Ancient History*.

Lecturers :

- Prof. Canney, *Biblical Exegesis*
 Rev. J. T. Marshall, *History of Doctrine*.
 Archdeacon Allen "
 Rev. S. H. Mellane "
 Rev. W. H. Bennett "
 Rev. A. H. Mumford "
 Rev. L. W. Gransted "
 Rev. J. T. Breurs "
 Rev. R. Mackintosh, *Philosophy of
 Religion*.
 Prof. W. M. Calder, *Christian Epi-
 graphy*.

FACULTY OF EDUCATION.

Professors :

J. J. Findlay, *Education*.
H. B. Smith ,,

Lecturers :

C. Herford (Miss), *Education*.
H. T. Mark ,,
A. E. Heath ,,
M. E. Eggar (Miss) ,,
O. A. Wheeler (Miss) ,,
S. A. Burstall (Miss) ,,
J. L. Paton ,,
I. R. Goldsack, *Training Teachers of
the Deaf*.
G. Conway (Miss), *Continuation School
Teaching*.
F. Keighley (Miss), *Singing*.

FACULTY OF MUSIC.

Lecturers :

G. Brodsley, W. Carroll, T. Keighley.

FACULTY OF COMMERCE.

Lecturers :

G. W. Daniels, *Economics*.
M. E. Powell (Miss), *Economics*.
H. H. Bellhouse, *Banking*.
D. D. Fraser ,,
H. S. Ferguson, *Accounting*.
R. A. Barry, *Railway Economics*.
T. A. Kenyon ,, ,,
A. D. Lomas ,, ,,
R. G. McLaughlin ,, ,,

Post-Graduate Courses for the Bachelor's Degree in Theology. For the Master's Degrees in Arts, Science, Medicine, Commerce, Technology, and Education. For the degree of Ph.D. For the degree of Doctor in Arts, Science, Law, Medicine, Music, and Theology.

Museums.—

The Manchester Museum. *Keeper* : W. M. Tattersall, D.Sc.
The Pathological Museum. *Curator* : W. B. Anderton.

Libraries.—

The Christie Library. *Librarian* : C. W. E. Leigh.
The Medical Library. *Librarian* : W. Thompson.
The School of Technology Library. *Librarian* : H. Williams.

AFFILIATED INSTITUTIONS.

The Harris Institute, Preston.
Capetown University (for certain courses).

COLLEGE OF TECHNOLOGY, Manchester. (1824.)

The College of Technology has developed from the Mechanics Institute which was founded in 1824. It became connected with the University of Manchester, when in 1905 a Faculty of Technology in the University was established with the Principal of the then School of Technology as Dean of the Faculty, and the heads of the principle Departments as Professors in the University with seats on the Senate of the University. In 1912 the College was officially recognized as a College of University rank, being included for the first time in the Board of Education Volume of "Reports from those Universities, and University Colleges in Great Britain which are in receipt of grants from the Board of Education."

The buildings which are situated in Sackville Street are six storeys in height, and over an area of 6,400 square yards. The value of the site, building, and equipment of the College amounts to £370,000. The buildings and greater part of the equipment are the property of the Manchester City Council, and the annual expenditure of the City Council on the maintenance of the College constitutes the greater part of the City's contribution to the cost of University education in Manchester.

Terms : Four per year.

Students : 595.

Budget : The cost of maintaining the College during the financial year 1918-19 was approximately £67,000. This amount is provided partly by the City of Manchester, partly by Government Grants, private donations, and grants from neighbouring authorities.

OFFICIALS.

Chancellor.—The Rt. Hon. The Viscount Morley of Blackburn, O.M.

Vice-Chancellor.—Sir Henry A. Miers, M.A., D.Sc., Ph.D., F.R.S.

Pro-Vice-Chancellors.—Prof. R. B. Wilk, M.D., M.Sc., F.R.C.P.; Edward Fiddes, M.A.

Dean of the Faculty of Technology.—J. C. Maxwell Garnett, C.B.E., M.A.

Degrees and Hoods.—B.Sc. Tech., terra cotta; M.Sc. Tech., terra cotta. Ph.D. and D.Sc.

PROFESSORS.

Professors:

- G. G. Stoney, *Mechanical Engineering.*
- M. Walker, *Electrical Engineering.*
- F. L. Pyman, *Technological Chemistry.*
- E. Knecht, *Applied Chemistry.*
- A. J. Turner, *Textile Technology.*
- A. C. Dickie, *Architecture.*
- W. B. Dawkins, *Mining.*
- W. W. H. Gee, *Physics.*

Lecturers :

- H. G. Jordan, *Mechanical Engineering.*
- P. T. Petrie " "
- W. C. Popplewell " "
- D. Smith " "
- W. J. Walker " "
- 6 Assistant Lecturers, 1 Instructor and an Assistant Instructor.
- J. L. Langton, *Electrical Engineering.*
- A. E. Moore " "
- A. E. Clayton " "
- F. Shaw " "
- 2 Assistant Lecturers, 1 Assistant Instructor.
- J. Radcliffe, *Sanitary Engineering.*
- 2 Assistant Lecturers.

Lecturers—Continued :

- J. Huebner, *Bleaching and Dyeing.*
- J. Grant, *Chemistry of Foodstuffs.*
- E. L. Rhead, *Metallurgy and Assaying.*
- F. S. Sinnatt, *Fuels.*
- L. G. Radcliffe, *Organic Chemistry.*
- S. J. Peachey, *Applied Chemistry.*
- F. M. Rowe, *Dyestuffs.*
- 1 Assistant Lecturer and additional Assistants.
- W. Myers, *Textile Industries.*
- A. E. G. Brookes, *Textile Design.*
- W. A. Hanton, *Engineering (Textile).*
- 2 Assistant Lecturers, 1 Demonstrator, 6 Assistant Instructors.
- C. W. Gamble, *Photography.*
- R. B. Fishenden, *Engraving and Printing.*
- G. Hickling, *Palcontology.*
- N. T. Williams, *Coal and Metal Mining.*
- J. Prescott, *Mathematics.*
- F. Bowman " "
- R. Barlow " "
- 2 Assistant Lecturers.
- A. Ferguson, *Physics.*
- 2 Demonstrators.
- A. Kirk, *German.*

Post-Graduate Courses.—The College provides facilities for advanced study and research in its Departments of Mechanical Engineering, Electrical Engineering, Applied Chemistry, Municipal and Sanitary Engineering, Textile Industries, Photographic Technology, Printing, Architecture and Mining. By the award of special research scholarships to candidates of proved ability, by the appointment of additional Professors and Lecturers to conduct and supervise research, and by the provision of additional accommodation particularly in the main Departments—Mechanical Engineering, Electrical Engineering, and Applied Chemistry—of the College, the volume of research has, during the past few years, very considerably increased.

Additional facilities for post-graduate study have been provided to meet the demand from those students who have taken their degree and who are now seeking to complete their academic training for industrial appointments by post-graduate study and research in this College, and to meet the needs of those Industrial Research Associations which have recently been formed by whole industries, and when formation has resulted in a big demand for the services of experienced graduates. Organized courses of graduate study and training in the methods of research leading to the newly established degree of Ph.D., and to the degree of M.Sc.Tech., have been arranged.

Graduates may also conduct research in this College for the degree of D.Sc.

Library.—College of Technology Library. *Librarian :* H. Williams.

MANGALORE.

ST. ALOYSIUS' COLLEGE, Edyah Hill, Mangalore. (1880.)

St. Aloysius' College is under the management of the Fathers of the Society of Jesus, and is affiliated to the Madras University as a first-grade college.

Terms : Two a year.

Students : 286.

OFFICIAL.

Principal.—The Rev. C. Perazzi, S.J., D.D.

Degree conferred: Bachelor of Arts.

PROFESSORS.

Rev. L. Proserpio, *English*.
 Rev. M. N. Coelho, "
 Rev. D. J. Fernandes, "
 Rev. A. Ambruzzi, *History and English*.
 Rev. J. M. Baizini, *Mathematics*.
 Rev. N. Fermi, *Chemistry and Astronomy*.

Rev. T. Gonsalves, *Physics*.
 Rev. G. Saldanha, *Logic, French and Latin*.
 C. J. Varkey, *History*.
 7 Lecturers, 3 Pandits.

Libraries.—

Professors' Library. *Librarian*: The Rev. J. M. Baizini.
 Students' Library. *Librarian*: The Rev. M. N. Coelho.

MANHATTAN (Kansas.)

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—F. D. Farrell.

MARE ISLAND (California).

NAVAL OBSERVATORY, Mare Island, California. (1882.)

Director.—Capt. T. J. J. See, Professor of Mathematics, U.S.N.
 5 Assistants.

MARINE BIOLOGICAL ASSOCIATION. See PLYMOUTH.

MAYAGUEZ (Porto Rico).

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Agronomist.—D. W. May.

McMASTER UNIVERSITY. See TORONTO.

MEDFORD (Massachusetts).

TUFTS COLLEGE, Medford, Mass. (1852.)

Terms: Two semesters a year.

Students: 1977.

OFFICIALS.

Acting-President.—John A. Cousens, A.B.

Dean of School of Liberal Arts.—F. G. Wren, A.M.

Dean of College for Women.—Caroline S. Davies, A.M.

Dean of Engineering School.—G. C. Anthony, A.M., Sc.D.

Dean of Medical School.—C. F. Painter, A.B., M.D.

Dean of Dental School.—William Rice, D.M.D.

Vice-Dean of Medical and Dental Schools.—Frank G. Wheatley, A.M., M.D.

Dean of Theological School.—L. S. McCollester, S.T.D.

Dean of Graduate School.—C. E. Fay, A.M., Litt. D.

Degrees conferred.—A.B., B.S. in Chemistry, B.S. in Civil Engineering, B.S. in Electrical Engineering, B.S. in Mechanical Engineering, B.S. in Chemical Engineering, B.S. in Engineering, S.T.B., M.D., D.M.D., A.M., M.S.

PROFESSORS.

FACULTY OF THE ASSOCIATED SCHOOLS.

Professors:

C. E. Fay, *Modern Languages*.

L. R. Lewis, *History and Theory of Music*.

W. K. Denison, *Latin Language and Literature*.

E. C. Bolles, *English and American*

F. E. Seavey, *English*. [History.]

H. I. Cushman, *Homiletics*.

C. S. Davies (Mrs.), *English*.

Professors—Continued:

H. G. Mitchell, *Hebrew and Old Testament Exegesis*.

A. I. Andrews, *History and Public Law*.

L. S. McCollester, *Christian Theology*.

C. H. Gray, *English*.

H. A. Wooster, *Political Science*.

F. W. Durkee, *Chemistry*.

G. C. Anthony, *Technical Drawing*.

F. G. Wren, *Mathematics*.

C. H. Chase, *Steam Engineering*.

Professors—Continued :

- F. D. Lambert, *Botany*.
 W. R. Ransom, *Mathematics*.
 E. H. Rockwell, *Structural Engineering*.
 S. L. Conner, *Railroad Engineering*.
 A. C. Lane, *Geology and Mineralogy*.
 H. V. Neal, *Zoology*.
 C. R. Skinner, *Applied Chemistry*.
 G. P. Bacon, *Physics*.

Assistant Professors :

- W. H. Reed, *Modern Languages*.
 A. H. Gilmer, *English*.
 W. F. Wyatt, *Greek*.
 E. A. Shaw, *Education*.
 C. F. Nevens, *Modern Languages*.
 J. C. Scammell, *English*.
 R. C. Givler, *Philosophy*.
 E. B. Rollins, *Electrical Engineering*.
 M. S. Munro, *Electrical Engineering*.
 H. H. Carroll, *Technical Drawing*.
 C. F. Baker, *Analytical Chemistry*.
 H. Rice, *Mathematics*.
 C. A. Adams, *Mechanics Arts*.
 E. MacNaughton, *Mechanical Engineer-*
ing.
 E. H. Wright, *Civil Engineering*. [ing.
 T. E. Mergendahl, *Mathematics*.
 W. E. Farham, *Technical Drawing*.
 D. E. Worrall, *Chemistry*.
 H. P. Burden, *Civil Engineering*.
 2 Lecturers, 27 Instructors, 19 Assistants.

FACULTY OF THE MEDICAL SCHOOL.**Professors :**

- J. L. Ames, *Theory and Practice of*
G. A. Bates, Histology. [Medicine.
 W. E. Chenery, *Laryngology*.
 W. R. P. Emerson, *Children's Diseases*.
 L. V. Friedman, *Obstetrics*.
 A. Greenwood, *Ophthalmology*.
 G. W. Kaan, *Clinical Gynecology*.
 F. H. Lahey, *Clinical Surgery*.
 E. B. Lane, *Mental Diseases*.
 T. Leary, *Pathology, Bacteriology, and*
Medical Jurisprudence.
 E. N. Libby, *Clinical Medicine*.
 F. H. McCrudden, *Applied Therap-*
utics. [Climatology.
 E. O. Otis, *Pulmonary Diseases and*
C. F. Painter, Orthopedic Surgery.
 E. M. Plummer, *Otology*.
 A. H. Ryan, *Physiology*.
 W. E. Sullivan, *Anatomy*.
 T. W. Thorndike, *Dermatology*.
 F. G. Wheatley, *Pharmacology*.
 C. M. Whitney, *Genito-Urinary Dis-*
eases.

Post-Graduate Courses for A.M. and M.S. degrees.

Museum.—The Barnum Museum of Natural History.

Library.—Eaton Memorial Library. Librarian : Miss E. M. Hayes, A.B. Assistant Librarian : Miss B. H. Hooper, A.B.

Associate Professors :

- A. L. Chute, *Genito-Urinary Surgery*.
 W. E. Fernald, *Mental Diseases*.
 F. E. Haskins, *Pharmacology*.
 A. R. Kimpton, *Surgery*.
 W. F. Nolen, *Anatomy*.
 S. Rushmore, *Gynecology*.

Assistant Professors :

- A. E. Austin, *Clinical Medicine, Lec-*
turer in Gastro-Intestinal Diseases.
 E. W. Barron, *Children's Diseases*.
 A. W. George, *Roentgenology*.
 C. D. Knowlton, *Theory and Practice*
of Medicine.
 O. C. Leary (Mrs.), *Pathology and Bac-*
teriology.
 F. P. McCarthy, *Pathology and Bac-*
A. Myerson, Neurology. [teriology.
 T. J. O'Brien, *Clinical Medicine*.
 A. K. Paine, *Obstetrics*.
 C. Phipps, *Clinical Medicine*.
 F. Reis, *Physiological and Biological*
Chemistry and Toxicology.
 M. H. Rogers, *Orthopedic Surgery*.
 L. M. Spear, *Theory and Practice of*
Medicine.
 A. W. Stearns, *Neurology*.
 C. E. Turner, *Hygiene*.
 2 Lecturers, 35 Instructors, 25 Teach-
 ing Assistants, 10 Laboratory As-
 sistants.

FACULTY OF THE DENTAL SCHOOL.**Professors :**

- R. H. Ashley, *Chemistry*.
 G. A. Bates, *Comparative Anatomy*.
 W. G. Bridge, *Crown and Bridge Work*.
 A. L. Johnson, *Orthodontia*.
 C. M. Proctor, *Oral Surgery*.
 W. Rice, *Operative Dentistry*.

Associate Professors :

- G. C. Ainsworth, *Operative Dentistry*.

Assistant Professors :

- H. J. Baker, *Operative Dentistry*.
 H. H. Chakmakjian, *Chemistry*.
 C. W. Farrington, *Operative Dentistry*.
 W. P. Houston, *Operative Dentistry*.
 A. L. Morse, *Orthodontia*.
 R. H. Norton, *Oral Surgery and Anes-*
thesia.
 F. O'Meara, *Chemistry*.
 H. H. Piper, *Operative Dentistry and*
Instructor Dental History.
 28 Instructors, 60 Visiting Instructors,
 2 Teaching Assistants, 15 Laboratory
 Assistants.

MELBOURNE (Victoria).

UNIVERSITY OF MELBOURNE, Melbourne, Victoria. (1853.)

Terms : Four per year.*Students* (1919): 1925.*Budget* (1918):

Receipts:	Government Grants	..	..	..	£29,167
	Fees	..	..	..	43,303
	Interest	..	..	..	8,197
	Other Sources	..	..	..	1,726
	Total	..	..	..	£82,393

Payments:	Salaries	..	..	..	£50,231
	Laboratory Expenses	..	..	..	4,367
	Scholarships, etc.	..	..	..	6,127
	Buildings and Grounds	..	..	..	3,063
	General Maintenance	..	..	..	3,602
	Other Expenses	..	..	..	8,558
	Total	..	..	..	£75,948

OFFICIALS.

Chancellor.—Sir John H. MacFarland, M.A., LL.D.*Vice-Chancellor*.—Sir John Grice, B.A., LL.B.*President of the Professorial Board*.—Prof. W. A. Osborne, M.B., B.Ch., D.Sc.*Registrar*.—J. P. Bainbridge, F.C.I.S., J.P.

Degrees conferred.—B.A., M.A., Litt.D., B.Sc., M.Sc., D.Sc., LL.B., LL.M., LL.D., M.B., B.S., M.D., M.S., B.C.E., B.M.E., B.E.E., B.Mech.E., M.C.E., M.M.E., M.E.B., M.Mech.E., D.Eng., B.D.Sc., D.D.Sc., Mus.Bac., Mus.Doc., B.Agr.Sc., M.Agr.Sc., B.V.Sc., D.V.Sc.

Also Diplomas in Education, Analytical Chemistry, Public Health, Tropical Medicine, Mining, Metallurgy, Architecture, Science in Veterinary Science, Music, and Agriculture.

PROFESSORS.

FACULTY OF ARTS AND
EDUCATION.**Professors :**E. J. Nanson, *Mathematics, Pure and Mixed.*C. A. Scutt, *Classical Philology.*R. S. Wallace, *English Language and Literature.*W. R. B. Gibson, *Mental and Moral Philosophy.*E. Scott, *History.*J. Smyth, *Education.***Lecturers :**W. Kerry, *Classics.*E. W. Cornwall, *Classics.*J. H. Mitchell, *Mixed Mathematics.*F. I. Maurice-Carton, *French.*T. J. Smith, *Logic.*J. S. W. Webb, *History.*E. C. W. Kelly, *Political Economy.*J. McK. Stewart, *Philosophy.*A. Lodewyckx, *German.*C. E. Weatherburn, *Mathematics.*A. T. Strong, *English.*H. M. Robinson, *English.*M. S. Sharman, *Teaching of Mathematics and Science.***Lecturers—Continued :**I. D. Marshall, *Teaching of English History.*J. McRae, *General Method and Psychology.*R. Lawson, *Teaching of Languages.*

4 Instructors.

FACULTY OF LAW.

Professor :W. H. Moore, *Law.***Lecturers :**J. E. Mackey, *Equity.*J. R. Maquire, *Wrongs and Procedure.*R. H. Gregory, *Property in Land and Conveyancing.*J. G. Latham, *Contracts and Personal Property.*

FACULTY OF MEDICINE.

Professors :Sir H. Brookes Allen, *Pathology.*W. A. Osborne, *Physiology.*R. J. A. Berry, *Anatomy.***Lecturers :**Sir H. C. Maudsley, *Theory and Practice of Medicine.*F. D. Bird, *Surgery.*

Lecturers—Continued :

- F. G. Middleton, *Anatomy*.
 F. G. Morgan, *Pathology*.
 G. Horne, *Obstetrics and Gynecology*.
 C. Bage, *Therapeutics*.
 F. W. Sinclair, *Public Health*.
 R. J. Bull, *Bacteriology*.
 C. H. Mollison, *Forensic Medicine*.
 Sir J. W. Barrett, *Physiology of Special Senses*.
 J. F. Wilkinson, *Clinical Physiology*.
 H. A. S. Newton, *Regional and Applied Anatomy*.
 A. V. M. Anderson, *Medical Ethics*.
 L. A. I. Maxwell, *Anesthetics*.
 F. L. Davies, *Anesthetics*.
 B. L. Stanton, *Materia Medica and Pharmacy*.
 9 Instructors.

FACULTY OF ENGINEERING.**Professor :**

H. Payne, *Engineering*.

Lecturers :

- A. H. Merrin, *Mining*.
 G. Higgins, *Civil Engineering*.
 W. A. M. Blackett, *Architecture*.
 J. S. Gawler, *Architecture*.
 R. H. Alsop, *Architectural Atelier*.
 J. T. Lupson, *Surveying*. [Director].
 E. B. Brown, *Electrical Engineering*.
 A. J. Higgin, *Metallurgy*.
 W. N. Kernot, *Engineering Design and Drawing*.
 J. A. Laing, *Concrete and Reinforced Concrete*.
 W. Calder, *Country Roads*.
 A. E. Callaway, *Country Roads*.
 J. W. S. Crow, *Lubrication*.
 2 Instructors.

FACULTY OF VETERINARY SCIENCE.**Professor :**

H. A. Woodruff, *Veterinary Pathology*.

Museums.—Most of the Science Departments have Museums attached to them, particularly Pathology (15,000 specimens), Anatomy, Engineering, Botany, and Biology.

Libraries.—

General Library. *Librarian* : D. Ulrich, M.A.

Medical School Library.

AFFILIATED INSTITUTIONS.

Trinity College, Ormond College, Queen's College, Newman College, Australian College of Dentistry.

In addition work at the following is recognized: Melbourne Hospital, Alfred Hospital, St. Vincent's Hospital, Women's Hospital, Children's Hospital, Eye and Ear Hospital, Infectious Diseases Hospital, Hospital for the Insane, Working Men's College, Swinburne Technical College, Ballarat School of Mines, Bendigo School of Mines, College of Pharmacy.

Lecturers :

- J. C. Lewis, *Veterinary Anatomy and Surgery*.
 S. S. Cameron, *Veterinary Hygiene and Diagnostics*.
 G. Sweet, *Veterinary Parasitology*.
 E. F. J. Bordeaux, *Veterinary Medicine and Obstetrics*.
 H. R. Seddon, *Veterinary Pathology and Bacteriology and Materia Medica*.
 1 Instructor.

FACULTY OF AGRICULTURE.**Professors :**

- D. O. Masson, *Chemistry*.
 W. E. Agar, *Biology*.
 E. W. Skeats, *Geology and Mineralogy*.
 A. J. Ewart, *Botany and Plant Physiology*.
 T. H. Laby, *Natural Philosophy*.

Lecturers :

- A. E. V. Richardson, *Agriculture*.
 E. J. C. Rennie, *Agricultural Engineering*.
 W. H. Green, *Chemistry*.
 A. C. D. Rivett, *Chemistry*.
 E. J. Hartung, " "
 G. Sweet, *Biology*.
 E. F. J. Love, *Natural Philosophy*.
 E. O. Hereus, " "
 W. M. Holmes, " "
 L. E. Hurley, *Histology and Human Embryology*.
 W. J. Young, *Bio-Chemistry*.
 H. S. Summers, *Geology*.
 L. A. I. Maxwell, *Physiology*.
 E. I. McLennan, *Botany*.
 5 Instructors.

FACULTY OF MUSIC.**Professor :**

W. A. Laver, *Music*.

Several part-time Assistants and Demonstrators.

ORMOND COLLEGE, University of Melbourne (College Reserve). (1879.)

The College is also the Theological Hall of the Presbyterian Church of Victoria, and has for that purpose an independent teaching staff. Normally students of the Theological Hall should have completed a University course in the College, but actually there have in recent years been large departures from this normal condition of affairs. Of the College resident students nine are Theological Hall students and others, five are University Arts students proceeding to the Theological Hall; three of the non-resident students are University students proceeding to the Theological Hall.

Terms : As those of University of Melbourne.

Students : Resident, 103; non-resident, 58 (1919).

Budget (1918):

Receipts: Fees, etc.	£5,644	4	7
Interest on Endowment	915	17	2
Total	£6,560	1	9
Expenditure: Salaries, etc.	£2,373	19	6
Repairs, etc.	427	6	10
Wages, Household, etc.	3,902	6	6
Total	£6,703	12	10

OFFICIALS.

Master.—David Kennedy Picken, M.A.

Vice-Master.—Horace William Allen, M.A.

Acting Vice-Master.—E. D. Ulrich, M.A.

Degrees and Hoods as those of University of Melbourne.

TUTORS.

Resident :

O. de R. Foenander, *History and Law*.

F. G. Morgan, *Pathology and Medicine*.

F. G. Middleton, *Anatomy*.

Non-Resident :

C. E. Weatherburn, *Mathematics and Natural Philosophy*.

Non-Resident—Continued :

J. McK. Stewart, *Prayers and Bible Lectures*.

F. H. Campbel, *Chemistry*.

G. V. Buchanan (Miss), *Botany and Zoology*.

I. M. Flinn (Miss), *Philosophy*.

E. Wood (Mrs.), *French and German*.

THEOLOGICAL HALL STAFF.

OFFICIALS.

President.—Rev. J. L. Rentoul, M.A., D.D.

Secretary.—Rev. D. S. Adam, M.A., D.D.

PROFESSORS.

Professors :

Rev. J. L. Rentoul, *New Testament Greek*.

Rev. D. S. Adam, *Systematic Theology and Church History*.

Professors—Continued :

Rev. A. Skene, *Hebrew and Old Testament*.

Lecturer :
Rev. J. Barnaby, *Paidcutics and English Bible*.

Together with the Master of Ormond College, the Chairman of the Theological Hall Committee and Sir John MacFarland (formerly Master of Ormond) constitute the Senators of the Theological Hall.

Libraries.—

Theological Hall Library. *Librarian* : Rev. A. Skene.

Ormond College Library. Shortly to be amalgamated in the MacFarlane

Memorial Library. (Statistics not at the moment available.)

QUEEN'S COLLEGE, Melbourne University Reserve. (1888.)

Queen's College is an affiliated College of the University of Melbourne, Victoria.

In the constitution of the Melbourne University provision was made for four affiliated Colleges, and pieces of land of about 10 acres in size were given in trust to the Anglican, Presbyterian, Methodist, and Roman Catholic Churches for this purpose. Queen's College is the College of the Methodist Church, and is governed by a Council appointed by the Methodist Conference of Victoria and Tasmania. All resident students must be under-graduates of the University; but complete freedom of teaching and worship is allowed.

Terms: As in the University of Melbourne.

Students (1919): 88.

Budget (1918):

Income	..	..	..	..	..	£3,733
Expenditure	..	..	..	..	..	4,364
Endowment for Scholarships				..	..	25,000

OFFICIALS.

Master.—Rev. Edward H. Sugden, M.A., B.Sc., Litt.D.

President of Council.—Rev. W. Morley, D.D.

Vice-President.—F. J. Cato.

Secretary.—Rev. T. B. Reed.

Bursar.—W. A. Newton.

Degrees and Hoods as in the University of Melbourne.

LECTURERS.

Rev. E. H. Sugden, *English Language and Literature*.

E. Lothian (Miss), *Classics*.

E. Wood (Mrs.), *French and German*.

I. M. Flinn (Miss), *Logic and Philosophy*.

S. T. S. Clyne, *History and Economics*.

C. M. T. Stafford

H. Hewitt, *Matriculation Subjects*.

Rev. A. E. Albiston, *Theology*.

Rev. F. J. Nance, *Hebrew*.

Rev. J. W. Grove, *Hellenistic Greek*.

E. Nelson (Miss), *Mathematics and Natural Philosophy*.

G. Buchanan (Miss), *Biology*.

F. H. Campbell, *Chemistry*.

L. E. Hurley, *Medical Subjects*.

Museums.—

Museum of Egyptian Antiquities.

Museum of Geological Specimens.

Museum of South Sea Islands Curiosities.

Libraries.—

General Library of about 10,000 volumes.

Special Library of original editions of the works of the Rev. John Wesley of about 400 volumes.

NATIONAL MUSEUM, Melbourne.

Honorary Director.—Sir W. Baldwin Spencer, K.C.M.G., F.R.S., D.Sc., Litt.D., Prof. of Biology in the Melbourne University.

Curator.—J. A. Kershaw, F.E.S.

Paleontologist.—F. Chapman, A.L.S.

Mineralogist.—P. B. Nye.

The National Museum contains the State Zoological, Paleontological, Mineralogical and Ethnological collections.

BOTANIC GARDENS, Melbourne. (1846)

Director.—W. R. Guilfoyle.

The National Herbarium contains the most complete collection of Australian plants in the world.

MIDDLETOWN (Connecticut).

WESLEYAN UNIVERSITY, Middletown, Conn. (1831.)

Terms : Two semesters.

Students : 415.

Budget :

Current Expenses (1917-18)	..	..	\$246,356,70.
Productive Endowment	..	..	\$2,575,223,20.

OFFICIALS.

President.—William A. Shanklin, L.H.D., LL.D.

Vice-President.—George M. Dutcher, Ph.D.

Dean.—Frank W. Nicolson, M.A.

Degrees conferred.—B.A., B.S., M.A., M.S.

PROFESSORS.

Professors :

- W. N. Rice, *Geology (Emeritus)*.
- C. T. Winchester, *English Literature*.
- M. B. Crawford, *Physics*.
- A. C. Armstrong, *Philosophy*.
- W. E. Mead, *English Language*.
- K. P. Harrington, *Latin*.
- F. W. Nicolson, *Latin*.
- C. A. Tuttle, *Economics and Social Science*.
- O. Kuhns, *Romance Languages*.
- W. A. Heidel, *Greek*.
- R. Dodge, *Psychology*.
- F. E. Farley, *English Literature*.
- W. G. Cady, *Physics*.
- R. H. Fife, *German*.
- G. M. Dutcher, *History*.
- J. W. Hewitt, *Classics*.
- E. Fauver, *Physical Education*.
- L. A. Howland, *Mathematics*.

Professors—Continued :

- B. H. Camp, *Mathematics*.
- C. R. Hoover, *Chemistry*.
- E. C. Schneider, *Biology*.

Associate Professors :

- C. H. Conley, *Rhetoric*.
 - G. A. Hill, *Chemistry*.
 - P. H. Curts, *German*.
 - A. Mann, jr., *Romance Languages*.
 - H. B. Goodrich, *Zoology*.
 - W. G. Foye, *Geology*.
 - H. M. Wriston, *History*.
 - H. B. Hall, *Economics*.
 - P. Burt, *History*.
 - E. S. Clark, *Romance Languages*.
 - L. P. Rice, *Economics and Social Science*.
 - W. C. Woods, *Biology*.
- 4 Instructors, 6 Assistants, 2 Lecturers, 1 Assistant Professor.

Post-Graduate Courses.—A few graduate students each year, to whom are offered the degrees M.A., and M.S.

Library.—114,000 bound volumes. Librarian : William J. James. M.A.

MINNEAPOLIS (Minnesota).

UNIVERSITY OF MINNESOTA, Minneapolis, Minnesota. (1868.)

Terms : Four per year.

Students (1917-18) : 5,567.

OFFICIALS.

President.—Marion Leroy Burton, Ph.D., D.D., LL.D.

Registrar.—E. B. Pierce, B.A.

Librarian.—J. T. Gerould.

Degrees conferred.—Ph.D., M.A., M.S., B.S., C.E., E.E., M.E., Architect, LL.B., M.B., M.D., Graduate in Nursing, D.D.S., E.M., Met.E., Phar.Chem., Graduate in Pharmacy, Chem.E.

Post-Graduate Courses.—Graduate work in all major fields of sciences, letters and humanities, agriculture, and clinical medicine. In the latter field part of the work is done at Rochester, Minnesota, with the support of the Mayo Foundation and the faculties of the Mayo Clinic.

Institutes, etc.—Minnesota Historical Society, St. Paul, Minnesota, with library of Minnesota Academy of Social Sciences.

MISSOULA (Montana).

STATE UNIVERSITY OF MONTANA, Missoula, Montana. (1893.)

In 1913 a legislative enactment was made combining the State University (Missoula, Mont.), the State College of Agriculture and Mechanic Arts (Bozeman, Mont.), the State School of Mines, (Butte, Mont.), and the State Normal School (Dillon, Mont.) into the Greater University of Montana, under the executive control of an officer whose title is Chancellor.

Terms : Three regular quarters of 12 weeks each and a summer quarter, including two terms of 6 and 5 weeks respectively.

Students : 1,380.

Budget :

Maintenance	\$250,000.
Buildings and Grounds	\$60,000.

OFFICIALS.

Chancellor.—Edward C. Elliott, Ph.D.

President.—Edward O. Sisson, Ph.D.

Vice-President.—Frederick C. Scheuch, M.E., A.C.

Dean of Men.—Richard H. Jesse, jr., Ph.D.

Dean of Women.—Mrs. K. W. Jameson, Ph.D.

Dean of the School of Journalism.—A. L. Stone, B.S.

Dean of the School of Forestry.—Dorr Skeels, B.S.

Dean of the School of Law.—C. H. Leaphart, A.B., A.M., LL.B.

Dean of the School of Music.—De Loss Smith.

Dean of the School of Pharmacy.—C. E. Mollet, Ph.C.

Registrar and Secretary of the Faculty.—James B. Speer, B.A., LL.B.

Degrees conferred.—B.A., B.Se.

PROFESSORS.

COLLEGE OF ARTS AND SCIENCE.

Professors :

- H. G. Merriam, *Latin and Greek*.
 S. J. Cook, *Business Administration*.
 F. Corbin, *English*.
 A. C. Coon, *Military Science and Tactics*.
 F. Daughters, *Education*.
 M. J. Elrod, *Biology*.
 R. H. Jesse, jr., *Chemistry*.
 J. E. Kirkwood, *Botany*.
 N. J. Lennes, *Mathematics*.
 P. C. Phillips, *History*.
 J. P. Rowe, *Geology*.
 F. C. Scheuch, *Modern Languages*.
 W. E. Schreiber, *Physical Education*.
 E. O. Sisson, *Education*.
 F. O. Smith, *Psychology*.
 J. H. Underwood, *Economics*.
 E. S. Whitcomb (Miss), *Home Economics*.

Associate Professor :

W. G. Bateman, *Chemistry*.

Assistant Professors :

- A. W. Rimes, *Education and Psychology*.
 A. C. Bevan, *Biology*.
 E. F. A. Carey, *Mathematics*.
 E. Clarke (Miss), *Home Economics*.

Assistant Professors—Continued :

- I. E. Gittings (Miss), *Physical Education*.
 P. W. Graff, *Botany*.
 J. W. Howard, *Chemistry*.
 H. S. Hughes (Miss), *English*.
 H. M. Jones, *English*.
 W. N. Jones, *Chemistry*.
 L. Leyden (Miss), *Physical Education*.
 G. F. Lassky, *Modern Languages*.
 A. S. Merrill, *Mathematics*.
 J. E. Miller, *History*.
 A. Orbeck, *English*.
 W. G. Owen, *Biology*.
 F. D. Schwalm, *Fine Arts*.
 R. N. Thompson, *Physics*.
 11 Instructors, 3 Assistants.

SCHOOL OF FORESTRY.

Professors :

- D. Skeels, *Forestry*.
 T. C. Spaulding, *Forestry*.

Assistant Professors :

- C. F. Farmer, *Forestry*.
 R. R. Fenska, "
 1 Instructor.

SCHOOL OF JOURNALISM.

Professor :

- W. E. Christenson, *Journalism*.

Assistant Professor :

R. D. Casey, *Journalism*.
3 Special Lecturers.

SCHOOL OF LAW.

Professors :

C. H. Leaphart, *Law*.
W. L. Pope, *Law*.
L. M. Simers, *Law*.
A. N. Whitlock, *Law*.
1 Special Lecturer.

SCHOOL OF MUSIC.

Professors :

De Loss Smith, *Music*.
J. Swenson (Miss), *Piano*.

Professors—Continued :

A. H. Weisberg, *Piano*.
1 Instructor, 2 Assistants.

Assistant Professor :

H. M. Gardner (Miss), *Public School Music*.
2 Assistants.

SCHOOL OF PHARMACY.

Professor :

C. E. Mollet, *Pharmacy*.

Assistant Professor :

F. J. Zack, *Pharmacy*.
2 Assistants, 1 Instructor.

Institute.—Biological Station, Flathead Lake, Montana.
Libraries.—University Library. Law Library.

MONTREAL (Canada).

McGILL UNIVERSITY, Montreal, Canada. (1821.)

Terms : Two a year.

Students : 1,356.

Budget : \$892,000,000.

OFFICIALS.

Principal.—General Sir Arthur Currie, LL.D.

Vice-Principal.—C. E. Moyses, B.A., LL.D.

Secretary and Bursar.—A. P. S. Glasco, B.Sc.

Registrar.—J. A. Nicholson, M.A., LL.D.

Degrees conferred :

Degrees.

	<i>Hoods.</i>
B.A. - - -	Hood black silk, lined with pale blue silk, and edged with white fur.
B.Sc. - - -	Hood black silk, lined with yellow silk, and edged with white fur.
B.Sc. (Agric.) - - -	Hood black silk, lined with dark green silk, and edged with white fur.
B.C.L. - - -	Hood black silk, lined with French grey silk, and edged with white fur.
LL.B. - - -	Hood black silk, lined with scarlet silk, and edged with white fur.
B.Arch. - - -	Hood black silk, lined with white silk, and edged with white fur.
Mus.Bac. - - -	Hood black silk, lined with pale mauve silk, and edged with white fur.
M.A. - - -	Hood black silk, lined with pale blue silk.
M.Sc. - - -	Hood black silk, lined with yellow silk.
LL.M. - - -	Hood black silk, lined with scarlet silk.
M.D. - - -	Hood scarlet cloth, lined with dark blue silk.
D.D.S. - - -	Hood scarlet cloth, lined with pink silk.
LL.D. - - -	Hood scarlet cloth, lined with white silk.
D.Litt. - - -	Hood scarlet cloth, lined with pale blue silk.
D.Sc. - - -	Hood scarlet cloth, lined with yellow silk.
D.C.L. - - -	Hood scarlet cloth, lined with French grey silk.
Mus.Doc. - - -	Hood scarlet cloth, lined with pale mauve silk.
Ph.D. - - -	Hood scarlet cloth, lined with pale green silk.

PROFESSORS.

FACULTY OF ARTS.

Professors :

C. E. Moyses, *English Language and Literature*.
C. W. Colby, *History*.
H. Walter, *Modern Languages*.
J. Harkness, *Pure Mathematics*.

Professors—Continued :

W. Caldwell, *Moral Philosophy*.
P. T. Lafleur, *Comparative Literature*.
J. A. Dale, *Education*.
H. C. Perrin, *Music*.
S. Leacock, *Political Economy*.
A. Willey, *Zoology*.

Professors—Continued.

- C. A. B. Brockwell, *Hebrew and Semitic Languages.*
 R. F. Ruttan, *Chemistry.*
 F. E. Lloyd, *Botany.*
 S. B. Slack, *Classics.*
 A. S. Eve, *Physics.*
 J. A. Bancroft, *Geology.*
 R. du Roure, *French.*
 J. W. A. Hickson, *Logic and Metaphysics.*
 R. W. Lee, *Roman Law.*
 C. M. Derick (Miss), *Morphological Botany.*

Associate Professors :

- N. N. Evans, *Chemistry.*
 J. C. Simpson, *Histology and Embryology.*
 C. E. Fryer, *History.*
 J. C. Hemmeon, *Economics.*
 L. King, *Physics.*
 T. R. Davies, *Mathematics.*
 A. N. Shaw, *Physics.*
 A. R. Gordon, *Hebrew.*
 V. J. Harding, *Biological and Physiological Chemistry.*
 C. Lichtenstein (Miss), *Music.*
 J. A. Gray, *Physics.*
 C. Macmillan, *English.*
 F. M. G. Johnson, *Chemistry.*

Assistant Professors :

- J. I. Morin, *Modern Languages.*
 R. P. D. Graham, *Minerology.*
 W. D. Tait, *Psychology.*
 C. T. Sullivan, *Mathematics.*
 V. K. Krieble, *Chemistry.*
 E. T. Lambert, *Modern Languages.*
 N. E. Wheeler, *Physics.*
 H. E. Reilly
 G. W. Latham, *English.*
 13 Lecturers, 10 Demonstrators.

FACULTY OF APPLIED SCIENCE.

Professors :

- F. D. Adams, *Geology and Paleontology.*
 J. B. Porter, *Mining Engineering.*
 A. Stansfield, *Metallurgy.*
 D. A. Murray, *Applied Mathematics.*
 H. M. Mackay, *Civil Engineering.*
 L. A. Herdt, *Electrical Engineering.*
 E. Brown, *Applied Mechanics and Hydraulics.*
 R. Traquair, *Architecture.*
 P. E. Nobbs, *Design.*

Associate Professors :

- H. F. Armstrong, *Freehand Drawing and Descriptive Geometry.*
 A. R. Roberts, *Mechanical Engineering.*
 C. M. McKergow, *Mechanical Engineering.*
 C. V. Christie, *Electrical Engineering.*
 J. W. Bell, *Mining Engineering.*

Assistant Professors :

- C. Batho, *Applied Mechanics and Mathematics.*
 H. M. Lamb, *Civil Engineering and Lecturer in Architecture.*
 E. G. Burr, *Electrical Engineering.*
 A. J. Kelly, *Surveying.*
 J. Weir, *Surveying.*
 13 Lecturers, 13 Demonstrators.

FACULTY OF LAW.

Professors :

- R. W. Lee, *Roman Law.*
 A. McGoun, *Civil and Municipal Law.*
 W. de M. Marler, *Civil Law.*
 E. Lafleur, *Public International Law.*
 Hon. Sir C. Davidson, *Criminal Law.*
 A. Geoffron, *Civil Law.*
 G. W. McDougall, *Commercial and Private International Law.*
 Hon. Mr. Justice P. B. Mignault, *Legal Ethics.*
 E. Fabre Surveyer, *Civil Procedure.*
 E. E. Howard, *Commercial Law.*
 Hon. Mr. Justice, R. A. E. Green-shields, *Associate Professor of Criminal Law.*
 3 Lecturers.

FACULTY OF MEDICINE.

Professors :

- H. S. Birkett, *Oto-Laryngology.*
 A. D. Blackader, *Pharmacology and Therapeutics, and of Pediatrics.*
 F. G. Finley, *Medicine and Clinical Medicine.*
 H. A. Lafleur, *Medicine and Clinical Medicine.*
 G. E. Armstrong, *Surgery and Clinical Surgery.*
 T. A. Starkey, *Hygiene.*
 J. W. Stirling, *Ophthalmology.*
 C. F. Martin, *Medicine and Clinical Medicine.*
 A. B. J. Moore, *Materia Medica and Pharmacy.*
 W. W. Chipman, *Obstetrics.*
 J. A. Hutchison, *Surgery.*
 D. D. McTaggart, *Medical Jurisprudence.*
 S. E. Whitnall, *Anatomy.*
 J. Tait, *Physiology.*
 A. W. Thornton, *Crown and Bridge Work.*
 F. G. Henry, *Dental Pathology, Dental Materia Medica and Therapeutics.*
 F. H. A. Baxter, *Operative Dentistry.*
 J. B. Morrison, *Orthodontia.*
 G. S. Cameron, *Prosthetic Dentistry.*
 6 Associate Professors, 5 Assistant Professors, 8 Lecturers, 1 Demonstrator.

FACULTY OF AGRICULTURE.

Professors :

- F. C. Harrison, *Bacteriology*.
 W. Lochhead, *Biology*.
 C. J. Lynde, *Physics*.
 J. F. Snell, *Chemistry*.

Professors—Continued.

- H. Barton, *Animal Husbandry*.
 T. G. Bunting, *Horticulture*.
 R. Summerby, *Cereal Husbandry*.
 12 Lecturers, 1 Instructor, 3 Assistants,
 1 Veterinarian, and 9 Assistants.

Post-Graduate Courses.—Leading to M.A., M.Sc., LL.M., D.C.L., and Ph.D.

Museums.—

- Museum of Architecture.
 Museum of Hygiene. *Director* : T. A. Starkey.
 Museum of Pathology. *Director* : Horst Oertel.
 Peter Redpath Museum of Natural History. *Hon. Curator* : A. Willey.

University Library of 165,660 volumes and 25,000 pamphlets. *Librarian* : G. R. Lomer, M.A., Ph.D.

AFFILIATED INSTITUTIONS.

- Acadia University, Wolfville, N.S.
 Alberta University, Edmonton.
 Mount Allison University, Sackville, N.B.
 The University of St. Francis Xavier's College, Antigonish, N.S.
 Royal Military College, Kingston.
 Congregational College of Canada, Montreal.
 Diocesan College of Montreal.
 Presbyterian College of Montreal.
 Wesleyan College of Montreal.

UNIVERSITY OF MONTREAL, Canada. (1876.)

(Formerly Laval University Montreal Branch.)

The University, which was only a Branch of the Quebec Laval University from 1876 to 1919, received its canonical independence from Rome in 1919. It is expected that the Provincial Legislature will grant its civil independence at the next session. The denomination is Roman Catholic, and most of the Lectures are given in French.

Terms : Two a year. *Students* : 4,205.
University Budget : Each Faculty and School has its own.

OFFICIALS.

- Chancellor.*—His Grace Mgr. Paul Bruchési, Archbishop of Montreal.
President.—His Lordship Mgr. Georges Gauthier, Auxiliary Bishop to His Grace.
General Secretary.—Canon Émile Chartier.

Board of 12 Governors.

Degrees conferred.—D.D., C.L.L., L.L.L., LL.D., M.D., B.L., B.Sc., B.A., M.A., Ph.D., C.I., B.A.S., B.Arch., V.S.D., D.S.D., B.Ph., D.Ph., B.Agr.Sc., D.Agr.Sc., L.C. Also different Diplomas for the other Schools.

PROFESSORS.

FACULTY OF ARTS.

Professors :

- R. Gautheron, *French Literature*.
 E. Montpetit, *Economy*.
 G. Vanier " "
 J. B. Legacé, *History of Art*.
 N. Charbonneau, *Theory of Gregorian Chants*.
 A. Pineault, *Theory of Gregorian Chants*.
 E. Chartier, *Pedagogy*.
 L. Groulx, *History of Canada*.

FACULTY OF MEDICINE.

Professors :

- D. Mignault, *Anatomy*.
 E. Virolle, " "

Professors—Continued:

- E. Latreille, *Pathological Anatomy*.
 C. St. Pierre " "
 N. Delorme, *Practical Anatomy*.
 G. Moreau " "
 A. Ferrou " "
 A. Paré " "
 G. Lefebvre " "
 R. Toupin " "
 A. Bernier, *Bacteriology*.
 F. Jeannotte " "
 H. Aubry " "
 A. Rivet, *Toxicology*.
 G. Baril " "
 H. Larouche " "
 Z. Rheaume, *Operative Surgery*.

Professors—Continued :

- A. Gagnon, *Operative Surgery.*
- R. Archambault, " "
- S. Boucher, *Histology.*
- A. Laurence, *Pharmacy.*
- E. Aselin, *Physiology.*
- E. Persillier-Lachapelle, *History of Medicine.*
- A. Mercier, *History of Medicinc.*
- C. Valin, *Hygiene.*
- J. Baudouin, " "
- E. Fortier, *Materia Medica.*
- G. Mignoult, " "
- T. Parizeau, *Surgical Pathology.*
- B. Bourgeois, " "
- A. Lesage, *Internal Pathology.*
- D. Masson, *Applied Therapeutics.*

FACULTY OF THEOLOGY.

Professors :

- H. Jeannotte, *Ecclesiastical Music.*
- J. E. Dorvaux, *Canonical Law and Moral Theology.*
- A. Pasquier, *Canonical Law and Moral Theology.*
- F. Duchemin, *Canonical Law and Moral Theology.*
- B. Gattet, *Holy Writing.*
- V. Jacob, " "
- L. François, *Holy Writing and French.*
- V. Many, *Hebrew.*
- L. Perrin, *Ecclesiastical History.*
- R. Neveau, " "
- R. Allard, *Diagnostic Theology.*
- F. Lelandais, *Pastoral Theology.*

FACULTY OF LAW.

Professors :

- V. Morin, *Administrative Law.*
- Sir A. Lacoste, *Commercial and Maritime Law.*
- A. Perrault, *Commercial and Maritime Law.*
- P. Cousineau, *Constitutional and Municipal Law.*
- Judge C. Chamilly de Lorimier, *Criminal Law.*
- S. Morin, *Criminal Law.*
- Sir H. Archambeault, *Financial, Commercial, and Industrial Legislation.*
- Hon. N. Perodeau, *Financial, Commercial, and Industrial Legislation.*
- Sir L. Jette, *Civil Law.*
- Judge P. Demers, *Civil Law.*
- Judge E. Lafontaine, *Civil Law.*
- Hon. R. Lemieux, *International Law and History of Law.*
- E. Montpetit, *Roman Law and Political Economy.*
- R. Taschereau, *Civil Procedure.*

SCHOOL OF APPLIED SCIENCE.

- A. Pelletier, *Higher Algebra.*
- J. Poivert, *Architecture.*
- J. Haynes, *Construction Architecture.*

School of Applied Science—Continued :

- A. Beaugrand-Champagne, *History of Architecture.*
- P. Charton, *Topography.*
- E. Beaupré, *Differential and Integral*
- J. Leluau, *Hydraulics.* [Calculus.]
- L. Bourguoin, " "
- A. Quéva, " "
- A. S. Baulne, *Construction of Metals.*
- E. Dyonnet, *Design.*
- J. Haynes, " "
- E. Beaupré, " "
- A. Beaugrand-Champagne, *Design.*
- A. Villeneuve, *Electricity.*
- A. Frigon, *Electrotechnics.*
- Abbe O. Maurault, *French.*
- T. Lafrenière, *Sanitary Science.*
- C. Manseau, *Analytical Geometry and Geodesy.*
- A. Fyen, *Descriptive Geometry.*
- A. Larue, " "
- E. Montpetit, *Industrial Legislation.*
- A. Fyen, *Mathematics.*
- H. Labrecque, " "
- A. Pelletier, " "
- E. Desaulniers, *Mechanics.*
- E. Dyonnet, *Modelling.*
- E. Dulieux, *Mines.*
- A. Mailhiot, " "
- A. Dollo, *Physics.*

SCHOOL OF COMPARATIVE MEDICINE.

- T. Daubigny, *Anatomy.*
- L. J. Demers, *Pathological Anatomy.*
- O. Laroche, *Practical Anatomy.*
- C. Reid, *Chemistry of Foods.*
- W. Derome, *Physiology.*
- E. Benoit, *Materia Medica.*
- E. Persillier-Lachapelle, *Legal Medicine.*
- L. P. Lorrain, *Obstetrics.*
- D. Généreux, *Internal Pathology.*
- A. Dauth, *General Pathology.*
- G. Dujardin, *Veterinary Hygiene.*

SCHOOL OF DENTAL SURGERY.

- A. Duhamel, *General Anatomy.*
- A. Beauchamp, *Anesthetics.*
- R. Hébert, *Auscultation.*
- H. Aubry, *Bacteriology.*
- J. Nolin, *Operative Dentistry.*
- L. de Guise, " "
- J. Décarie, *Histology.*
- Avocat A. Marsan, *Dental Jurisprudence.*
- A. Laroche, *Materia Medica.* [dence.]
- T. Lassencur, *Radiology.*
- E. Dubeau, *Dental Pathology.*
- H. Dufresne, *Physiology.*
- H. Laplante-Courville, *Physics and Chemistry.*
- J. Gendreau, *Dental Anatomy and Physiology.*
- W. Saint-Pierre, *Dental Anatomy and Physiology.*

INSTITUTE OF AGRICULTURE

(see La Trappe).

SCHOOL OF COMMERCE.

- C. Mansseau, *Commercial Algebra*.
- P. Malone, *English*.
- C. Mansseau, *Commercial Arithmetic*.
- P. Riou, *General Arithmetic*.
- H. Laplante-Courville, *Chemistry*.
- V. Doré, *Accountancy*.
- L. Favreau "
- P. Malone, *Commercial Correspondence (English)*.
- L. Lorrain, *Commercial Correspondence (French)*.
- A. Dollo, *Design*.

School of Commerce—Continued:

- C. Laurendeau, *Civil Law*.
- H. Archambeault, *Commercial Law*.
- A. Garay-Porro, *Spanish*.
- L. Lorrain, *French*.
- H. Laureys, *Economic Geography*.
- L. Groulx, *Commercial History*.
- G. Nelli, *Italian*.
- A. Giroux, *Customs Law*.
- V. Doré, *Commercial Operations*.
- T. Marot "
- E. Vidricaire, *Commercial Operations*.
- O. Gauthier, *Moral Philosophy*.
- A. Dollo, *Physics*.
- E. Fontaine, *Advertising*.
- E. Montpetit, *Economic Science*.
- H. Laureys, *Technology*.

Post-Graduate Courses.—School of Pedagogy, for teachers of Primary Education. Vacation Lecturers, for the teachers of Secondary Education.

Libraries and Librarians, etc.—General Library, 80,000 volumes. *Librarian:* Canon Emile Chartier.

Each Faculty and School has its own private library. *Librarians:* Antonio Perrault (Law); Dr. Philippe Chagnon (Medicine); Rod Barthéleme Gattet, P.S.S. (Divinity).

AFFILIATED INSTITUTIONS.

- Divinity School.
- Polytechnic (Civil Engineering and Architecture).
- Faculty of Commerce.
- Agricultural College.
- School of Music.
- School of Drawing.
- School of Domestic Science.
- 11 Colleges for boys (High School and Arts Course).
- Notre Dame Ladies' College.

ÉCOLE DE PHARMACIE, UNIVERSITÉ DE MONTRÉAL, Montreal. (1906.)

Terms: September to April.

Students: 200.

OFFICIALS.

- President.*—Joseph Contant, Ph.D.
- Vice-President.*—J. E. W. Lecours.
- Secretary-Director.*—A. J. Laurence.
- Degrees conferred.**—Ph.B., Ph.D.

PROFESSORS.

- | | |
|---|---|
| <ul style="list-style-type: none"> J. Constant, <i>Pharmaceutical Jurisprudence</i>. J. E. W. Lecours, <i>Materia Medica</i>. A. J. Laurence, <i>Bio-Chemistry and Pharmacy</i>. H. Lanctot, <i>Analytical Chemistry</i>. | <ul style="list-style-type: none"> H. L. Courville, <i>Analytical Chemistry</i>. E. Vadboncoeur, <i>Pharmacy</i>. A. D. Quintin, <i>Pharmaceutical Physics</i>. J. Bontin, <i>Toxicology</i>. J. Flahault, <i>Organic Chemistry</i>. H. Pilon, <i>Botany</i>. |
|---|---|

ROYAL CANADIAN ACADEMY OF ARTS, 255, Bleury St., Montreal. (1880.)

Objects.—To further the cause of Fine Arts in Canada. Comprises 30 Academicians and 47 Associates.

OFFICIALS.

- President.*—Homer Watson.
- Treasurer.*—G. A. Reid.
- Vice-President.*—Edward Maxwell.
- Secretary.*—E. Dyonnet.

MORGANTOWN (West Virginia).**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.***Director.*—J. L. Coulter.**MOSCOW (Idaho).****EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.***Director.*—E. J. Iddings.**MOUNTAIN GROVE (Missouri).****EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.***Director.*—F. W. Faurot.**MOUNT HAMILTON (California).****LICK OBSERVATORY, Mount Hamilton, Santa Clara County, California.**

The Lick Observatory is a Research Department of the University of California. James Lick's first deed of trust was executed in 1874, and the Observatory was completed and its active research work begun in 1888.

STAFF.*Director and Astronomer.*—William Wallace Campbell.*Astronomers.*—

Richard Hawley Tucker.

William H. Wright.

Robert Grant Aitken.

Heber D. Curtis.

Associate Astronomer.—Joseph H. Moore.*Acting Astronomer (Santiago, Chile).*—George F. Paddock.

Three Assistants (one in Chile). Five Fellows.

Secretary.—Mrs. A. G. Marshall.**Publications.**—

Publications of the Lick Observatory; quarto, Vols. I. to XIII.

Lick Observatory Bulletin; quarto, Vol. X. current.

Contributions from the Lick Observatory; octavo, Nos. 1 to 5. (Discontinued.)

Library.—Reference and astronomical, about 8,500 volumes.

The Mills Observatory (on the summit of Cerro San Cristobal, Santiago, Chile, Dr. Paddock in charge), is a temporary branch of the Lick Observatory.

MYSORE (India).**UNIVERSITY OF MYSORE, Mysore, India. (1916.)**

Constituent Colleges:

Maharaja's College, Mysore.

Central College, Bangalore.

Maharani's Women's College, Mysore.

College of Engineering, Bangalore.

Terms: Two a year—January to April, and July to December.*Students:* 737.*Budget:* The University is State-supported except for fees and endowments.

Estimated Receipts Rs. 9,71,555

Estimated Expenditure Rs. 8,96,087

OFFICIALS.

Chancellor.—Col. Sir Sri Krishnaraja Wadiyar Bahadur, G.C.S.I., His Highness the Maharaja of Mysore.

Pro-Chancellor.—Sir Sri Kantirava Narasimharaja Wadiyar Bahadur, G.C.I.E., His Highness the Yuvaraja of Mysore.

Vice-Chancellor.—Rajamantra Pravina, H. V. Nanjundayya, M.A., M.L., C.I.E.

Officiating Registrar.—V. Subrahmanyadya, B.A.

Degrees conferred :

<i>Degrees.</i>	<i>Hoods.</i>
B.A. -	Black with yellow lining.
B.Sc. -	Yellow with black silk lining.
M.A. -	Black with yellow lining and yellow border.
M.Sc. -	Yellow with black silk lining and black border.
B.T. -	Black with blue silk lining.
D.Litt. -	Sky blue.
D.Sc. -	Dark red.

PROFESSORS.

A. B. Mackintosh, <i>English.</i>	E. P. Metcalfe, <i>Physics.</i>
J. C. Rollo "	F. L. Usher, <i>Chemistry.</i>
F. R. Sell "	M. G. S. Rao "
E. G. McAlpine "	W. T. Narayana Iyengar, <i>Mathe-</i>
S. G. Hensman (Mrs.), <i>English.</i>	<i>matics.</i>
M. Hiriyanna, <i>Sanskrit.</i>	V. S. Sambasiva Iyer, <i>Geology.</i>
R. Mookerji, <i>History.</i>	C. R. Narayana Rao, <i>Zoology.</i>
K. Iyengar "	M. A. Sampathkumaran, <i>Botany.</i>
N. S. Subba Rao, <i>Economics.</i>	4 Junior Professors, 5 Assistant Pro-
A. R. Wadia, <i>Philosophy.</i>	fessors, 5 Tutors, 6 Lecturer, 2 Visit-
S. Radhakrishnan, <i>Philosophy.</i>	ing Lecturers, 9 Demonstrators. 9
K. T. Shah, <i>Commerce.</i>	Pandits, 2 Munshis.

Post-Graduate Courses.—M.A. courses in Arts subjects at the Maharaja's College, Mysore, and M.Sc. courses in Science subjects at the Central College, Bangalore. Facilities are being given for post-graduate research work.

Institutes, Museums, and Learned Societies.—Both at Mysore and Bangalore, University Unions have been instituted and accommodated in commodious buildings. A Museum is being organized. There is a Publication Bureau to encourage the publication of original works, and an Extension Lecture Committee to organize University Extension Lectures for the benefit of the public.

Libraries.—In addition to the libraries attached to the several constituent Colleges, and the several class libraries, there are two libraries, the University Library at Mysore and the Oriental Library, comprising manuscripts and several valuable books on Oriental literature.

Librarian of University Library : N. Narasimha Moorthy, M.A., B.L.
Curator of Oriental Library : R. Shama Sastry, B.A.

NASHVILLE (Tennessee).

VANDERBILT UNIVERSITY, Nashville, Tennessee. (1873.)

Terms : Three a year.

Students : 1,000.

Budget : \$300,000.

OFFICIALS.

Chancellor.—J. H. Kirkland, LL.D., D.C.L., Ph.D.

President.—W. R. Cole.

Vice-Presidents.—G. B. Winton, W. T. Sanders.

Bursar.—J. E. Hart.

Registrar.—Mrs. M. W. Haggard.

Degrees conferred.—B.S., M.S., D.Se., B.A., M.A., Ph.D., B.E., C.E., M.E., B.D., LL.B., M.D., Ph.G., Ph.C., D.D.S.

PROFESSORS.

COLLEGE OF ARTS AND SCIENCE.

Professors:

- H. C. Tolman, *Greek Language and Literature.*
 J. Daniel, *Physics.*
 L. C. Glenn, *Professor of Geology.*
 E. Mims, *Professor of English Language and Literature.*

Professors—Continued:

- B. E. Young, *Romance Languages and Literature.*
 W. L. Fleming, *History.*
 J. H. Ransom, *Chemistry.*
 G. P. Anderson, *Military Science and Tactics.*
 J. M. Buckinridge, *Chemistry.*

Associate Professors :

- A. M. Harris, *Public Speaking and Debate.*
 R. B. Steele, *Latin.*
 H. C. Sanborn, *Philosophy.*
 E. E. Reinke, *Biology.*
 G. W. Dyer, *Economics and Sociology.*
 G. P. Jackson, *German.*
 G. R. Mayfield, *German.*

Assistant Professors :

- C. M. Sarratt, *Mathematics.*
 E. L. Johnson, *Latin and Greek.*
 W. C. Curry, *English.*
 W. P. Ott, *Mathematics.*

**SCHOOLS OF MEDICINE,
 PHARMACY, AND DENTISTRY.**

Professors :

- J. T. McGill, *Organic Chemistry, and Dean of the School of Pharmacy.*
 D. Eve, *Surgery and Clinical Surgery.*
 J. A. Witherspoon, *Medicine and Clinical Medicine.*
 G. H. Priece, *Diseases of the Eye, Ear, Nose, and Throat.*
 W. H. Witt, *Medicine and Clinical Medicine.*
 J. T. Altman, *Obstetrics.*
 R. A. Barr, *Surgery and Clinical Surgery.*
 L. E. Burch, *Gynecology.*
 W. Litterer, jr., *Bacteriology.*
 W. A. Bryan, *Surgery, Clinical Surgery, and Oral Surgery.*
 O. H. Wilson, *Diseases of Children.*
 M. C. McGannon, *Surgery and Clinical Surgery.*
 S. S. Crockett, *Nervous and Mental Diseases.*
 J. P. Keller, *Therapeutics.*
 A. N. Hollabaugh, *Obstetrics.*
 B. F. Hambleton, *Physiology and Pharmacology.*
 J. M. King, *Dermatology and Electro-Therapeutics.*
 R. O. Tucker, *Obstetrics.*
 W. D. Haggard, *Surgery and Clinical Surgery.*
 T. H. Wood, *Diseases of the Eye, Ear, Nose, and Throat.*
 R. Caldwell, *Surgical Anatomy.*
 P. Bromberg, *Genito-Urinary Surgery.*
 M. Glasgow, *Therapeutics.*
 W. E. Hibbett, *Preventive Medicine and Hygiene.*
 G. M. Curtis, *Microscopic Anatomy.*
 B. T. Terry, *Pathology.*
 E. A. Ruddiman, *Materia Medica and Pharmacy.*
 H. W. Morgan, *Operative Dentistry.*
 J. A. Dale, *Prosthetic Dentistry, Crown and Bridge Work.*

Professors—Continued :

- L. G. Noel, *Clinical Dentistry and Dental Medicine.*
 R. B. Bogle, *Oral Hygiene, Radiography, and Exodontia.*
 Y. W. Haley, *Materia Medica, Therapeutics, and Anesthesia.*
 J. H. Phillips, *Dental Anatomy and Operative Technic.*

Associate Professors :

- D. Eve, jr., *Surgery.*
 A. W. Harris, *Nervous Diseases and Instructor in Medicine.*
 H. M. Tigert, *Gynecology.*
 W. McCabe, *Surgery.*
 O. N. Bryan, *Medicine.*
 W. A. Oughterson, *Medicine.*
 S. J. Ross, *Bacteriology, and Pathology.*
 O. A. Oliver, *Orthodontia.*

Assistant Professors :

- J. Witherspoon, *Medicine.*
 H. Cummins, *Microscopic Anatomy.*
 J. F. Gallagher, *Gynecology.*
 C. N. Cowden, ,

SCHOOL OF ENGINEERING.

Professors :

- W. H. Schuerman, *Pure and Applied Mathematics.*
 C. S. Brown, *Mechanical Engineering.*

Assistant Professor :

- R. H. McNeilly, *Civil Engineering.*

SCHOOL OF LAW.

Professors :

- J. B. Keeble, *Law, and Dean of the School of Law.*
 W. K. McAllister, *Law.*
 E. T. Seay, *Law.*
 F. Hall, *Law.*
 W. C. Cherry, *Law.*
 T. H. Malone, ,
 M. P. O'Connor, ,
 J. W. Moore, ,
 H. B. Schermerhorn, *Law.*

Assistant Professor :

- A. S. Dabney, *Medical Jurisprudence.*

SCHOOL OF RELIGION.

Professors :

- W. F. Tillett, *Systematic Theology, Religion.*
 O. E. Brown, *Biblical and Ecclesiastical History.*
 J. H. Stevenson, *Hebrew and Old Testament Exegesis.*
 H. B. Carre, *Biblical Theology and English Exegesis.*
 C. A. Scott, *Church History and Missions.*
 39 Instructors, Fellows, and Lecturers,
 32 Demonstrators and Assistants.

Post-Graduate Courses.—Leading to M.A., M.S., Ph.D., and D.Sc. degrees.

Library.—University Library. Contains 71,000 volumes.

Museums.—

Museum of Theology.

Astronomical Observatory.

NATAL, UNIVERSITY OF. See PIETERMARITZBURG.

NEBRASKA, UNIVERSITY OF. See LINCOLN.

NEBRASKA UNIVERSITY COLLEGE OF MEDICINE. See OMAHA.

NEVADA UNIVERSITY. See RENO.

NEWARK (Delaware).

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—H. Hayward.

NEW BRUNSWICK UNIVERSITY. See FREDERICTON.

NEW BRUNSWICK (New Jersey).

RUTGERS COLLEGE. (The State University of New Jersey.)

Founded as Queen's College, 1766.

Students: Men, 625; Women, 125; total in all affiliated branches, approximately 1,300.

Terms: Two Semesters a year.

OFFICIALS.

President.—W. H. S. Demarest, D.D., LL.D.

Dean.—Professor Louis Bevier, Ph.D.

Registrar.—Luther H. Martin.

Degrees conferred.—B.A., Litt.B., B.Sc., M.A., M.Sc., Ph.D., C.E., E.E., M.E., Cer.A.

No particulars of Teaching Staff received.

Post-Graduate Courses in all Departments.

Library.—Voorhees Library, 102,300 volumes.

Museums.—Geological Museum and Departmental Collections.

Learned Societies.—Phi Beta Kappa.

AFFILIATED INSTITUTIONS.

New Jersey State Experiment Station.

New Jersey State College for Women.

Summer Station, State University of New Jersey.

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—J. G. Lipman.

NEWCASTLE.

ARMSTRONG COLLEGE. See DURHAM.

NEW HAVEN (Connecticut).

YALE UNIVERSITY, New Haven, Conn. (1701.)

Terms: Two per year.

Students: 1916-17, 2,667; 1917-18, 1,627; 1918-19, 2,051.

Budget: 1917-18, \$1,846,000.00. 1918-19, \$2,000,000.00.

OFFICIALS.

President.—Arthur Twining Hadley, Ph.D., LL.D.

Acting Provost.—Rev. William Adams Brown, Ph.D., D.D.

Treasurer.—George Parnly Day, M.A.

Bursar.—Frederic B. Johnson, B.A.

Secretary.—Rev. Anson Phelps Stokes, D.D.

Assistant Secretary.—Minott A. Osborn, M.A.

Chairman of the Committee on Admission.—Robert N. Corwin, Ph.D.

YALE COLLEGE.

Dean.—Frederick S. Jones, LL.D.

Registrar.—A. K. Merritt, B.A.

SHEFFIELD SCIENTIFIC SCHOOL.

Director.—Russell H. Chittenden, Ph.D., LL.D., Sc.D.

Registrar.—Loomis Havemeyer, Ph.D.

THE GRADUATE SCHOOL.

Dean.—Wilbur L. Cross, Ph.D.

THE SCHOOL OF MEDICINE.

Dean.—George Blumer, M.D.

THE SCHOOL OF RELIGION.

Dean.—Rev. Charles R. Brown, D.D., LL.D.

THE SCHOOL OF LAW.

Dean.—Thomas W. Swan, M.A., LL.B.

THE SCHOOL OF THE FINE ARTS.

Dean.—William S. Kendall, M.A., N.A.

THE SCHOOL OF MUSIC.

Dean.—Horatio Parker, M.A., Mus.D.

THE SCHOOL OF FORESTRY.

Dean.—James W. Toumey, M.S., M.A.

UNIVERSITY LIBRARY.

Librarian.—Andrew Keogh, M.A.

Degrees and Hoods.—The University colour (bright blue, similar to Oxford blue, combined with the following universal colours. B.A., B.S., Ph.B., M.S., gold-yellow; C.E., gold-yellow; M.E., gold yellow; E.M., gold-yellow; E.E., gold-yellow; Met.E., gold-yellow; M.A., white; Ph.D., dark blue; B.F.A., brown; Mus.B., pink; M.F., russet; M.D., green; LL.B., purple; LL.M., purple; D.C.L., purple; Jur.D., purple; B.D., scarlet.

Honorary Degrees.—D.D., scarlet; Jur.D., purple; M.A., white; Sc.D., gold-yellow; Litt.D., white; LL.D., purple; Mus.D., pink.

PROFESSORS.

FACULTY OF ARTS.

Professors :

W. C. Abbott, *History.*

T. S. Adams, *Political Economy.*

C. McL. Andrews, *American History.*

R. P. Angier, *Psychology.*

W. B. Bailey, *Practical Philanthropy.*

C. M. Bakewell, *Philosophy.*

H. Bingham, *Latin-American History.*

A. L. Bishop, *Business Administration.*

Professors—Continued :

C. C. Clarke, *French.*

Rev. A. T. Clay, *Assyriology and Babylonian Literature.*

A. S. Cook, *English Language and Literature.*

R. N. Corwin, *German.*

W. L. Cross, *English.*

C. Day, *Economic History.*

G. M. Duncan, *Logic and Metaphysics.*

Professors—Continued :

- F. R. Fairchild, *Political Economy*.
 H. W. Farnam, *Economics*.
 M. Farrand, *History*.
 I. Fisher, *Political Economy*.
 T. D. Goodell, *Greek Language and Literature*.
 G. Gruener, *German*.
 A. M. Harmon, *Greek and Latin*.
 G. L. Hendrickson, *Latin and Greek Literature*.
 E. W. Hopkins, *Sanskrit and Comparative Philology*.
 A. Johnson, *American History*.
 A. G. Keller, *Science of Society*.
 H. R. Lang, *Romance Languages and Literature*.
 C. M. Lewis, *English Literature*.
 F. B. Luquiens, *Spanish*.
 C. W. Mendell, *Latin and Greek*.
 G. H. Nettleton, *English*.
 W. L. Phelps, *English Literature*.
 H. McL. Reynolds, *Greek Language and Literature*.
 A. K. Rogers, *Philosophy*.
 C. Seymour, *History*.
 C. B. Tinker, *English Literature*.
 C. C. Torrey, *Semitic Languages*.
 F. M. Warren, *Modern Languages*.
 J. C. Adams, *English*.
 W. G. Anderson, *Gymnasium*.
 H. S. Canby, *English*.
 H. A. Farr, *German*.
 E. Huntington, *Geography*.
 A. Keogh, *Bibliography*.

Assistant Professors:

- K. I. Asakawa, *History of Japanese Civilization*.
 P. V. C. Baur, *Classical Archeology*.
 C. A. A. Bennett, *Philosophy*.
 J. M. Berdan, *English*.
 P. W. Bidwell, *Economics*.
 C. F. T. Brooke, *English*.
 E. H. Cameron, *Education*.
 A. H. Corley, *Spanish*.
 J. R. Crawford, *English*.
 W. H. Durham, *English*.
 E. S. Furniss, *Political Economy*.
 R. H. Gabriel, *History*.
 R. H. George, "
 C. H. Haring, "
 H. G. Hayes, *Political Economy*.
 S. B. Hemingway, *English*.
 R. T. Hill, *French*.
 H. M. Hubbell, *Greek and Latin*.
 J. W. D. Ingersoll, *Latin*.
 R. S. Kirby, *Drawing and Descriptive Geometry*.
 G. G. MacCurdy, *Prehistoric Archeology*.
 L. Mason, *English*.
 S. K. Mitchell, *History*.
 G. R. Montgomery, *French*.

Assistant Professors—Continued :

- F. E. Pierce, *English*.
 F. W. Pitman, *History*.
 E. B. Reed, *English*.
 E. E. Robinson, *History*.
 E. A. Saliers, *Accounting*.
 C. F. Schreiber, *German*.
 R. B. Westerfield, *Political Economy*.
 F. W. Williams, *Modern Oriental History*.

FACULTY OF SCIENCE.

Professors :

- B. B. Boltwood, *Radio-Chemistry*.
 L. P. Breckenridge, *Mechanical Engineering*.
 E. W. Brown, *Mathematics*.
 H. A. Bumstead, *Physics*.
 W. R. Coe, *Biology*.
 A. W. Evans, *Botany*.
 H. W. Foote, *Physical Chemistry*.
 H. E. Gregory, *Geology*.
 T. B. Johnson, *Organic Chemistry*.
 J. Johnston, *Chemistry*.
 R. S. Lull, *Vertebrate Paleontology*.
 C. H. Mathewson, *Metallurgy and Metallography*.
 G. E. Nichols, *Botany*.
 E. F. Nichols, *Physics*.
 A. Petrunkevitch, *Zoology*.
 J. Pierpont, *Mathematics*.
 L. V. Pirsson, *Physical Geology*.
 C. Schuchert, *Paleontology and Historical Geology*.
 C. F. Scott, *Electrical Engineering*.
 P. F. Smith, *Mathematics*.
 J. C. Tracy, *Civil Engineering*.
 C. J. Tilder, *Engineering Mechanics*.
 H. L. Wells, *Analytical Chemistry*.
 L. L. Woodruff, *Biology*.
 J. Zeleny, *Physics*.
 Colonel R. E. D. Hoyle, *Military Science and Tactics*.

Assistant Professors :

- Major J. T. Bachman, *Military Science and Tactics*.
 B. A. Baitsell, *Biology*.
 S. E. Barney, *Civil Engineering*.
 A. M. Bateman, *Geology*.
 F. E. Beach, *Physics*.
 C. T. Bishop, *Structural Engineering*.
 H. V. Bozell, *Electrical Engineering*.
 P. E. Browning, *Chemistry*.
 J. P. Buwalda, *Geology*.
 C. S. Farnham, *Civil Engineering*.
 W. E. Ford, *Mineralogy*.
 H. Hibbert, *Chemistry*.
 A. J. Hill, *Chemistry*.
 Major S. L. Erwin, *Military Science and Tactics*.
 W. B. Kirkham, *Biology*.
 A. F. Kovarik, *Physics*.

Assistant Professors—Continued :

- D. A. Kreider, *Physics*.
 H. Laurens, *Biology*.
 E. H. Lockwood, *Mechanical Engineering*.
 W. R. Longley, *Mathematics*.
 B. S. McFarland, *Chemistry*.
 E. J. Miles, *Mathematics*.
 L. W. W. Morrow, *Electrical Engineering*.
 Major E. B. Murray, *Military Science and Tactics*.
 L. Page, *Physics*.
 A. Phillips, *Metallurgy*.
 B. Sexton, *Chemistry*.
 H. L. Seward, *Mechanical Engineering*.
 W. K. Shepard, *Strength of Materials*.
 R. H. Suttie, *Civil Engineering*.
 J. I. Tracey, *Mathematics*.
 H. M. Turner, *Electrical Engineering*.
 H. S. Uhler, *Physics*.
 R. G. Van Name, *Chemistry*.
 P. T. Walden
 E. O. Waters, *Machine Design*.
 L. P. Wheeler, *Physics*.
 W. A. Wilson, *Mathematics*.
 G. F. Wöhler, *Electrical Engineering*.
 W. J. Wohlberg, *Mechanical Engineering*.

SCHOOL OF MEDICINE.

Professors :

- G. Blumer, *Theory and Practice of Medicine*.
 R. H. Chittenden, *Physiological Chemistry*.
 J. W. Churchman, *Surgery*.
 H. B. Ferris, *Anatomy*.
 J. M. Flint, *Principles and Practice of Surgery*.
 A. L. Gesell, *Child Hygiene*.
 R. G. Harrison, *Comparative Anatomy*.
 Y. Henderson, *Physiology*.
 L. B. Mendel, *Physiological Chemistry*.
 O. T. Osborne, *Therapeutics*.
 J. M. Slemons, *Obstetrics and Gynecology*.
 F. P. Underhill, *Pathological Chemistry*.
 C. E. A. Winslow, *Public Health*.
 M. C. Winternitz, *Pathology*.
 A. N. Alling, *Ophthalmology*.
 J. C. Greenway, *University Health*.
 R. A. McDonnell, *Dermatology*.
 M. Mailhouse, *Neurology*.
 F. N. Sperry, *Laryngology*.
 H. L. Swain, *Otology*.
 F. W. Verdi, *Surgery*.

Assistant Professors :

- H. G. Barbour, *Pharmacology*.
 H. S. Burr, *Anatomy*.
 H. S. Colwell, *University Health*.
 R. J. Cook, *Surgery*.
 W. E. Hartshorn, *Surgery*.

Assistant Professors—Continued :

- J. A. Honeij, *Medicine*.
 A. H. Morse, *Obstetrics and Gynecology*.
 A. L. Prince, *Physiology*.
 L. F. Rettger, *Bacteriology and Hygiene*.
 O. F. Rogers, *University Health*.
 G. H. Smith, *Bacteriology*.
 W. Tileston, *Medicine*.

SCHOOL OF LAW.

Professors :

- W. T. Barbour, *Equity and Jusisprudence*.
 J. K. Beach, *Mercantile Law and Admiralty Jurisprudence*.
 E. M. Borchard, *Law*.
 A. L. Corbin, *Law*.
 J. W. Edgerton, *Law*.
 E. B. Gager, *General Jurisprudence*.
 E. G. Lorenzen, *Roman Law and Comparative Jurisprudence*.
 E. M. Morgan, *Law*.
 H. W. Rogers
 T. W. Swan, *Testamentary Law*.
 W. H. Taft, *Constitutional Law*.
 E. S. Thurston, *Law*.
 G. D. Watrous
 J. Wurts, *English Common Law*.

Assistant Professors :

- C. E. Clark, *Law*.
 G. E. Woodbine, *Law*.

SCHOOL OF FORESTRY.

Professors :

- R. C. Bryant, *Lumbering*.
 H. H. Chapman, *Forest Management*.
 R. C. Hawley, *Forestry*.
 S. J. Record, *Forest Products*.
 J. W. Tounney, *Silviculture*.
 G. Pinchot, *Forestry*.

Assistant Professor :

- H. N. Whitford, *Tropical Forestry*.

SCHOOL OF RELIGION.

Professors :

- Rev. B. W. Bacon, *New Testament Criticism and Interpretation*.
 Rev. H. P. Beach, *Theory and Practice of Missions*.
 C. F. Kent, *Biblical Literature*.
 Rev. D. C. Macintosh, *Theology*.
 Rev. F. C. Porter, *Biblical Theology*.
 E. H. Sneath, *Philosophy of Religion and Religious Education*.
 Rev. H. H. Tweedy, *Practical Theology*.
 W. Walker, *Ecclesiastical History*.
 Rev. L. A. Weigle, *Christian Nurture*.
 H. B. Wright, *Christian Methods*.

Assistant Professors :

- Rev. J. C. Archer, *Missions*.
 Rev. G. Dahl, *Old Testament Literature*.
 Rev. B. S. Winchester, *Religious Education*.

SCHOOL OF FINE ARTS.

Professors :

- H. B. Jepson, *Applied Music.*
- W. S. Kendall, *Painting and Design.*
- E. V. Meeks, *Architecture.*
- H. Parker, *Theory of Music.*
- D. S. Smith, *Music.*

Professors—Continued :

E. C. Taylor, *Drawing.*

Assistant Professors :

- H. Knight, *Applied Music.*
- A. K. Porter, *History of Art.*
- I. Troostwyk, *Applied Music.*

Post-Graduate Courses.—Courses of Study in the following Departments are offered by the Graduate School.

A.—Language, Literature, and the Fine Arts :

- Classical Philology and Archeology, Indo-Iranian Philology, Comparative Philology, and Linguistics.
- Semitic and Biblical Languages, Literature, and History.
- Romance Languages and Literatures.
- Germanic Languages and Literatures.
- English Language and Literature.
- Fine Arts; History and Criticism.
- Unclassified Courses.

B.—Social and Political Science, History, Philosophy, Psychology, and Education :

- Social and Political Science.
- History.
- Philosophy, Psychology, and Education.

C.—Mathematics and the Physical and Natural Sciences :

- Mathematics, Physics, Chemistry, Botany, Zoology and Comparative Anatomy, Physiology, Physiological Chemistry, Pathology, Pharmacology, and Experimental Medicine.
- Bacteriology and Public Health.
- The Geological Sciences.

D.—Engineering :

- Civil Engineering, Electrical Engineering, Mechanical Engineering, Mining Engineering and Metallurgy, Mechanics, and Clinical Engineering.

The degree of Bachelor of Philosophy, formerly granted by the Sheffield Scientific School for a three-year course, is now given only in Yale College after a four-year course, to students pursuing a somewhat different course of study than that prescribed for the old Bachelor of Arts degree. The study of Latin, but not necessarily of Greek, is still required for the Bachelor of Arts degree.

The Sheffield Scientific School course has been increased to four years in length, and now leads to the degree of Bachelor of Science. The " Undergraduate Schools " therefore give three degrees, B.A., or Ph.B. in Yale College; B.S. in the Scientific School. All require four years course.

Museums.—

Peabody Museum. *Curators :* W. R. Coe, Ph.D., Zoology; E. S. Dana, Ph.D., Mineralogy; G. F. Eaton, Ph.D., Osteology; G. G. MacCury, Ph.D., Anthropology; C. Schuchert, LL.D., Geology; R. S. Lull, Ph.D., Vertebrate Paleontology.

South American Expeditions and Collections. *Director :* H. Bingham, Ph.D., Litt.D.

Many valuable Art Collections.

Libraries.—The total number of books in the various libraries of the University exceeds 1,100,000.

The University Library contains 950,000 volumes and many valuable manuscripts. There are 37 special libraries.

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—E. H. Jenkins.

NEWNHAM COLLEGE. See CAMBRIDGE.

NEW ORLEANS (Louisiana).

TULANE UNIVERSITY OF LOUISIANA. No particulars received.

SUGAR STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—W. R. Dodson.

NEWPORT (Shropshire).

HARPER ADAMS AGRICULTURAL COLLEGE, Newport, Salop. (1901.)

The work of the College comprises:

- (a) The training of students, men and women, for agricultural careers, and the holding of Nature Study Courses for Teachers.
- (b) Farm Experimental Work.
- (c) Advisory work for the benefit of farmers and others in the counties of Salop, Stafford and Warwick.

The College is the centre for Higher Agricultural Education for the Board of Agriculture, West Midland Province, comprising Shropshire, Staffordshire, and Warwickshire.

As the Experimental Centre for these counties a special feature of the College is the demonstrations held on the College Farm for farmers, who attend in large numbers.

The Poultry Section includes the largest Laying Trials in this country, and about 1,200 birds are under annual trial. The Poultry Conference extending over several days are attended by Poultry Keepers from all parts of the country.

Terms : Three per year.

Students : 100 to 120.

Budget : Grants are made by the Board of Agriculture and the County Councils of Shropshire, Staffordshire, and Warwickshire.

OFFICIALS.

Chairman of Governing Body.

Board of Governors appointed by—

- (a) County Councils of Salop, Stafford, and Warwick.
- (b) University of Birmingham.
- (c) Royal Agricultural Society.
- (d) Co-optated, representing Trustees.

Degrees.—Diploma in Agriculture comprising a three-year course. Certificate in Agriculture comprising a two-year course.

STAFF.

Principal.—P. Hedworth Foulkes, B.Sc., F.E.S.

Lecturers :

J. C. Brown, *Agriculture.*

R. C. Andrew, "

J. C. Urquhart, *Agricultural Chemistry.*

H. Thompson, *Chemistry.*

A. Roebuck, *Botany.*

W. T. Wilson, *Veterinary.*

8 Instructors.

Post-Graduate Courses.—Courses are arranged for those who have completed the Diploma in special branches—Agricultural Chemistry, Botany, and practical work in connection with special investigations on the College Farm.

NEWTON ABBOT (Devon).

SEALE HAYNE AGRICULTURAL COLLEGE, Newton Abbot, Devon. (1914.)

Terms : Four per year.

Students : 100.

OFFICIAL.

Principal.—D. R. Edwardes-Ker, O.B.E., M.A., B.Sc.

Degrees conferred.—College Diploma and Certificate in Agriculture or Horticulture.

LECTURERS.

P. A. McWilliam, *Head of Agric. Department.*

E. W. Fenton, *Head of Botanical Dept.*

T. J. Shaw, *Agriculture.*

C. T. Mackintosh, *Fruit and Vegetable Growing.*

C. Crosse, *Poultry.*

N. F. Richardson, *Agric. Bookings.*

NEW YORK.

COLUMBIA UNIVERSITY, New York City. (1754.)

Sessions : Three per year.*Students* : 26,203; including 9,539 in Summer Session, and 8,460 in Extension Teaching.

OFFICIALS.

President.—N. Murray Butler, Ph.D., Jur.D., LL.D., Litt.D.*Secretary*.—F. D. Fackenthal, A.B.*Acting Registrar*.—Edward J. Grant.*Bursar*.—G. S. Danielson.*Principal of Horace Manor School*.—H. C. Pearson.*Principal of Horace Manor School for Boys*.—V. Prettyman.**Degrees conferred**.—A.B., A.M., LL.B., LL.M., Litt.B., B.Arch., M.B., Ch.E., C.E., E.E., E.M., Ph.D., Phar.D., D.D.S., Mech.E., Met.E.

PROFESSORS.

COLUMBIA, BARNARD, AND
TEACHERS COLLEGES.**Professors :**R. J. H. Gottheil, *Rabbinical Literature and the Semitic Languages.*E. D. Perry, *Greek.*W. A. Dunning, *History and Political Philosophy.*A. V. Williams-Jackson, *Indo-Iranian Languages.*B. Matthews, *Dramatic Literature.*H. A. Todd, *Romance Philology.*F. H. Giddings, *Sociology and the History of Civilization.*J. Chidester Egbert, *Latin.*F. T. Baker, *English Language and Literature.*J. E. Russell, *Education.*F. M. McMurry, *Elementary Education.*P. Monroe, *History of Education, Director of School of Education.*W. P. Trent, *English Literature.*N. G. McCrea, *Latin Language and Literature.*G. Lodge, *Latin and Greek.*C. H. Young, *Greek, Archeology.*T. D. Wood, *Physical Education.*W. T. Brewster, *English.*G. C. D. Odell, *English.*C. Knapp, *Classical Philology.*J. D. Prince, *Slavonic Languages.*M. H. Saville, *American Archeology.*G. L. Meylan, *Physical Education.*J. B. Fletcher, *Comparative Literature.*A. W. Dow, *Fine Arts.*W. R. Shepherd, *History.*

J. T. Shotwell

V. G. Simkhovitch, *Economic History.*A. H. Thorndike, *English.*H. Johnson, *History.*M. A. Nutting (Miss), *Nursing.*W. W. Lawrence, *English.*G. D. Strayer, *Educational Administration.***Professors—Continued :**J. Erskine, *English.*R. Weeks, *Romance Philology.*V. C. Gildersleeve (Miss), *English.*G. P. Krapp, *English.*F. G. Moore, *Latin.*F. G. Bonser, *Education.*C. T. McFarlane, *Geography.*C. Sears Baldwin, *Rhetoric and English Composition.*W. H. Kilpatrick, *Education.*W. H. Hall, *Choral and Church Music.*H. L. McBain, *Municipal Science and Administration.*W. A. Boring, *Design.*F. De Onis, *Spanish Literature.*C. D. Hazen, *History.*R. C. McCrea, *Economics.*D. Snedden, *Education.*H. Parker Willis, *Banking.*W. C. Bagley, *Education.*

O. W. Caldwell

A. D. Dean

W. H. Carpenter, *Germanic Philology.*R. H. Montgomery, *Accounting.*C. J. H. Hayes, *History.*D. D. Johnson, *Physiography.*Lt.-Col. A. R. Edwards, *Military Science and Tactics.*A. Le Braz, *French Literature.*W. F. Ogburn, *Sociology.*J. R. Smith, *Economic Geography.***Associate Professors :**C. H. Farnsworth, *School Music.*E. W. Bagster-Collins, *German.*L. A. Loiseaux, *French.*A. F. J. Remy, *Germanic Philology.*Grace A. Hubbard (Miss), *English.*D. G. Mason, *Music.*W. A. Braun, *Germanic Languages and Literatures.*J. L. Gerig, *Celtic.*R. L. Schuyler, *History.*

Associate Professors—Continued :

- La Rue Van Hook, *Classical Philology*.
 Anna M. Cooley (Miss), *Household Arts*.
 P. S. Hill (Miss), *Kindergarten Education*.
 M. D. Swartz Rose (Mrs.), *Household Arts*.
 M. B. Van Arsdale (Miss), *Household Arts*.
 E. E. Agger, *Economics*.
 R. E. Chaddock, *Statistics*.
 D. S. Muzzey, *History*.
 T. H. Briggs, *Education*.
 H. A. E. Chandler, *Economics*.
 A. G. H. Spiers, *French*.
 R. M. Haig, *Business Organization*.
 N. L. Englehardt, *Education*.
 F. W. Johnson "
 J. F. Williams, *Physical Education*.
 H. R. Sterves, *English*.
 E. H. Wright "
 F. A. Patterson "
 H. M. Ayres "

Assistant Professors :

- H. T. Vulte, *Household Arts*.
 A. De V. Tassin, *English*.
 J. Fales (Miss), *Household Arts*.
 A. J. Latham (Miss), *Oral English*.
 S. O. Miller, *Drawing*.
 A. A. Tenney, *Sociology*.
 A. Bement, *Fine Arts*.
 G. A. Cornell (Miss), *Fine Arts*.
 W. Goodsell, *Education*.
 G. M. Hirst (Miss), *Classical Philology*.
 T. H. Harrington, *Drawing*.
 F. W. J. Heuser, *Germanic Languages and Literatures*.
 E. M. Sait, *Politics*.
 R. Stevens, *Secondary Education*.
 E. H. Sturtevant, *Classical Philology*.
 A. Abbott, *English*.
 B. R. Andrews, *Household Arts*.
 A. W. Goodrich (Miss), *Nursing and Health*.
 H. F. Muller, *French*.
 D. Bigongiari, *Italian*.
 E. C. Cook (Miss), *English*.
 W. Haller, *English*.
 C. M. Howard (Miss), *English*.
 J. H. H. Lyon, *English*.
 C. M. Winchell (Miss), *Household Arts*.
 R. B. Kester, *Accounting*.
 H. H. L. Schulze, *Germanic Languages and Literatures*.
 E. S. Elliott, *Physical Education*.
 B. B. Kendrick, *History*.
 E. H. Gunther (Miss), *Household Arts*.
 A. A. Meras, *French*.
 P. de Bacourt, *French*.

Assistant Professors—Continued :

- E. J. Hutchinson (Miss), *Economics*.
 A. W. Ballard (Miss), *French*.
 J. M. Gambrell, *History*.
 D. R. Fox, *History*.
 H. Lyon, *Finance*.
 M. A. Huttman (Miss), *History*.
 T. W. Van Metre, *Transportation*.
 D. S. Fansler, *English*.
 T. L. Kelley, *Education*.
 K. C. Reiley (Miss), *Greek and Latin*.
 W. Spohr (Miss), *Household Arts*.
 I. M. Stewart (Miss), *Nursing and Health*.
 M. R. Traube, *Education*.
 E. K. Fretwell, *Education*.
 L. S. Hollingworth (Mrs.), *Education*.
 W. A. McCall, *Education*.
 E. H. Resiner "
 M. Carney (Miss), *Rural Education*.
 B. Larson (Miss), *Physical Education*.
 A. R. Weyman (Miss) "
 Major F. R. McLean, *Military Science and Tactics*.
 Capt. A. G. Merry, *Military Science and Tactics*.
 C. T. Martin, *Fine Arts*.
 L. Tallman (Miss), *Religious Education*.

FACULTIES OF POLITICAL SCIENCE, PHILOSOPHY, AND PURE SCIENCE.**Professors :**

- E. R. A. Seligman, *Political Economy*.
 H. F. Osborn, *Zoology*.
 E. B. Wilson "
 T. S. Fiske, *Mathematics*.
 H. Jacoby, *Astronomy*.
 F. N. Cole, *Mathematics*.
 B. Dean, *Vertebrate Zoology*.
 F. Boas, *Anthropology*.
 J. F. Woodhull, *Physical Science*.
 H. G. Lord, *Philosophy*.
 M. T. Bogert, *Organic Chemistry*.
 J. L. R. Morgan, *Physical Chemistry*.
 H. E. Crampton, *Zoology*.
 E. L. Thorndike, *Educational Psychology*.
 D. E. Smith, *Mathematics*.
 W. J. Gies, *Biological Chemistry*.
 H. R. Seager, *Political Economy*.
 H. L. Moore "
 F. J. E. Woodbridge, *Philosophy*.
 F. Adler, *Social and Political Ethics*.
 H. M. Richards, *Botany*.
 C. J. Keyser, *Mathematics*.
 M. A. Bigelow, *Biology* (Director of the School of Practical Arts).
 T. H. Morgan, *Experimental Zoology*.
 C. L. Poor, *Celestial Mechanics*.
 J. Dewey, *Philosophy*.
 A. P. Wills, *Mathematical Physics*.

Professors—Continued :

- R. S. Woodworth, *Psychology*.
 H. B. Mitchell, *Mathematics*.
 E. Kasner
 G. B. Pegram, *Physics*.
 C. P. Berkey, *Geology*.
 W. B. Fite, *Mathematics*.
 H. E. Hawkes, *Mathematics*.
 G. V. Wendell, *Physics*.
 R. A. Harper, *Botany*.
 A. Smith, *Chemistry*.
 J. B. Clark, *Political Economy*.
 J. F. Kemp, *Geology*.
 B. Dudes, *Physics*.

Associate Professors :

- M. E. Maltby (Miss), *Physics*.
 W. P. Montague, *Philosophy*.
 J. H. McGregor, *Zoology*.
 C. C. Curtis, *Botany*.
 M. Reimer (Miss), *Chemistry*.
 A. L. Jones, *Philosophy*.
 C. B. Upton, *Mathematics*.
 H. T. Beans, *Chemistry*.
 T. B. Freas
 W. T. Bush, *Philosophy*.
 W. B. Pitkin
 I. H. Ogilvie (Miss), *Geology*.
 J. M. Nelson, *Organic Chemistry*.
 H. L. Hollingworth, *Psychology*.
 J. P. C. Southall, *Physics*.
 J. Kendall, *Chemistry*.
 J. Hostmann

Assistant Professors :

- T. E. Hazen, *Botany*.
 G. W. Mullins, *Mathematics*.
 H. A. Ruger, *Psychology*.
 L. P. Siceloff, *Mathematics*.
 J. E. Zanetti, *Chemistry*.
 H. W. Webb, *Physics*.
 H. A. Fales, *Chemistry*.
 J. Broadhurst (Miss), *Biology*.
 C. D. Carpenter, *Chemistry*.
 M. T. Whitley (Miss), *Educational Psychology*.
 W. K. Gregory, *Vertebrate Palontology*.
 H. W. Farwell, *Physics*.
 L. H. Gregory (Miss), *Zoology*.
 E. Keller (Miss), *Chemistry*.
 J. J. Coss, *Philosophy*.
 A. T. Poffenberger, jr., *Psychology*.
 W. L. Severinghaus, *Physics*.

**SCHOOL OF MEDICINE, DENTISTRY,
AND PHARMACY.**

Professors :

- G. S. Huntington, *Anatomy*.
 F. S. Lee, *Physiology*.
 L. E. Holt, *Diseases of Children*.
 G. N. Calkins, *Protozoology*.
 J. A. Miller, *Clinical Medicine*.
 A. H. Knapp, *Ophthalmology*.
 F. C. Wood, *Cancer Research*.

Professors—Continued :

- W. E. Studdiford, *Obstetrics and Gynecology*.
 H. H. Rusby, *Materia Medica*.
 G. C. Diekman, *Pharmacy*.
 G. R. Lockwood
 W. K. Draper
 Van H. Norrie
 L. W. Hotchkiss, *Clinical Surgery*.
 J. B. Walker
 C. N. Dowd
 E. M. Evans, *Clinical Medicine*.
 C. H. Peck, *Clinical Surgery*.
 H. V. Army, *Chemistry*.
 W. T. Longcope, *Practice of Medicine*.
 J. A. Fordyce, *Dermatology and Syphilology*.
 H. Zinsser, *Bacteriology*.
 F. Tilney, *Neurology and Neuro-Anatomy*.
 C. G. Coakley, *Laryngology and Otology*.
 W. A. Holden, *Clinical Ophthalmology*.
 H. St. C. Paec, *Commercial Pharmacy*.
 J. B. Squier, *Urology*.
 H. S. Dunning, *Oral Surgery*.
 H. W. Gillett, *Theory and Practice of Dentistry*.
 A. H. Merritt, *Oral Pathology*.
 F. A. Peeso, *Dentistry*.
 F. T. Van Woert, *Clinical Dentistry*.
 L. M. Waugh, *Histology and Embryology*.
 J. L. Young, *Orthodontia*.
 R. A. Hibbs, *Orthopedic Surgery*.
 J. W. Jobling, *Pathology*.
 L. Casamajor, *Neurology*.
 J. P. Ruyl, *Prosthetic Dentistry*.
 W. B. Dunning, *Operative Dentistry*.

Clinical Professors :

- J. S. Thacher, *Clinical Medicine*.
 P. F. Chambers, *Clinical Gynecology*.
 F. Huber, *Clinical Medicine*.
 R. Lewis, *Clinical Laryngology and Otology*.
 J. Kaufman, *Clinical Medicine*.
 R. C. Denig, *Clinical Ophthalmology*.
 N. E. Brill, *Clinical Medicine*.
 F. Kammerer, *Clinical Surgery*.
 E. Libman, *Clinical Medicine*.
 F. R. Oastler, *Clinical Gynecology*.
 A. W. Hollis, *Clinical Medicine*.
 H. H. M. Lyle, *Clinical Surgery*.
 H. C. Taylor, *Clinical Gynecology*.
 E. Eliot, jr., *Clinical Surgery*.
 A. V. Moscheowitz, *Clinical Surgery*.
 S. Wachsmann, *Clinical Medicine*.

Associate Professors :

- R. Burton-Opitz, *Physiology*.
 W. R. Williams, *Clinical Medicine*.
 F. H. Pike, *Physiology*.
 W. H. Woglom, *Cancer Research*.
 O. S. Strong, *Neurology*.
 W. D. Tracy, *Operative Dentistry*.

Associate Professors—Continued :

- C. W. Ballard, *Pharmacognosy*.
 C. P. Wimmer, *Pharmacy*.
 W. Ward, *Obstetrics and Gynecology*.
 W. E. Caldwell, *Obstetrics and Gynecology*.
 A. M. Pappenheimer, *Pathology*.
 W. Darrach, *Surgery*.
 A. P. S. Lambert, *Surgery*.
 W. C. Clarko "
 E. H. Pool "
 W. Martin "
 F. B. St. John "
 A. O. Whipple "

Assistant Professors :

- B. B. Gallaudet, *Anatomy*.
 J. H. Larkin, *Pathology*.
 K. M. Vogel, *Clinical Pathology*.
 D. Bovaird, jr., *Clinical Medicine*.
 C. N. B. Camac, *Clinical Medicine*.
 B. P. Farrel, *Orthopedic Surgery*.
 H. S. Patterson, *Clinical Medicine*.
 T. S. Hart "
 L. F. Frissell "
 C. C. Lieb, *Pharmacology*.
 G. A. Tuttle, *Clinical Medicine*.
 F. S. Matthews, *Clinical Surgery*.
 W. A. Downes "
 E. L. Scott, *Physiology*.
 E. L. Hunt, *Clinical Neurology*.
 W. A. Bastedo, *Clinical Medicine*.
 H. B. Williams, *Physiology*.
 R. Frothingham, *Laryngology and Otolaryngology*.
 T. L. Saunders, *Laryngology*.
 S. P. Goodhart, *Neurology*.
 O. S. Strong "
 J. F. McCarthy, *Urology*.
 V. Dansehakoff (Miss), *Anatomy*.
 A. H. Stevenson, *Preventive Dentistry*.
 E. S. Ulsaver, *Prosthetic Dentistry*.
 O. J. Chase, jr., *Operative Dentistry*.
 S. W. Van Saun, *Operative Dentistry*.
 G. M. MacKee, *Dermatology and Syphilology*.
 C. H. Jaeger, *Orthopedic Surgery*.
 R. G. Snyder, *Clinical Medicine*.
 G. L. La Porte "
 B. S. Oppenheimer, *Clinical Medicine*.
 G. R. Elliott, *Clinical Orthopedic Surgery*.
 H. S. Carter, *Medicine*.
 W. W. Herriek, *Medicine*.
 H. C. Thacher "

FACULTY OF APPLIED SCIENCE.**Professors :**

- A. J. Moses, *Mineralogy*.
 R. Peele, *Mining*.
 M. I. Pupin, *Electro-Mechanics*.
 J. B. Clark, *Political Economy*.
 E. B. Lovell, *Civil Engineering*.
 H. C. Sherman, *Food Chemistry*.

Professors—Continued :

- C. E. Lueke, *Mechanical Engineering*.
 W. Rautenstrauch, *Mechanical Engineering*.
 A. L. Walker, *Metallurgy*.
 W. Campbell "
 A. F. Taggart, *Ore Dressing*.
 W. I. Slichter, *Electrical Engineering*.
 O. S. Morgan, *Agriculture*.
 D. D. Jaekson, *Chemical Engineering*.
 R. M. Raymond, *Mining*.
 L. H. Baekeland, *Chemical Engineering*.
 R. H. MacKee, *Chemical Engineering*.

Associate Professors :

- R. E. Mayer, *Engineering Drafting*.
 C. H. Burnside, *Mechanics*.
 J. H. Morcroft, *Electrical Engineering*.
 J. K. Fineh, *Civil Engineering*.
 A. W. Hixson, *Chemical Engineering*.

Assistant Professors :

- L. Melvaime Luquer, *Mineralogy*.
 S. A. Tucker, *Electro-Chemistry*.
 M. Arendt, *Electrical Engineering*.
 E. J. Hall, *Assaying*.
 H. L. Parr, *Mechanical Engineering*.
 E. F. Kern, *Metallurgy*.
 C. W. Thomas, *Mechanical Engineering*.
 C. C. Steffel "
 E. D. Thurston, jr., *Mechanical Engineering*.
 L. De G. Moss, *Mechanical Engineering*.
 F. W. Hehre, *Electrical Engineering*.
 C. W. Larson, *Agriculture*.
 J. J. Morgan, *Chemical Engineering*.
 A. W. Thomas, *Food Chemistry*.

SCHOOL OF LAW.**Professors :**

- M. Smith, *Roman Law and Comparative Jurisprudence*.
 J. B. Moore, *International Law and Diplomacy*.
 G. F. Canfield, *Law*.
 C. T. Terry, *Law*.
 N. Abbott "
 W. D. Guthrie, *Constitutional Law*.
 H. F. Stone, *Law*.
 R. W. Gifford "
 U. Moore "
 T. I. Parkinson, *Legislation*.
 S. McCune Lindsay, *Social Legislation*.
 Y. B. Smith, *Law*.
 W. W. Cook, *Law*.

Associate Professors :

- T. R. Powell, *Constitutional Law*.
 G. Glenn, *Law*.

SCHOOL OF JOURNALISM.**Professors :**

- J. W. Cunliffe, *English*.

Associate Professors :

R. C. E. Brown, *Journalism*.
C. P. Cooper „

SCHOOL OF ARCHITECTURE.

Professor :

A. D. F. Hamlin, *History of Architecture*.

Post-Graduate Courses.—Leading to A.M., M.S., Ph.D., and LL.M.

Museums.—

Brander Matthews Dramatic Museum, 5,000 volumes on drama, models of theatres in different periods.

Egleston Mineralogical Museum, 30,000 specimens.

Museum of General Inorganic and Organic Chemistry, and of the Chemical Arts.

Museum of Human and Comparative Anatomy.

NEW YORK UNIVERSITY, Washington Square, New York. (Chartered 1831.)

Terms : Three per year.

Students : 9,129.

OFFICIALS.

Chancellor.—Elmer E. Brown, Ph.D., LL.D.

Dean.—Marshall S. Brown, A.M.

Registrar.—Milton E. Loomis, A.M.

Bursar.—Frank A. Fall, A.M., Litt.D.

PROFESSORS.

FACULTY OF ARTS.

Professors :

A. L. Bouton, *English*.
E. G. Sihler, *Latin Language and Literature*.
M. S. Brown, *History and Political Science*.
L. A. McLouth, *German Language and Literature*.
W. E. Waters, *Greek Language and Literature*.
C. G. Shaw, *Ethics*.
E. B. Babcock, *Romance Languages and Literatures*.
A. H. Nason, *English*.

Associate Professor :

F. H. Wilkens, *German*.

Assistant Professors :

T. F. Jones, *European History*.
B. S. Allen, *English*.
H. C. Heaton, *Romance Languages*.
H. A. Watt, *English*.
C. C. D. Briggs, *Public Speaking*.

FACULTY OF PURE SCIENCE.

Professors :

T. W. Edmondson, *Mathematics*.
C. L. Bristol, *Biology*.
A. E. Hill, *Analytical Chemistry*.
J. E. Woodman, *Geology*.
J. C. Hubbard, *Physics*.

Associate Professor :

J. P. Simmons, *Chemistry*.

Assistant Professors :

C. A. Harriman, *Architecture*.
66 Associates, 243 Instructors, 36 Lecturers, 66 Assistants, and 94 Clinical Assistants.

Assistant Professors :

G. I. Finlay, *Geology*.
P. L. Thorne, *Mathematics*.
J. R. Hobbie, *Physics*.
H. J. Masson, *Chemistry*.
F. Barry, *Chemistry*.
20 Instructors and 9 Assistants.

FACULTY OF APPLIED SCIENCE.

Professors :

C. H. Snow, *Civil Engineering*.
C. P. Bliss, *Mechanical Engineering*.
C. E. Houghton, *Mechanics*.
A. Haring, *Bridge and Railway Engineering*.
J. L. Arnold, *Electrical Engineering*.

Associate Professor :

W. R. Bryans, *Engineering Drawing*.

Assistant Professors :

H. Dunham, *Engineering Drawing*.
D. S. Trowbridge, *Engineering*.
H. G. Tyler, *Mechanical Engineering*.
2 Lecturers, 9 Instructors, 10 Assistants

FACULTY OF LAW.

Professors :

F. H. Sommer, *Law*.
L. J. Tompkins „
I. F. Russell „
F. A. Erwin „
T. D. Kenneson „
C. F. Bacon, *Law of Commerce and Finance*.

Professors—Continued :

F. W. Aymar, *Law*.
 W. F. Walsh, "
 E. D. Webb, "
 C. F. Burnett, "

Assistant Professors :

G. C. Sprague, *Law*.
 A. T. Vanderbilt, *Law*.
 5 Lecturers, 2 Instructors.

SCHOOL OF MEDICINE.

Professors :

S. A. Brown, *Therapeutics*.
 E. D. Fisher, *Mental and Nervous Diseases*.
 A. Flint, *Obstetrics*.
 W. P. Northrup, *Pediatrics*.
 J. A. Mandel, *Chemistry*.
 E. B. Dench, *Otology*.
 W. H. Park, *Bacteriology and Hygiene*.
 R. H. Sayre, *Orthopedic Surgery*.
 L. A. La Grade, *Military Surgery*.
 J. E. Weeks, *Ophthalmology*.
 H. Brooks, *Clinical Medicine*.
 G. B. Wallace, *Pharmacology*.
 H. C. Kaekson, *Physiology*.
 H. D. Senior, *Anatomy*.
 A. T. Osgood, *Genito-Urinary Surgery*.
 W. B. Trimble, *Dermatology and Syphilology*.
 G. D. Stewart, *Surgery*.
 H. M. Biggs, *Medicine*.
 L. M. Hurd, *Laryngology*.
 W. C. Lusk, *Clinical Surgery*.
 L. T. Le Wald, *Roentgenology*.
 D. Symmers, *Pathology*.
 M. S. Gregory, *Mental Diseases*.

Adjunct Professors :

W. E. Studdiford, *Gynecology*.
 R. G. Freeman, *Pediatrics*.

Associate Professor :

R. J. Carlisle, *Medicine*.

Assistant Professors :

F. W. Thyng, *Anatomy*.
 A. O. Gettler, *Chemistry*.
 A. R. Mandel, *Clinical Pathology*.
 C. Krumwiede, jr., *Bacteriology*.
 R. J. Wilson, *Bacteriology*.
 E. Foskett, *Gynecology*.
 C. E. Perkins, *Otology*.
 E. J. Pellini, *Pharmacology*.
 A. Fraser, *Pathology*.
 W. C. Noble, jr., *Hygiene*.
 W. Coleman, *Medicine*.

Clinical Professors :

C. E. Quimby, *Medicine*.
 H. A. Haubold, *Surgery*.
 J. Douglas, "
 L. K. Neff, "
 W. H. Luckett

Clinical Professors—Continued :

M. Manges, *Medicine*.
 A. Meyer, "
 C. A. Elsberg, *Surgery*.
 I. Abrahamson, *Neurology*.
 M. Fishberg, *Tuberculosis*.
 P. W. Nathan, *Orthopedic Surgery*.
 C. Goodman, *Surgery*.
 M. Nicoll, jr., *Infectious Diseases*.
 A. F. Hess, *Pediatrics*.
 W. J. Pulley, *Medicine*.
 J. McCoy, *Laryngology*.
 H. W. Wandless, *Ophthalmology*.
 J. B. Bissell, *Surgery*.
 I. Levin, *Cancer Research*.
 T. J. Abbott, *Medicine*.
 T. A. Smith, *Surgery*.
 A. M. Wright, "
 W. C. Cramp, "
 W. E. Caldwell, *Obstetrics*.
 W. M. Ford, "
 J. F. Nagle, *Medicine*.
 J. C. McCoy, *Surgery*.
 J. T. J. Bird, *Medicine*.
 E. P. Shelby, "
 R. E. Brown, *Obstetrics*.
 1 Associate, 12 Lecturers, 37 Instructors, 11 Assistants.

COMMERCE, ACCOUNTS, AND FINANCE.

Professors :

J. F. Johnson, *Political Economy and Finance*.
 J. T. Madden, *Accounting*.
 J. R. Wildman, "
 J. W. Jenks, *Government and Public Administration*.
 G. B. Hotchkiss, *Business English*.
 W. G. Fisher, *Economics*.
 J. R. Turner, "
 J. E. Lough, *Experimental Psychology*.
 E. J. Clapp, *Economics*.
 G. W. Gerstenberg, *Finance*.
 W. W. Douglas, *Accounting*.
 L. Galloway, *Commerce and Industry*.
 J. M. Lee, *Journalism*.
 A. F. Wilson, "
 A. N. Taylor, *Economics*.

Associate Professor :

R. M. Binder, *Sociology*.
 J. D. Magee, *Economics*.

Assistant Professors :

E. B. Gowin, *Political Economy*.
 M. E. Loomis, *Government*.
 M. B. Foster, *Economics*.
 E. J. Kilduff, *Business English*.
 W. A. Barber, *Methods in Commercial Education*.
 A. H. Rosenkamppf, *Accounting*.
 R. P. Ettinger, *Finance*.
 40 Lecturers, 23 Instructors, 1 Assistant.

NEW YORK STATE VETERINARY COLLEGE.

Professors :

- W. H. Hoskins, *Clinical Medicine and Jurisprudence.*
- R. W. Ellis, *Veterinary Medicine.*
- W. R. Blair, *Comparative and Special Pathology.*
- W. O. L. Lellman, *Pathology.*
- T. B. Rogers, *Materia Medica and Therapeutics.*

Professors—Continued :

- A. Eichhorn, *Infectious and Contagious Diseases.*
- A. C. Hassloch, *Materia Medica, Therapeutics, Botany, and Pharmacology.*

Assistant Professors :

- H. Henning, *Veterinary Anatomy and Surgery.*
- A. McNeil, *Bacteriology.*
- J. F. De Vine, *Comparative Medicine.*
- C. C. Schloemer, *Veterinary Medicine.*
- 10 Lecturers, 1 Instructor.

Post-Graduate Courses in Ancient Languages, Modern Languages, Philosophy and Religion, Education, Social Sciences, Mathematical and Physical Sciences, and Biological Sciences. There is also a School of Pedagogy.

Library.—University Library of 100,000 volumes. *Librarian :* B. Corwin, M.D. Various special Libraries.

UNIVERSITY OF THE STATE OF NEW YORK. See ALBANY.

GENERAL THEOLOGICAL SEMINARY OF THE PROTESTANT EPISCOPAL CHURCH IN THE UNITED STATES, Chelsea Square, New York City. (1817.)

Affiliated with Columbia and New York Universities.

Terms : Two semesters in most of, but not in all, of the Courses.

Students : Average more than 100.

OFFICIALS.

Dean.—Very Rev. H. E. W. Fosbroke, D.D.

Sub-Dean.—Rev. H. McK. Denslow, D.D.

Bursar and Registrar.—C. B. Zabriskie, B.A.

Degrees conferred.

Degrees.

Hoods.

B.D. - - Hood of Oxford shape, of black ribbed silk lined with purple silk, and corded with scarlet silk.

D.D. - - Hood of Oxford shape, of scarlet cloth, lined with purple silk.

PROFESSORS.

Rev. H. McK. Denslow, *Pastoral Theology.*

Rev. C. N. Shepard, *Hebrew.*

Rev. C. C. Edmunds, *Literature of New Testament.*

Rev. L. W. Batten, *Literature of Old Testament.*

Rev. A. P. Hunt, *Christian Ethics.*

Rev. A. W. Jenks, *Ecclesiastical History.*

Rev. D. S. Miller, *Christian Apologetics.*

Rev. F. B. Blodgett, *Apocalyptic Literature.*

Rev. F. J. Hall, *Dogmatic Theology.*

Rev. C. H. Boynton, *Homiletics.*

Rev. B. S. Easton, *New Testament.*

Rev. R. B. Pomeroy, *Polity and Canon Law.*

3 Instructors and 1 Assistant.

Post-Graduate Courses.—New Courses, primarily for Graduates in Syraic, Religion of Israel, Historical Patristics, Philology of Christian Religion, St. Paul's Ethical Teaching and Eastern Liturgies.

In addition to the above, plans for graduate work are made on consultation, between the students individually and the professors in whose departments they wish to study.

Library.—The Library of the General Theological Seminary. *Librarian :* G. Dobbin Brown, Ph.D.

UNION THEOLOGICAL SEMINARY, 3041 Broadway, New York. (1836.)

"Equal privileges of admission and instruction, with all the advantages of the institution, are allowed to students of every denomination of Christians." For admission graduation from a college of accepted standing is demanded.

Terms.—Two semesters. *Students :* 288.

Budget : \$284,000.

OFFICIALS.

President.—Rev. A. C. McGiffert, Ph.D., D.D., LL.D.

Dean of Students.—Rev. C. R. Gillett, D.D., L.H.D.

Degrees conferred.—B.Th., M.Th., D.Th.

PROFESSORS.

Professors :

Rev. A. C. McGiffert, *Church History*.
 Rev. W. A. Brown, *Systematic Theology*.
 Rev. C. P. Fagnani, *Old Testament Literature and Exegesis*.
 Rev. J. E. Frame, *Sacred Literature*.
 Rev. J. A. Bewer, *Old Testament History and Theology*.
 Rev. H. Black, *Practical Theology*.
 G. A. Coe, *Practical Theology*.
 Rev. G. A. Johnston Ross, *Homiletics*.
 Rev. H. P. Smith, *Hebrew and the Cognate Languages* (Librarian).
 Rev. R. E. Hume, *History of Religions*.
 Rev. G. S. White, *Applied Christianity*.
 Rev. H. E. Fosdick, *Practical Theology*.

Professors—Continued :

Rev. F. J. Foakes Jackson, *Christian Institutions*.
 Rev. D. J. Fleming, *Missions*.
 Rev. H. F. Ward, *Christian Ethics*.
 Rev. E. W. Lyman, *Philosophy of Religion*.
 Rev. W. W. Rockwell, *Church History*.
 Rev. E. F. Scott, *Biblical Theology*.

Assistant Professors :

H. S. Coffin, *Pastoral Theology*.
 H. H. Tryon, *New Testament and Church History*.
 H. Hartshorne, *Religious Education*.
 A. L. Swift, jr., *Field Work*.
 4 Instructors, 5 Lecturers, 5 Assistants.

THE JEWISH THEOLOGICAL SEMINARY OF AMERICA, 531-535 West 123rd Street, New York City. (1886.)

Terms : Two per year. *Budget* : Approximately \$60,000.00 per annum.

OFFICIALS.

Chairman of Board of Directors.—Louis Marshall.

Treasurer.—Daniel Guggenheim.

Honorary Secretary.—Sol. M. Stroock.

Acting-President.—Cyrus Adler, Ph.D.

Registrar.—Israel Davidson, Ph.D.

Secretary.—Joseph B. Abrahams.

Degrees conferred.—Graduate Course, Rabbi; Post-Graduate Course: D.H.L., D.D.; Honorary Degrees: D.H.L., D.D.

Hoods.—Light blue and white.

PROFESSORS.

I. Friedlaender, *Biblical Literature and Exegesis*.
 L. Ginzberg, *Talmud*.
 A. Marx, *History*.

M. M. Kaplan, *Homiletics*.
 I. Davidson, *Medieval Hebrew Literature*.
 M. Hyamson, *Codes*.

3 Instructors, 1 Lecturer.

Library.—The Seminary houses the largest Jewish Collection of books and manuscripts in America, comprising 57,098 books and 1,820 manuscripts. *Librarian* : Alexander Marx.

AMERICAN MUSEUM OF NATURAL HISTORY, 77th Street and Central Park West, New York City.

5,100 Members. 58 Fellows.

Director.—Frederic A. Lucas, Sc.D.

Department of Geology and Invertebrate Paleontology.

Curator.—Edmund Otis Hovey, Ph.D.

Associate Curator Invertebrate Paleontology.—Chester A. Reeds.

Department of Mineralogy.

Curator.—Herbert P. Whitlock.

Department of Woods and Forestry.

Curator.—Miss M. C. Dickerson.

Department of Invertebrate Zoology.

Honorary Curator.—W. M. Wheeler.
Curator.—Henry E. Crampton.
Associate Curators.—R. W. Miner. F. E. Lutz.

Department of Ichthyology and Herpetology.

Honorary Curator.—Bashford Dean.
Associate Curator Recent Fishes.—John T. Nichols.
Associate Curator Herpetology.—Miss M. C. Dickerson.
Assistant Curator Herpetology.—G. K. Noble.

Department of Mammalogy and Ornithology.

Curator.—J. A. Allen.
Curator Ornithology.—Frank M. Chapman.
Associate Curator Mammalogy.—R. C. Andrews.
Associate Curator Ornithology.—W. de W. Miller.
Associate Curator Mammalogy.—H. E. Anthony.
Assistant Curator Mammalogy.—Herbert Lang.

Department of Vertebrate Paleontology.

Honorary Curator.—Henry Fairfield Osborn.
Curator.—W. D. Matthew.
Associate Curator Fossil Mammals.—Walter Granger.
Associate Curator Fossil Reptiles.—Barnum Brown.
Associate in Paleontology.—William K. Gregory.

Department of Anthropology.

Curator.—Clark Wissler.
Curator Ethnology.—Pliny E. Goddard.
Associate Curator.—Robert H. Lowie.
Assistant Curators.—
 Herbert J. Spinden. N. C. Nelson. C. W. Mead. Louis R. Sullivan.

Department of Anatomy and Physiology.

Curator.—Ralph W. Tower.

Department of Public Health.

Curator.—Charles-Edward A. Winslow.

Department of Public Education.

Curator.—George H. Sherwood.
Associate Curator.—G. Clyde Fisher.

Books and Publications.—Library of 60,000 volumes. *Curator.*—Ralph W Tower, Ph.D. *Assistant Librarian:* Miss I. R. Hood, A.B.
 7 Assistants, 11 Research Associates.

THE METROPOLITAN MUSEUM OF ART,

Fifth Avenue and 82nd Street, New York.

Incorporated 1870, for the purpose of encouraging and developing the study of Fine Arts, and the application of the Arts to manufactures and practical life: advancing the general knowledge of kindred subjects, and, to that end, furnishing popular instruction.

The Museum collections include Painting, Sculpture, and Architecture. Ancient Art includes Egyptian, Babylonian, Assyrian, Phœnician, Cypriote, Etruscan, Greek, and Roman antiquities. In Painting, the attempt is made to illustrate the history of the art in antiquity, and from the Middle Ages to the present time, with especial attention to the work of American artists. The Department of Decorative Arts include works of various kinds in wood, metal, glass, etc., ceramics, tapestries, rugs, laces, and other textiles. The collections represent the Far East (China, Japan, Korea) and the Near East (Persia, India, and Asia Minor), Europe, and America. Special attention is given to American Art.

There are five study rooms, devoted respectively to textiles, European Decorative Arts, Prints, Classical and Egyptian antiquities.

The Library of the Museum contains about 33,000 volumes and 45,000 photographs, which are for the use of any visitor. *Librarian:* W. Clifford.

	1917.	1918.
Cost of administration	\$481,772.07	\$590,782.56
Part of cost received from the city	200,000.00	233,000.00
Total	\$281,772.07	\$357,782.56

The personnel of the Museum is as follows:

Director.—Edward Robinson.

Secretary.—Henry W. Kent.

Assistant Director.—Joseph Breck.

Assistant Treasurer.—Eliat T. Foote.

Registrar.—Henry F. Davidson.

Department of Paintings.

Curator.—Bryson Burroughs.

Department of Classical Art.

Curator.—Edward Robinson.

Department of Egyptian Art.

Curator.—Albert M. Lythgoe.

Department of Decorative Arts.

Curator.—Joseph Breck.

Department of Arms and Armour.

Curator.—Bashford Dean.

Department of Far Eastern Art.

Curator.—S. C. Bosch Reitz.

Department of Prints.

Curator.—William M. Ivins, jr.

NEW YORK ACADEMY OF SCIENCES.

e/o The American Museum of Natural History, New York.

Founded in 1817 as the Lyceum of Natural History, chartered as the New York Academy of Sciences in 1876. Has 624 Members, besides 39 Honorary Members and 106 Corresponding Members. Weekly meetings at The American Museum of Natural History, October to May, inclusive.

OFFICIALS.

President.—Edward L. Thorndike.

Recording Secretary.—R. W. Tower (American Museum of Natural History).

Corresponding Secretary.—H. E. Crampton (American Museum of Natural History).

Editor and Librarian.—R. W. Tower.

Library.—12,000 volumes in The American Museum of Natural History.

Publications :

Annals of the Lyceum of Natural History, eleven volumes, 1824-1876.

Proceedings of the Lyceum of Natural History, Series 1-11, 1870-1874.

Transactions of the New York Academy of Sciences, sixteen volumes, 1881-1897.

Memoirs of the New York Academy of Sciences, Vol. I., Astronomy; Vol. II., Zoology.

Annals of the New York Academy of Sciences, twenty-eight volumes, 1879-1919.

Reports of the Scientific Survey of Porto Rico and the Virgin Islands, Vol. I., Part I., 1919.

THE AMERICAN ORIENTAL SOCIETY, was founded in 1842 for the promotion of Oriental studies, the encouragement of research in Eastern languages and literatures, and the publication of books and papers dealing with these subjects. More recently the Society has included in its field of activity also the historical study of religion in its widest scope, and a special session at the annual meeting is now devoted to this subject, and to communications of more general interest.

OFFICIALS.

President.—Prof. Charles R. Lanman, 9, Farrar Street, Cambridge, Mass.

Corresponding Secretary.—Dr. Charles J. Ogden, 628, West 114th Street, New York City.

Recording Secretary.—Prof. Le Roy C. Barret, Trinity College, Hartford, Conn.

Librarian and Treasurer.—Prof. Albert T. Clay, 401, Humphrey Street, New Haven, Conn.

Editors of the Journal.—Profs. James A. Montgomery and Franklin Edgerton.

Publications.—Journal, Vols. I. to XXXIX. (current), from 1843 to date.

Library.—Contains over 5,000 volumes and 200 MSS.

THE NEW YORK ACADEMY OF MEDICINE, 17, 19, and 21, West 43rd Street,
New York, N.Y.

Instituted 1847. Incorporated 1851.

Membership : 1,300 Resident Fellows, 250 Non-Resident Fellows,
250 Associate Fellows.

Honorary Fellowship limited to fifty.

Objects.—The advancement of the Science and Art of Medicine, the maintenance of a Public Medical Library, and the Promotion of Public Health.

President.—G. D. Stewart, M.D.

Recording Secretary.—R. S. Haynes, M.D.

Corresponding Secretary.—D. Bryson-Delavan, M.D.

Treasurer.—S. M. Milliken, M.D.

Library.—114,201 volumes. *Librarian* : J. S. Brownne.

AMERICAN GEOGRAPHICAL SOCIETY, Broadway at 156th Street, New York City.
(1852.)

Members, 3,771.

President.—John Greenough.

Director and Editor.—Isaiah Bowman.

Medals : Callum Geographical Medal, Charles P. Daly Medal, David Livingstone Centenary Medal of the Hispanic Society of America.

Library.—53,995 books, 41,563 maps.

Publications :

Journal and Bulletin (1852-1915).

Geographical Review (since 1916), containing authoritative articles of general interest.

Journal of Geography (since January, 1919), devoted to the educational aspect of the subject.

Series of Monographs (1 volume annually), Occasional Maps.

AMERICAN CHEMICAL SOCIETY, New York. (1876.)

Membership (1919), 13,410.

President.—W. H. Nichols, 25, Broad Street, New York City.

Secretary.—C. L. Parsons, Box 505, Washington, D.C.

Treasurer.—E. G. Love, 124E, 15th Street, New York City.

The object of the Society is the advancement of chemistry and the promotion of chemical research.

DIVISIONS.

There are nine divisions of the Society :

Agricultural and Food Chemistry.—W. D. Richardson.

Biological Chemistry.—I. K. Phelps.

Fertilizer Chemistry.—F. B. Carpenter.

Industrial Chemistry and Chemical Engineering.—H. S. Miner.

Organic Chemistry.—L. W. Jones.

Pharmaceutical Chemistry.—F. O. Taylor.

Physical and Inorganic Chemistry.—W. E. Henderson.

Rubber Chemistry.—J. B. Tuttle.

Water, Sewage and Sanitation Chemistry.—R. S. Weston.

The Society affords especial facilities for chemists interested in a particular branch of the science to organize themselves into a representative body within its ranks. There are also fifty-six local sections which hold monthly meetings.

The Society publishes three journals :

Journal of the American Chemical Society (now in its 41st volume). *Editor* : A. B. Lamb, Harvard University, Cambridge, Mass.

Chemical Abstracts (now in its 13th volume). *Editor* : E. J. Crane, Ohio State University, Columbus, O.

Journal of Industrial and Engineering Chemistry (now in its 11th volume). *Editor* : C. H. Herty, 35E, 41st Street, New York City.

AMERICAN SOCIETY FOR PSYCHICAL RESEARCH, 44, East 23rd Street, New York. (1884.)

Secretary.—J. H. Hyslop, Ph.D., LL.D.

THE GEOLOGICAL SOCIETY OF AMERICA. (1888.)

c/o American Museum of Natural History, 77th Street and Central Park West, New York City.

Members, 441.

President.—Dr. J. C. White, Morgantown W., Va.

Secretary.—Dr. E. Otis Hovey.

Object of the Organization.—To promote the Science of Geology in North America.

AMERICAN MATHEMATICAL SOCIETY, 501, West 116th Street, New York City.

Organized as the New York Mathematical Society, 1888. Reorganized as the American Mathematical Society, 1894.

Objects.—To encourage and maintain an active interest in Mathematical Science.

President.—Prof. Frank Morley, Johns Hopkins University.

Secretary.—Prof. F. N. Cole, Columbia University.

Meetings are held ten times a year, in New York, Chicago, and other cities. Membership, 740.

Publications : Bulletin (1891). Transactions (1900). Colloquium Lectures (1905).

CARNEGIE FOUNDATION FOR THE ADVANCEMENT OF TEACHING,

576, Fifth Avenue, New York.

Founded in 1905 by the late Andrew Carnegie.

The Foundation grants retiring allowances to professors, and pensions to their widows, in a group of seventy-six Universities and Colleges; the Institutions being selected in the United States, Canada, and Newfoundland for their educational qualifications. During the thirteen years ending June 30, 1918, pensions and allowances had been granted, representing an expenditure of \$6,250,000.

The Division of Educational Enquiry, established in 1913, has issued a dozen bulletins including comprehensive studies of Medical Education, Engineering Education, Legal Education, and the Preparation of Teachers. The publications of the Foundation are distributed without charge.

The Foundation was incorporated by the United States Congress. It is administered by a board of twenty-five trustees, the presidents of Columbia, Harvard, McGill, Toronto, Yale, and other representative Universities and Colleges. The officers are:

President.—H. S. Pritchett.

Treasurer.—R. A. Franks.

Secretary.—Clyde Furst.

PSYCHIATRIC INSTITUTE OF THE NEW YORK STATE HOSPITALS,

Ward's Island, New York City, N.Y.

Central Laboratory, Clinical Research and Teaching Institute for the State Hospitals of New York.

Purpose.—Conducting Research Work in the Field of Psychiatry, with the cooperation of the physicians of the various State hospitals. Psychiatric training and teaching of the physicians in the State hospitals.

OFFICIALS.

Director.—G. H. Kirby, M.D.

Assistant Director.—G. O. Cheney, M.D.

Chief Associate in Neuropathology.—C. B. Dunlap, M.D.

3 Physician Assistants, 5 Laboratory Assistants.

Library.—4,500 volumes.

PALEONTOLOGICAL SOCIETY.

Paleontological Society of America founded in 1908. Affiliated with Geological Society of America. Publishes results only in Bulletin of Geological Society of America. 190 members in 1919.

OFFICIALS.

President.—R. T. Jackson, Peterborough, New Hampshire.
Secretary.—R. S. Bassler, Washington, D.C.

THE NEW YORK BOTANICAL GARDENS, Bronx Park, New York City. (1896.)

STAFF.

Director-in-Chief (Development, Administration).—N. L. Britton.
First Assistant (Administration).—H. A. Gleason.
Supervisor of Public Instruction.—W. A. Merrill.
Head Curator of the Museums (Flowering Plants).—J. K. Small.
Curator (Flowering Plants).—P. A. Rydberg.
Curator (Flowerless Plants).—M. A. Howe.
Curator (Flowerless Plants).—F. J. Seaver.
Administrative Assistant.—R. S. Williams.
Associate Curator.—P. Wilson.
Associate Curator.—F. W. Pennell.
Head Gardener.—G. V. Nash,
Director of the Laboratories.—A. B. Stout.
Bibliographer.—J. H. Barnhart.
Honorary Curator of the Economic Collections.—H. H. Rusby.
Honorary Curator of Mosses.—Mrs. E. G. Britton.
Honorary Curator of Fossil Plants.—A. Hollick.
Consulting Chemist.—W. J. Gies.
Landscape Engineer.—J. R. Brinley.
Supervisor of Gardening Instruction.—K. R. Boynton.

The garden occupies 400 acres. It contains a large Museum of Economic Botany, Fossil Plants, and Systematic Collection, extensive greenhouses, outdoor gardens of hardy plants, and a Herbarium of 1,500,000 sheets, also Laboratories properly equipped for botanical research.

Publications.—

Journal of the New York Botanical Garden (monthly), \$1.00 per year (not offered in exchange).
 Mycologia (bi-monthly), \$4.00 per year (not offered in exchange).
 Addisonia (quarterly), \$10.00 per year (not offered in exchange).
 Bulletin of the New York Botanical Garden, \$3.00 per volume (offered in exchange).
 North America Flora, \$1.50 per part, four or more parts to a volume (not offered in exchange).
 Memoirs of the New York Botanical Garden, \$3.00 per volume (not offered in exchange).
 Contributions from the New York Botanical Garden, \$5.00 per volume.
 Library.—30,000 volumes. *Librarian*: Miss S. H. Harlow.

NEW ZEALAND, UNIVERSITY OF. See WELLINGTON.

NORFOLK (Virginia).

TRUCK STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—T. C. Johnson.

NORMAN

UNIVERSITY OF OKLAHOMA, Norman, Oklahoma. (1892.)

Tuition is free to residents of the State. The Institution has had a very rapid growth both in size and in strength in the past six years.

The third and fourth years of the Medical School are situated at Oklahoma City, 18 miles from Norman.

Terms : Two semesters and a summer session. *Students* : 3,256.

Budget (1919-1920):

Maintenance	\$567,849.00
Buildings	\$240,110.37

OFFICIALS.

President.—Stratton Duluth Brooks.

Vice-President.—Edwin De Barr.

Secretary and Registrar.—Errett Rains Newby.

Financial Clerk.—Josiah Lawrence Lindsey.

Librarian.—Jesse Lee Rader.

A Dean acts as the head of each of the major Schools and Colleges. A Director is at the head of the subordinate Schools.

Degrees conferred.—B.A., B.S., B.S. in M.E., C.E., in Chem. E., M.E. in Engineering and Geology, M.D., B.M., B.F.A., B.S. in Pharmacy, Ph.C., Ph.G., LL.B., M.A., M.S. in Engineering, Chem. E., C.E., E.E.

PROFESSORS.

COLLEGE OF ARTS AND SCIENCES.

Dean.—J. S. Buchanan.

Professors :

[ology.

J. F. Paxton, *Greek and Classical Arche-*

J. W. Sturgis, *Latin*.

S. W. Reaves, *Mathematics*.

S. R. Hadsell, *English*.

G. Y. Williams, *Physical Chemistry*.

H. H. Lane, *Zoology*.

J. Dowd, *Sociology*.

T. H. Brewer, *English*.

L. Dora, *French*.

W. P. Hasaman, *Physics*.

J. Alley, *Government*.

R. T. House, *German*.

A. C. Parsons, *Secondary Education*.

W. W. Phelan, *Psychology and Educa-*
tion.

A. C. Scott, *University Extension*.

J. W. Scroggs, *University Extension*.

W. A. Schmidt, *Educational Adminis-*
tration.

R. G. Soutar, *Physical Education*.

P. Gimeno, *Spanish*.

H. H. Herbert, *Journalism*.

A. B. Adams, *Economics*.

Associate Professors :

M. A. Floyd, *History*.

J. H. Voss, *German*.

P. R. Duval, *Mathematics*.

F. F. Blachly, *Government*.

U. J. Griffith, *Secondary Education*.

J. W. Bridges, *Agricultural Education*.

F. W. Padgett, *Chemistry*.

Assistant Professors :

A. R. Ramey, *English*.

B. G. Owen, *Physical Education*.

H. C. Gossard, *Mathematics*.

A. Steitz, *German*.

I. M. Rapp, *Physics*.

V. E. Monnett, *Geology*.

A. H. Stang, *Physics*.

E. N. Ferriss, *Education*.

Assistant Professors—Continued :

N. Altshiller, *Mathematics*.

E. E. Dale, *History*.

C. E. Decker, *Geology*.

L. N. Morgan, *English*.

T. B. Robb, *Economics*.

A. J. Williams, *Geology*.

J. R. Cable, *Economics*.

H. E. Cunningham (Miss), *Philosophy*.

H. B. Davis, *Secondary Education*.

R. Martin, *Spanish*.

M. J. Mitchell (Miss), *Correspondence*
Study.

T. F. Pierce, *Education*.

H. J. Hopkins (Miss), *Domestic Science*.

S. M. Salyer, *English*.

F. E. Tarman, *Journalism*.

COLLEGE OF ENGINEERING.

Dean.—J. H. Felgar.

Professors :

J. I. Tucker, *Civil Engineering*.

L. W. Morrow, *Electrical Engineering*.

H. L. Whittemore, *Mechanics*.

Associate Professors :

J. C. Davis, *Mechanics*.

F. G. Tappan, *Electrical Engineering*.

R. C. Terrell, *Highway Engineering*.

Assistant Professors :

J. C. Lichty, *Mechanical Engineering*.

G. B. Helmrich " "

COLLEGE OF MEDICINE AND
PHARMACY.

Dean.—Le Roy Long (Medicine).

Dean.—D. B. R. Johnson (Pharmacy).

Professors :

L. A. Turley, *Histology and Pathology*.

A. K. West, *Medicine*.

E. S. Ferguson, *Ophthalmology*.

L. H. Buxton, *Otology, Rhinology, and*

Laryngology.

G. Ellison, *Bacteriology*.

Professors—Continued :

- J. S. Hartford, *Gynecology*.
 L. B. Nice, *Physiology*.
 A. Young, *Neurology*.
 J. W. Duke, *Mental Diseases and Jurisprudence*.
 R. M. Hargrove, *Anatomy*.
 J. A. Hatchett, *Obstetrics*.

Associate Professors :

- R. M. Howard, *Surgery*.
 J. W. Riely, *Genito-Urinary Surgery*.
 H. Reed, *Surgery*.
 A. L. Blesh, *Surgery*.
 E. F. Davis, *Ophthalmology*.
 G. A. La Motte, *Medicine*.
 L. J. Moorman, *Medicine*.
 L. A. Riley, *Medicine*.
 H. C. Todd, *Otology, Rhinology, and Laryngology*.
 S. R. Cunningham, *Gynecology*.
 R. L. Hull, *Orthopedic Surgery*.
 E. S. Lain, *Dermatology, Electro-Therapy, and Radiography*.
 R. E. Looney, *Obstetrics*.
 M. Smith, *Clinical Surgery*.
 W. M. Taylor, *Pediatrics*.
 A. W. White, *Medicine*.
 J. M. Alford, "
 W. F. Dixon, *Otology, Rhinology, and Laryngology*.
 D. W. Griffin, *Mental Diseases and Medical Jurisprudence*.
 W. Langston, *Clinical Pathology*.
 F. B. Sorgatz, "
 W. J. Wallace, *Genito-Urinary Diseases and Syphilology*.

Assistant Professors :

- J. F. Kuhn, *Surgery*.
 J. T. Martin, *Medicine*.

Post-Graduate Courses.—Post-Graduate work is offered leading to Academic, Scientific, and Engineering Graduate degrees.

Museums.—The botanical, zoological, paleontological collections are excellent. They include the Carroll collection of eggs, birds, animals, and shells, and the Dorrance collection of butterflies and moths, comprising about 650 species collected in Costa Rica. The paleontology collection includes the Bennet collection of about 10,000 fossils.

The School of Medicine has a good collection of gross and microscopic pathologic specimens.

The University historical and ethnological collections contain many valuable and interesting specimens.

49 Instructors, 6 Assistants, 2 Teaching Fellows, 39 Special Lecturers.

NORTH CAROLINA, UNIVERSITY OF. See CHAPEL HILL.

NORTH DAKOTA, UNIVERSITY OF. See GRAND FORKS.

NORTHAMPTON INSTITUTE. See LONDON.

NORTHAMPTON (Massachusetts).

SMITH COLLEGE, Northampton, Mass. (1875.)

Terms : Two semesters a year.

Students : 2,010.

Univ Calif - Digitized by Microsoft®

Assistant Professors—Continued :

- J. F. Messenbaugh, *Pediatrics*.
 A. A. Will, *Rectal Surgery*.
 F. J. Bolend, *Medicine*.
 T. C. Burns, *Neurology*.
 L. E. Andrews (Miss), *Pediatrics*.
 J. A. Reck, *Gynecology*.
 C. J. Fishman, *Medicine*.
 W. A. Fowler, *Obstetrics*.
 R. G. Bolend, *Genito-Urinary Diseases and Syphilology*.
 C. E. Clymer, *Surgery*.

SCHOOL OF LAW.

Dean.—J. C. Monnet.

Professors :

- H. H. Foster, *Law*.
 J. B. Cheadle, "
 V. H. Kulp, "
 J. W. Madden, "
 L. P. Wilson, "

SCHOOL OF FINE ARTS.

Dean.—Fredrik Holmberg.

Professors :

- E. E. Dungan (Miss), *Music and Piano*.
 C. F. Giard, *Piano and Theory of Music*.

Associate Professors :

- P. S. Carpenter, *Violin*.
 O. B. Jacobson, *Art*.
 L. S. Salter, *Piano and Theory of Music*.
 G. F. W. Schmidt, *Voice*.

Assistant Professors :

- A. Bragg (Miss), *Voice*.
 F. Kuschan, *Music*.
 O. A. J. Lehrer, *Music*.
 M. F. Gibbons (Miss), *Violin*.

OFFICIALS.

President.—W. A. Neilson, Ph.D., LL.D.

Registrar.—Miss M. Eastman, A.B.

Treasurer.—George B. McCullam, A.B.

Degrees conferred.—A.B., A.M., Ph.D., B.S., M.S.

PROFESSORS.

Professors :

- E. P. Cushing (Miss), *Mathematics*.
 M. A. Jordan (Miss), *English Language and Literature*.
 H. N. Gardiner, *Philosophy*.
 D. W. Tryon, *Art*.
 J. E. Brady, *Latin Language and Literature*.
 H. H. Wilder, *Zoology*.
 I. F. Wood, *Biblical Literature and Comparative Religion*.
 W. F. Ganong, *Botany*.
 F. A. Waterman, *Physics*.
 E. H. Mensel, *Germanic Languages and Literature*.
 C. F. Emerick, *Economics and Sociology*.
 H. D. Sleeper, *Music*.
 J. H. Caverno (Miss), *Greek*.
 E. D. Hanscom, *English Language and Literature*.
 A. A. Cutler (Miss), *Philosophy*.
 A. V. Churchill, *History and Interpretation of Art*.
 J. S. Bassett, *American History*.
 R. E. S. Olmsted, *Vocal Music*.
 H. W. Bigelow (Miss), *Astronomy*.
 F. Gilman (Miss), *Hygiene*.
 C. B. Bourland (Miss), *Spanish Language and Literature*.
 A. Schinz, *French Language and Literature*.
 H. V. Abbott, *English Language and Literature*.
 E. Kimball, *History*.
 C. F. A. Lange, *German*.
 L. Delpit (Miss), *French Language and Literature*.
 R. G. Wood (Miss), *Mathematics*.
 W. J. Miller, *Geology*.
 D. C. Rogers, *Psychology*.
 S. B. Fay, *European History*.
 S. N. Deane, *Greek*.
 H. R. Cobb (Miss), *Mathematics*.
 A. H. Abel (Miss), *History*.
 J. E. Goldthwait, *Hygiene*.
 R. A. Rice, *English Language and Literature*.
 R. Piccoli, *Italian*.
 F. A. Gragg (Miss), *Latin*.
 R. S. Smith, *Biblical Literature*.
 J. C. Hildt, *History*.
 A. L. Barbour (Miss), *Greek*.
 R. W. Holmes (Miss), *Music*.
 R. Michaud (Miss), *French Language and Literature*.

Associate Professors :

- M. B. McElwain (Miss), *Latin*.
 F. S. Chapin, *Economics and Sociology*.
 L. A. Bliss (Miss), *Latin*.
 E. P. Cook (Miss), *Chemistry*.
 J. W. Snow (Miss), *Botany*.
 E. Bates (Miss), *Music*.
 E. S. Mason (Miss), *Chemistry*.
 L. S. Cheever (Miss), *English Language and Literature*.
 M. B. Fuller (Miss), *History*.
 F. G. Smith (Miss), *Botany*.
 W. D. Gray, *History*.
 J. Wiehr, *German*.
 M. Bradshaw (Miss), *English Language and Literature*.
 A. A. Heine (Miss), *Geology*.
 S. R. Benedict (Miss), *Mathematics*.
 M. L. Foster (Miss), *Chemistry*.
 I. W. Wilder, *Zoology*.
 A. W. Locke, *Music*.
 M. M. Hopkins (Miss), *Astronomy*.
 W. T. Moog, *Music*.
 H. G. Townsend, *Education*.
 M. D. Lewis (Miss), *English Language and Literature*.
 R. D. Weleh, *Music*.
 E. Lowenthal (Miss), *Economics and Sociology*.
 O. T. Robert, *French Language and Literature*.
 J. Y. Cann (Miss), *Chemistry*.
 H. M. Parshley, *Zoology*.
 M. Rooke (Miss), *Italian Language and Literature*.
 A. T. Jones, *Physics*.
 Assistant Professors :
 A. E. Miller (Miss), *German*.
 B. Strong (Miss), *Art*.
 H. De W. Carrington, *German*.
 L. S. Clark (Miss), *Chemistry*.
 F. W. Wright, *Latin*.
 S. A. Elkus (Miss), *Philosophy*.
 H. I. Williams (Miss), *French*.
 H. M. King (Miss), *French*.
 E. A. Shearer (Miss), *Education*.
 P. R. Lieder, *English Language and Literature*.
 R. Withington, *English Language and Literature*.
 S. H. Hamilton (Miss), *Music*.
 S. M. Rambo (Miss), *Mathematics*.
 M. M. Cook (Miss), *French*.
 H. A. Choate (Miss), *Botany*.
 M. M. Sampson (Miss), *Zoology*.

Assistant Professors—Continued :

- B. Goode (Miss), *Music*.
- E. Richards (Miss), *Hygiene*.
- L. Hatch (Miss), *Geology*.
- M. C. G. Woodhouse, *Economics and Sociology*.
- H. Sensency, *Art*.
- S. A. Eliot, *English Language and Literature*.
- H. R. Patch, *English*.

Assistant Professors—Continued.

- E. V. Loudon (Mrs.), *Spoken English*.
 - T. H. Port, *Music*.
 - A. Gleason (Miss), *Music*.
 - E. T. Woodhouse, *History*.
 - R. Lansing (Miss), *Spanish*.
 - J. Draehslor, *Economics and Sociology*.
- 60 Instructors, 17 Assistants, 10 Readers and Demonstrators.

Post-Graduate Courses.—A.M. and Ph.D.

NOTTINGHAM

UNIVERSITY COLLEGE, Nottingham. (1880.)

Terms : Three per year.

OFFICIALS.

- President.*—His Grace The Duke of Portland, K.E.
- Principal.*—W. H. Heaton, M.A.
- Registrar.*—J. E. Shimold.

Degrees conferred.—B.A., M.A., B.D., B.Sc., M.Sc.

PROFESSORS.

Professors :

- R. W. Bond, *English*.
- M. L. R. Beaven, *History*.
- F. S. Granger, *Classics*.
- E. Weekley, *Modern Languages*.
- A. W. Kirkaldy, *Economics*.
- A. Henderson, *Education*.
- A. Gill, *Music*.
- H. T. H. Pieggis, *Mathematics*.

Professors—Continued :

- E. H. Breton, *Physic*.
 - F. S. Kipping, *Chemistry*.
 - J. W. Carr, *Biology*.
 - H. H. Swinnerton, *Geology*.
 - C. H. Balleid, *Engineering*.
 - W. Robinson, *Technology*.
 - W. H. McMillan, *Mining*.
- 60 Lecturers, Assistants, etc.

OBERLIN (Ohio).

OBERLIN COLLEGE, Oberlin, Ohio. (1833.)

Terms : Two semesters.

Students : 1,500.

Budget : \$675,000 a year.

OFFICIALS.

- President.*—Henry Churchill King, D.D., LL.D., L.H.D.
- Dean of the College of Arts and Sciences.*—C. N. Cole, Ph.D.
- Dean of the School of Theology.*—E. I. Bosworth, D.D.
- Director of the Conservatory of Music.*—C. W. Morrison, Mus.D.
- Secretary.*—G. M. Jones, A.M.
- Assistant President.*—W. F. Bohn, A.M.
- Treasurer.*—H. B. Thurston, Ph.B.
- Assistant Secretary.*—J. E. Wirkler, A.M.
- Librarian.*—A. S. Root, A.M.

Degrees conferred.—A.B., A.M., Mus.B., Mus.M., D.B., S.T.M.

PROFESSORS.

FACULTY OF ARTS AND SCIENCES.

Professors :

- A. S. Root, *Bibliography*.
- C. B. Martin, *Greek Literature and Greek Archeology*.
- F. Andercgg, *Mathematics*.
- F. E. Leonard, *Hygiene and Physical Education*.

Professors—Cont'nued :

- A. M. Abbott (Miss), *German Language and Literature*.
- D. Hanna (Miss), *Physical Education*.
- S. F. MacLennan, *Philosophy and Comparative Religion*.
- F. O. Grover, *Botany*.
- C. H. A. Wager, *English*.
- E. A. Miller, *Education*.

Professors—Continued :

- C. N. Cole, *Latin*.
 F. M. Fitch (Miss), *Biblical Literature*
 (Dean of Women).
 C. W. Savage, *Physical Education*:
Director of Athletics.
 K. F. Geiser, *Political Science*.
 R. H. Stetson, *Psychology*.
 S. R. Williams, *Physics*.
 L. E. Lord, *Latin Language and Literature*.
 G. D. Hubbard, *Geology and Geography*.
 R. A. Budington, *Zoology*.
 C. G. Rogers, *Comparative Physiology*
in the Department of Zoology.
 D. R. Moore, *Medieval and Modern*
European History.
 H. L. Lutz, *Economics*.
 H. A. Miller, *Sociology*.
 H. N. Holmes, *Chemistry*.
 C. Ward, *History and Appreciation of*
Art.

Associate Professors :

- W. D. Cairns, *Mathematics*.
 K. L. Cowdery, *French*.
 R. P. Jameson, *Romance Languages*.
 T. N. Metcalf, *Physical Education*.
 H. Clark, *Physics*.
 F. J. Hosford (Miss), *Acting Dean of*
Women.
 L. Jones, *Animal Ecology*.
 P. D. Sherman, *English*.
 E. M. Oakes (Miss), *Drawing and*
Painting.
 M. E. Sinclair (Miss), *Mathematics*.
 W. H. Chapin, *Chemistry*.
 R. A. Jelliffe, *English Composition*.
 J. C. McCullough, *Chemistry*.
 S. P. Nichols (Miss), *Botany*.
 H. F. Cochran (Miss), *Physical Educa-*
tion.
 E. M. Kitch (Miss), *Philosophy*.

Assistant Professors :

- L. Alexander, *Latin and Greek*.
 C. C. W. Nicol, *Psychology and Philo-*
sophy (Dean of Men).
 H. L. King, *History*.
 A. I. Taft, *English*.
 E. S. Jones, *Psychology*.
 J. Speelman, *Physical Education*.
 H. H. Preston, *Economics*.
 E. L. Baker, *French*.
 H. Kyrk (Miss), *Economics*.
 J. B. de Forest, *French*.
 J. F. Mack, *English*.

Museums.—

- Zoological Museum. *Curator*: L. Jones.
 Art Museum. *Director*: C. Ward.

Assistant Professors—Continued :

- L. F. Keller, *Physical Education*.
 R. S. McEwen, *Zoology*.
 G. S. Skinner, *Chemistry*.
 D. Edwards, *Oratory*.
 18 Instructors, 6 Assistants.

GRADUATE SCHOOL OF THEOLOGY.

Professors :

- H. C. King, *Theology and Philosophy*.
 E. I. Bosworth, *New Testament Lan-*
guage and Literature.
 G. W. Fiske, *Practical Theology*.
 K. Fullerton, *Old Testament Language*
and Literature.
 W. J. Hutchins, *Homiletics*.
 I. C. Hannah, *Church History*.
 H. A. Youtz, *Philosophy of Religion*
and Christian Ethics.
 L. F. Miskovsky (Principal of Slavic
 Department), *Bohemian Language*.

THE CONSERVATORY OF MUSIC.

Professor :

- H. H. Carter, *Pianoforte*. [tion.
 G. W. Andrews, *Organ and Composi-*
A. S. Kimball, Singing.
 E. Dickinson, *History and Criticism*
of Music.
 E. G. Sweet, *Singing*.
 W. K. Breckenridge, *Pianoforte*.
 A. E. Heacox, *Theory*.
 C. K. Barry, *Pianoforte*.
 W. T. Upton ,,
 H. Harroun, *Singing*.
 C. H. Adams ,,
 F. J. Lehmann, *Theory*.
 W. J. Horner, *Singing*.
 G. C. Hastings, *Pianoforte*.
 F. A. Goerner, *Violoncello*.
 O. A. Lindquist, *Pianoforte*.
 F. G. Nash (Miss), *Dramatic Expres-*
sion (Dean of Women).
 M. Koessler, *Violin and Ensemble*.
 B. H. Davis, *Pianoforte*.
 K. W. Gehrken, *School Music*.
 F. B. Stiven, *Organ*.

Assistant Professors :

- M. J. Adams (Mrs.), *Singing*.
 A. M. Hastings (Mrs.), *Pianoforte*.
 A. H. Doolittle (Mrs.) ,,
 B. A. Miller (Mrs.) ,,
 M. U. Bennett (Mrs.), ,,
 W. H. Frederick, *Wind Instruments*.
 7 Instructors.

OHIO ACADEMY OF SCIENCE. See COLUMBUS.

STATE UNIVERSITY. See COLUMBUS.

OHIO UNIVERSITY. See ATHENS.

OHIO WESLEYAN UNIVERSITY. See DELAWARE.

OKLAHOMA UNIVERSITY. See NORMAN.

OMAHA (Nebraska).

THE CREIGHTON UNIVERSITY, Omaha, Nebraska. (1878.)

Students : 1,061.

Budget : Productive Endowment, \$2,750,000.

OFFICIALS.

President.—Rev. J. McCormick, S.J.

Dean, College of Law.—(Vacant.)

Dean, College of Dentistry.—A. H. Hipple.

Dean, College of Pharmacy.—H. C. Newton.

Dean, College of Medicine.—H. Von W. Schulte.

Dean, College of Arts and Sciences.—Rev. R. M. Kelley, S.J.

Degrees conferred.—A.B., B.S., Ph.B., B.Litt., A.M., LL.B., M.D., D.D.S.

PROFESSORS.

COLLEGE OF ARTS AND SCIENCES.

Professors :

C. M. Bakewell, *Greek*.Rev. W. Padberg, *Latin*.Rev. F. B. Cassilly, *Pedagogy and Christian Doctrine*.B. Damilano, *Spanish*.Rev. J. B. De Shryver, *French*.J. F. M. Duchren, *French*.Rev. A. M. Effinger, *English and Political Economy*.Rev. W. J. Corbey, *English*.Rev. A. Kaufmann, *History and German*.Rev. L. Kellinger, *Public Speaking*.J. E. Kenny, *Spanish*.Rev. J. A. Krance, *Chemistry and German*.T. E. Mills, *Athletics*.M. A. Schaefer, *Biology*.Rev. W. P. Quinlan, *Philosophy and Mathematics*.Rev. F. X. Reilly, *English and Christian Doctrine*.Rev. W. F. Rigge, *Physics and Astronomy*.Rev. F. A. Meyer, *Psychology and Ethics*.Rev. J. A. Weis, *Latin*.

COLLEGE OF DENTISTRY.

Professors :

A. H. Hipple, *Operative Dentistry*.E. H. Bruening, *Dental Anatomy*.B. H. Harms, *Anesthesia and Oral Surgery*.T. T. Harris, *Radiology*.H. E. King, *Clinical Practice*.R. Kleyla, *Physical Diagnosis*.E. H. Orchard, *Technical Drawing*.W. L. Ross, *Dental Neurology*.

Professors—Continued :

O. Runyan, *Radiology*.J. A. Sanders, *Anatomy*.W. H. Sherraden, *Prosthetic and Clinical Dentistry, Crown and Bridge Work*.W. Sorenson, *Technical Drawing*.W. E. Stoft, *Orthodontia*.C. J. Wonder, *Oral Surgery*.C. E. Woodbury, *Gold Foil Manipulation*.

1 Lecturer, 11 Demonstrators.

COLLEGE OF LAW.

Professors :

H. F. Gillespie, *Law*.

A. H. Bigelow "

D. J. Burke "

J. M. Fitzgerald "

N. D. Reardon "

W. P. Sternberg "

L. T. Te Pool "

11 Lecturers.

COLLEGE OF PHARMACY.

Professors :

H. C. Newton, *Pharmacy*.A. L. Muirhead, *Pharmacology*.

2 Lecturers.

COLLEGE OF MEDICINE.

Professors :

W. J. Nolan, *Chemistry*.V. J. Fitz-Simon, *Chemistry*.H. F. Gerald, *Histology and Physiology*.J. S. Foote, *Pathology*.J. M. Barstow, *Therapeutics*.R. Rix, *Gynecology*.B. M. Riley, *Medicine*.H. L. Akin, *Clinical Medicine*.A. Mack, *Obstetrics*.H. L. Arnold, *Ophthalmology*.A. D. Dunn, *Medicine*.

Professors—Continued :

- G. F. Simanek, *Surgery*.
 A. F. Tyler, *Clinical Roentgenology*.
 A. Sachs, *Clinical Medicine*.
 C. McMartin, *Dermatology and Genito-Urinary Diseases*.
 A. K. Detwiler, *Clinical Therapeutics*.
 N. Jones, *Pediatrics*.
 S. Morgulis, *Physiology and Bio-Chemistry*.
 H. Von W. Schulte, *Anatomy*.
 A. J. Brown, *Surgery*.
 H. N. Stevenson, *Bacteriology and Surgical Pathology*.
 T. J. Dwyer, *Surgery*.
 S. McCleneghan, *Obstetrics*.
 L. A. Dermody, *Orthopedics*.
 F. J. Langdon, *Surgery*.
 F. J. Schieier
 M. Wohl, *Clinical Pathology*.
 L. B. Bushman, *Otology*.

Libraries.—

- The Creighton University Library. *Librarian* : Rev. W. T. Kinsella.
 The Creighton Medical Library. *Librarian* : Miss L. Cranney.
 The Creighton Law Library. *Librarian* : H. F. Gillespie.
 The Creighton Dental Library. *Librarian* : C. E. Burns.

Museum.—The Creighton University Museum. *Curator* : Rev. W. F. Rigge.

Post-Graduate Courses.—Leading to M.A. and P.C.

UNIVERSITY OF NEBRASKA COLLEGE OF MEDICINE, Medical Campus, 42 and Dewey Avenue, Omaha, Nebraska. (1882.)

Terms : One session.

Students : 190.

Budget :

For Medical College	\$75,000 per annum.
For Hospital	90,000 ,, ,,

OFFICIALS.

Chancellor.—S. Avery, Ph.D., LL.D.

Dean.—I. S. Cutter, B.Sc., M.D.

Degree conferred.—M.D.

PROFESSORS.**Professors :**

- A. Guenther, *Physiology*.
 C. McCorkle Poynter, *Anatomy*.
 W. Willard, *Anatomy*.
 M. I. Smith, *Pharmacology*. [*ology*.
 H. E. Eggers, *Pathology and Bacteri-*
 W. Bridges, *Principles and Practice of*
Medicine and Clinical Medicine.
 H. Gifford, *Ophthalmology and Otology*.
 W. F. Milroy, *Clinical Medicine and*
Physical Diagnosis.
 A. F. Jonas, *Practice of Surgery and*
Clinical Surgery.
 H. M. McClanahan, *Pediatrics*.
 B. B. Davis, *Principles of Surgery and*
Clinical Surgery.
 F. S. Owen, *Laryngology and Rhinology*.
 A. Schalek, *Dermatology and Syphi-*
ology.
 Le Roy Crummer, *Clinical Medicine*.
 J. P. Lord, *Orthopedic Surgery*.
 J. E. Summers, *Clinical Surgery*.

Professors—Continued :

- N. F. Steiner, *Medicine*.
 J. Duncan, *Genito-Urinary Diseases*.
 J. M. Sehramek, *Surgery*.
 G. W. Dishong, *Nervous and Mental*
Diseases.
 E. Chaloupka, *Gynecology*.
 G. J. Nemce, *Surgery*.
 F. W. Heagey, *Anatomy*.
 W. Y. Thompson, *Medicine*.
 S. Hecht, *Physiology*.
 V. E. Levin, *Bio-Chemistry*.
 P. T. Conlan, *Anatomy*.
 C. F. Crowley, *Physics, Chemistry,*
Metallurgy, and Biology.
 F. J. Despecher, *Materia Medica and*
Therapeutics.
 J. W. Duncan, *Special Diseases*.
 H. F. Gerald, *Bacteriology, Physiology*
Pathology, and Histology.
 24 Lecturers.

Assistant Professors :

- J. S. Goetz, *Therapeutics*.
 B. W. Christie, *Pediatrics*.
 R. W. Bliss, *Clinical Medicine*.
 R. R. Hollister, *Surgery*.
 C. R. Kennedy, *Urology*.
 J. M. Banister, *Surgery*.
 C. C. Morrison
 E. L. Bridges, *Clinical Medicine*.
 A. A. Johnson (Superintendent of
 Dispensary), *Clinical Pathology*.
 J. T. Myers, *Bacteriology*. [*Otology*.
 J. McDowell Patton, *Ophthalmology and*
 E. G. Davis, *Urology*.

50 Instructors, Clinical Assistants, etc.

Post-Graduate Courses.—Post-Graduate Courses in all Departments leading to A.M., Ph.D. Courses given in conjunction with Graduate College of University.

Library.—The Library of the College of Medicine contains 15,000 bound volumes, 12,000 pamphlets and reprints, 140 current journals on regular subscription list. *Librarian*: Miss H. Wilson.

ONDERSTEEPOORT (South Africa).

DIVISION OF VETERINARY RESEARCH OF THE UNION OF SOUTH AFRICA.

The Head Laboratories are situated at Onderstepoort, seven miles north of Pretoria.

Permanent Branch Laboratories are situated at Allerton, near Maritzburg, Natal; at Grahamstown, E. Cape; and Armordsvlakte, near Vryburg, Bechuanaland.

Postal Address: Box 593, Pretoria.

OFFICIALS AT ONDERSTEEPOORT.

R. E. Montgomery, *Director of Veterinary Research.*
 D. T. Mitchell, *Assistant Director of Veterinary Research.*
 H. H. Green, *Bio-Chemist.*
 F. Veglia, *Senior Veterinary Research Officer.*
 E. M. Robinson, *Veterinary Research Officer.*
 G. de Koek, " "
 H. H. Carson, " "
 T. Scheuber, " "
 H. Kind " "
 C. P. Nesor " "

OFFICIAL AT ALLERTON, MARITZBURG.

W. H. Andrews, *Senior Veterinary Research Officer.*

Postal Address: Box 405, Pietermaritzburg.

OFFICIAL AT GRAHAMSTOWN.

(Vacant), *Senior Veterinary Research Officer.*

Postal Address: Box 41, Grahamstown.

OFFICIAL AT ARMORDSVLAKTE, VRYBURG.

SPECIAL INVESTIGATIONS.

Sir Arnold Theiler, *Director of Lamziekte Research.*

Postal Address: H. Meier, *Veterinary Research Officer.* Box 14, Vryburg.

ONTARIO AGRICULTURAL COLLEGE. See GUELPH.

ONTARIO VETERINARY COLLEGE. See TORONTO.

OREGON, UNIVERSITY OF. See EUGENE.

ORIENTAL COLLEGE. See LAHORE.

ORMONDE COLLEGE. See MELBOURNE.

ORONO (Maine).

UNIVERSITY OF MAINE, Orono, Maine. (1865.)

Terms: Two semesters. *Students*: (1914), 1,276; (1919), 691; (1920), 1,208.

Budget: \$500,000 (including extension work).

OFFICIALS.

President.—Robert Judson Aley, Ph.D., LL.D.

Dean of the University.—J. Norris Hart, Sc.D.

Dean of the College of Arts and Sciences.—J. Stacy Stevens, LL.D.

Dean of the College of Agriculture.—L. S. Merrill, M.D.

Dean of the College of Technology.—H. Sherburne Boardman, C.E.

Director of the Agricultural Experiment Station.—C. Dayton Woods, Sc.D.

Degrees conferred.—B.A., B.Sc., B.S., LL.B., M.A., M.S., LL.M., C., E.E., Ch.E., M.E.

PROFESSORS.

FACULTY OF ARTS.

Professors :

- M. A. Chrysler, *Biology*.
 Irving H. Blake, "
 Charles H. Batchelder, *Biology*.
 John H. Ashworth, *Economics and Sociology*.
 E. C. Bancroft, *Economics and Sociology*.
 J. Howard Toelle, *Economics and Sociology*.
 Ava Chadbourne, *Education*.
 H. M. Ellis, *English*.
 Guy Thompson, *English*.
 J. B. Segall, *French*.
 F. J. Kueny, "
 Robert R. Drummond, *German*.
 J. H. Huddilston, *Ancient History and Art*.
 Caroline Colvin, *History*.
 A. A. Whitmore, "
 G. D. Chase, *Latin*.
 J. N. Hart, *Mathematics*.
 H. R. Willard, *Mathematics*.
 M. O. Tripp, *Mathematics*.
 Capt. L. R. James, *Military*.
 A. W. Sprague, *Music*.
 Wallace Craig, *Philosophy*.
 Geo. L. Rider, *Physical Education*.
 Willis W. Harriman, *Public Speaking*.
 J. S. Stevens, *Physics*.
 A. L. Fitch, *Physics*.
 Arthur G. Hisdreth, *Physics*.
 Roy M. Peterson, *Spanish and Italian*.
 23 Instructors.

FACULTY OF AGRICULTURE.

Professors :

- Herbert Hiss, *Agricultural Education*.
 Roy F. Thomas, "
 George E. Simmons, *Agronomy*.
 Ben C. Helmick, "
 L. S. Corbett, *Animal Industry*.
 L. M. Dorsey, "
 F. L. Russell, *Bacteriology and Veterinary Science*.
 H. W. Smith, *Bacteriology and Veterinary Science*.
 L. H. Merrill, *Biological and Agricultural Chemistry*.

Post-Graduate Courses.—Post-Graduate students accepted for work leading to the degrees of M.A., M.S., LL.M.

Libraries.—The University Libraries contain about 65,000 volumes, of which about 55,000 are in the General Library, 4,700 in the Agricultural Experiment Station Library, and 5,500 in the Law Library. Miss E. G. Wigmore, A.B. (*in charge*); Miss H. M. De Rhodes, B.A. (*Assistant*); Miss M. Moore (*Assistant*).

Museum of Natural History.—Mintin Asbury Chrysler, *Curator of the Botanical and Zoological Collections*. Lueius Herbert Merrill, *Curator of the Geological Collections*.

Societies.—American Chemical Society.

American Institute of Electrical Engineers.

American Society of Mechanical Engineers.

Alpha Chi Sigma.

Alpha Zeta.

Phi Kappa Phi.

Tau Beta Pi.

Professors—Continued :

- John M. Briscoe, *Forstry*.
 Frances R. Freeman, *Home Economics*.
 Dorothea Beach, "
 Laura Anderson, "
 H. P. Sweetser, *Horticulture*.
 Richard T. Muller, "
 4 Instructors.

FACULTY OF TECHNOLOGY.

Professors :

- C. A. Brautleecht, *Chemistry*.
 B. F. Brann, "
 Edward F. Rathjen, "
 H. S. Boardman, *Civil Engineering*.
 E. H. Sprague, "
 A. C. Lyon, "
 H. W. Leavitt, "
 W. E. Barrows, *Electrical Engineering*.
 A. S. Hill, "
 W. J. Sweetser, *Mechanical Engineering*.
 B. C. Kent, *Mechanical Engineering*.
 C. P. Weston, *Mechanics and Drawing*.
 A. L. Grover, "
 C. M. Curl, "
 13 Instructors.

FACULTY OF LAW.

Professors :

- C. W. Peabody, *Law*.
 Stacy C. Lanpher, *Law*.
 7 Instructors and Lecturers.

FACULTY OF INVESTIGATION
MAINE AGRICULTURAL EXP. STATION

Director.—C. D. Woods.

Chemist.—J. M. Bartlett.

Assistant Pathologist.—D. Folsom.

Assistant Biologist.—J. W. Gowen.

Secl. Analyst.—R. L. Hammond.

Plant Pathologist.—W. J. Morse.

Entomologist.—Miss E. M. Patch.

Col. Biologist.—R. Pearl.

Assistant Chemist.—E. R. Tobey.

Assistant Chemist.—C. H. White.

Assistant Biologist.—J. Zimm.

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—C. D. Woods.

OTAGO UNIVERSITY. *See* DUNEDIN.

OTTAWA (Canada).

THE ROYAL SOCIETY OF CANADA, Ottawa, Canada. (1882.)

Founder: His Grace the Duke of Argyll, K.T., etc.
(When Governor-General of Canada in 1882.)

OFFICERS FOR 1919-1920.

Honorary Patron.—His Excellency The Duke of Devonshire, K.G., etc., etc.

President.—R. F. Ruttan, M.D., C.M., D.Sc.

Vice-President.—A. P. Coleman, M.A., Ph.D., F.R.S.

Hon. Secretary.—D. C. Scott.

Hon. Treasurer.—(Vacant.)

Hon. Librarian.—D. B. Dowling, B.Sc.

OFFICERS OF SECTIONS.

Section I.—Littérature Française, Histoire, Archéologie, Sociologie, Economie, Politique et Sujets Connèxes.

President.—V. Morin.

Vice-President.—E. Myrand.

Secrétaire.—C. M. Barbeau.

Section II.—English Literature, History, Archeology, Sociology, Political Economy, and Allied Subjects.

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B.Mus. - -	Mauve silk, lined white fur.
D.C.L. - -	Scarlet cloth, lined crimson silk.
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 Indian Institute. *Librarian* : J. Morrison, Hon. M.A.

Museums, etc.—

Ashmolean Museum. *Keeper* : D. Hogarth, M.A., D.Litt. *Keeper of Art Galleries* : C. F. Bell, M.A.
 University Museum. *Secretary* : H. L. Bowman, M.A., D.Sc.
 Botanic Garden. *Curator of Herbarium* : G. C. Druce, Hon. M.A.
 University Observatory. *Director* : H. H. Turner, M.A., D.Sc.

AFFILIATED INSTITUTIONS.

St. David's College, Lampeter.	Dalhousie University, Halifax, Nova Scotia.
University College, Nottingham.	Mt. Allison College, Sackville, New Brunswick.
University College, Reading.	Acadia University, Wolfville, Nova Scotia.
Hartley University College, Southampton.	The University of Manitoba, Winnipeg.
Exeter Diocesan Training College.	The University of Queen's College, Kingston, Ontario.
Royal Albert Memorial University College, Exeter.	Laval University, Quebec.
The University of the Cape of Good Hope.	McMaster University, Toronto.
" " Sydney.	The University of St. Joseph's College, St. Joseph, New Brunswick.
" " Calcutta.	The University of Bishop's College, Lennoxville, Canada.
" " the Punjab.	The University of Ottawa.
" " Bombay.	" " Saskatchewan.
" " Adelaide.	" " Queensland.
" " Madras.	" " Alberta.
" " Melbourne.	The University of St. Francis Xavier's College, Nova Scotia.
" " New Zealand.	The University of Western Australia.
" " Allahabad.	
" " Toronto.	
McGill University, Montreal.	
The University of Tasmania.	
" " New Brunswick.	
" " Malta.	
" " King's College, Windsor, Nova Scotia.	

Recognized Societies.—

Lady Margaret Hall (1878). *Principal* : Miss H. Jex-Blake.
 Somerville College (1879). *Principal* : Miss E. Penrose, M.A.
 St. Hugh's College (1886). *Principal* : Miss E. F. Jourdain.
 St. Hilda's Hall (1893). *Principal* : Miss G. M. E. Burrows.
 Society of Oxford Home Students. *Principal* : Mrs. A. H. Johnson.

MANCHESTER COLLEGE, Oxford. (1786.)

Manchester College is non-sectarian, and no profession or particular doctrine is required either from teachers or students. Theology is studied as a science, and complete liberty of thought is regarded as one of the fundamental principles of the College.

Terms : As Oxford University.

OFFICIAL.

Principal.—L. P. Jacks, M.A., D.D., LL.D.

PROFESSORS.

Rev. D. C. Simpson, <i>Old Testament</i>.	|	Lachlan Macrae, <i>History of Doctrine</i> .
Rev. H. Gow, <i>New Testament</i> .		F. Watson, <i>Philosophy of Education</i> .
B. W. Bacon " "		

Library.—Devoted mainly to Philosophy and Theology. *Librarian* : Lachlan Macrae.

MANSFIELD COLLEGE, Oxford. (1886.)

A Theological College, under Congregational control, open to theological students of all churches. The normal course is three years. Only graduates of recognized Universities are admitted.

Terms : As Oxford University.

Students : 35.

OFFICIALS.

Principal.—Rev. W. B. Selbie, D.D.

Bursar.—N. H. Smith, M.A.

Chaplain.—Rev. N. Micklem.

PROFESSORS.

Rev. W. B. Selbie, <i>Theology</i>.	|	Rev. C. H. Dodd, <i>New Testament and Exegesis</i> .
Rev. J. B. Bartlett, <i>Church History</i> .		
Rev. G. B. Gray, <i>Hebrew and Old Testament</i> .		

PACIFIC, COLLEGE OF THE. See SAN JOSÉ.

PASADENA (California).

MOUNT WILSON OBSERVATORY of the Carnegie Institution of Washington.

Address: Pasadena, California.

RESEARCH STAFF.

Director.—George Ellery Hale.

Assistant Director.—Walter S. Adams.

Secretary.—Alfred H. Joy.

Solar Physics : George E. Hale, Charles E. St. John, Frederick H. Seares, Ferdinand Ellerman, Seth B. Nicholson, Adriaan van Maanen, Frederick S. Brackett.

Stellar Spectroscopy : Walter S. Adams, Alfred H. Joy, John C. Duncan, Gustaf Strömberg, Paul W. Merrill, R. F. Sanford.

Stellar Photometry : Frederick H. Seares, Harlow Shapley.

Nebulae and Star Clusters : Harlow Shapley, Francis G. Pease, John C. Duncan, Adriaan van Maanen, Edwin P. Hubble.

Trigonometrical Parallaxes : Adriaan van Maanen.

Physical Laboratory : Arthur S. King, Superintendent; J. A. Anderson, Harold D. Babcock, Charles E. St. John, Paul W. Merrill.

Research Associates : Professor J. C. Kapteyn of the University of Groningen; Professor A. A. Michelson of the University of Chicago.

Computing Division : Frederick H. Seares, Superintendent; Louise Ware, Cora G. Burwell, Bertha M. Shumway, Coral Wolfe, Myrtle L. Richmond, Addie L. Miller, Mary C. Joyner, Ada M. Brayton, G. Mary Ritchie, Lois M. Keener, Dorothy Hubbard.

6 Volunteer and Part Time Assistants, 4 Assistant Observers.

PATIALA.**MOHINDRA COLLEGE**, Patiala. (1875.)

Affiliated to the University of the Punjab, Lahore.

Students : 335.

OFFICIAL.

Principal.—Man Mohan, M.A.

PROFESSORS.

B. Ram, <i>Mathematics</i> .	Kishori Lal, <i>History</i> .
K. K. Mukerjee, <i>Philosophy</i> .	D. Dass, <i>Mathematics</i> .
A. K. Sharma, <i>Philosophy</i> .	M. R. Kohli, <i>Economics</i> .
A. T. Ramaniya Acharya, <i>English</i> .	3 Lecturers for Oriental Languages.

Post-Graduate Courses.—In Mathematics.**Libraries**.—The College Library contains about 4,000 books. *Librarian* : A. K. Sherma.**PATNA (India).****BEHAR NATIONAL COLLEGE**, Patna, India. (1889.)*Terms* : One a year.*Students* : 840.

OFFICIAL.

Principal.—D. N. Sen, M.A., I.E.S.

PROFESSORS.

G. P. Hazari, <i>Philosophy</i> .	D. K. Bhattacharyya, <i>Physics</i> .
L. K. Ghosh, <i>Mathematics</i> .	J. Chatterjee, <i>Physics</i> .
M. Haque, <i>English</i> .	S. G. Taqi, <i>Persian and Arabic</i> .
C. Mittra	A. Thakur, <i>Sanskrit</i> .
H. C. R. Chaudhary, <i>History</i> .	16 Lecturers, 5 Assistants.
B. K. Chaudhary, <i>Chemistry</i> .	

PENNSYLVANIA STATE COLLEGE. See **STATE COLLEGE**.**PERADENIYA ROYAL BOTANIC GARDENS**. No particulars received.**PERAK MUSEUM**. See **TAIPING**.**PERTH (Western Australia).****UNIVERSITY OF WESTERN AUSTRALIA**, Perth, W. Australia. (1911.)*Terms* : Three per year.*Students* : 406.*Budget* (1920):

Receipts	..	..	..	..	..	£17,245.
Expenditure	..	..	..	..	..	£18,083.

OFFICIALS.

Visitor.—The Governor of the State of W. Australia, His Excellency the Rt. Hon.

Sir W. G. Ellison-Macartney, P.C., K.C.M.G.

Chancellor.—His Grace the Most Rev. C. O. L. Riley, M.A., D.D., V.D.*Pro-Chancellor*.—C. Andrews, M.A.*Warden of Convocation*.—J. S. Battye, B.A., LL.B.*Vice-Chancellor*.—J. W. Paterson, B.Sc., Ph.D.**Degrees conferred**.—B.A., M.A., B.Sc., D.Sc., B.E., M.E., LL.B., LL.D., Mus.Bac., Mus.Doc., M.B., M.D., B.S.**Hoods**.—Arts, royal blue; Science, emerald green; Engineering, gold; Law, royal purple; Music, peacock blue; Medicine, ruby red; Surgery, ruby red.

PROFESSORS.

Professors :

W. J. Dakin, *Biology*.
 W. L. F. Murdoch, *English*.
 J. W. Paterson, *Agriculture*.
 A. D. Ross, *Mathematics and Physics*.
 E. O. G. Shann, *History and Economics*.
 H. E. Whitfeld, *Mining and Engineering*.
 N. T. M. Wilsmore, *Chemistry*.
 W. G. Woolnough, *Geology*.

Lecturers :

G. Wood, *Latin and Greek*.
 M. Aourousseau, *Geology*.
 A. Cayzer, *Biology*.
 R. C. Gray, *Mathematics and Physics*.
 E. J. Wilson, *French and German*.
 G. Tattersall, *Chemistry*.

Lecturers—Continued :

H. W. Sanders, *Mathematics and Physics*.
 A. Tomlinson, *Engineering*.

Associate Lecturers :

P. H. Fraenkel, *Electrical Engineering*.
 W. J. Rooney, *Education*.
 L. D'Ery (Miss), *French*.
 G. M. Nunn, *Surveying*.
 E. A. Le Souef, *Veterinary Science*.
 Rev. G. N. Dods, *Logic and Ancient Philosophy*.
 Rev. F. E. Oxer, *Psychology*.
 R. Bleazby, *Railway Engineering*.
 H. Beasley, *Architecture*.
 W. McLagan, *Mechanical Drawing*.

Post-Graduate Courses.—Leading to M.A., D.Litt., M.Sc., D.Sc., M.E.

Librarian : A. Cayzer, B.Sc.

AFFILIATED INSTITUTIONS.

Perth Technical School.
 W. Australia School of Mines, Kalgoorlie.

PESHAWAR (Punjab).

EDWARDES COLLEGE, Peshawar, Punjab. (1855.)

Affiliated to the University of the Punjab, Lahore.

Students : 60.

OFFICIALS.

Principal.—Canon J. A. Wood, M.A.
 Officiating Principal.—Rev. A. C. Clarke, M.A.

PROFESSORS.

J. A. Wood, *English*.
 A. C. Clarke
 H. M. Husain ,,
 T. Bomford, *History*.
 Jai Dayal, *Mathematics*.
 Ghulam Husain, *History*.

Ahmal Husain, *Philosophy*.
 M. A. Aziz, *Arabic and Persian*.
 M. A. M. Khan ,,
 Pt. N. Lal, *Sanskrit*.
 G. Thomas, *English History*.

PHILADELPHIA (Pennsylvania).

UNIVERSITY OF PENNSYLVANIA. No particulars received.

THE WISTAR INSTITUTE OF ANATOMY AND BIOLOGY, Philadelphia, Pa. (1808.)

Devoted to researches in Anatomy, with special reference to Neurology, Genetics and Bio-Chemistry.

Terms : Open every day in the year. Students : No undergraduates admitted.

OFFICIAL.

Director.—Milton J. Greenman.

PROFESSORS.

Professor :

H. H. Donaldson, *Neurology*.

Assistant Professors :

H. D. King, *Embryology*.
 S. Hatai, *Neurology*.

1 Instructor, 3 Fellows, and 1 Research Assistant.

Librarian : C. N. Perine.

In charge of publications : C. B. Vaux.

Publishes the following periodicals:

Journal of Morphology.
The Journal of Comparative Neurology.
The American Journal of Anatomy.
The Anatomical Record.
The Journal of Experimental Zoology.
The American Anatomical Memoirs.

PHILADELPHIA COLLEGE OF PHARMACY, 145 North 10th Street, Philadelphia, Pa.
(1821.)

The Philadelphia College of Pharmacy is the oldest institution of its kind in the United States.

It is one of the few independent Colleges of Pharmacy in the United States. Many other Schools of Pharmacy are connected with State Universities.

It is a Co-educational School, a large number of women are numbered among its graduates.

Terms : Two per year.

Students : 500.

OFFICIALS.

President.—H. B. French.
First Vice-President.—R. V. Mattison.
Second Vice-President.—J. L. Lemberger.
Corresponding Secretary.—A. W. Miller.
Recording Secretary.—C. A. Weidmann.

Degrees conferred.—Ph.G., B.Sc., Phar.B., Phar.D., P.C.

PROFESSORS.

Professors :

C. H. La Wall (Dean), *Theory and Practice of Pharmacy*.
E. F. Cook, *Operative Pharmacy*.
F. X. Moerk, *Analytical Chemistry*.
F. P. Stroup, *General Chemistry*.
J. W. Sturner, *Pharmaceutical Chemistry*.

Professors—Continued.

H. W. Youngken, *Botany and Pharmacology*.
C. B. Lowe, *Materia Medica*.

Acting Professor :

L. Gershenfeld, *Bacteriology and Hygiene*.

8 Instructors, 3 Lecturers, 2 Assistants.

Post-Graduate Courses.—Leading to B.Sc., Phar.B., P.C., and Phar.D.

Library.—About 15,000 volumes. *Librarian* : Miss Bonsall.

Publication.—American Journal of Pharmacy.

THE DROPSIE COLLEGE FOR HEBREW AND COGNATE LEARNING,
S.E. Cor. Broad and York Streets, Philadelphia, Pa. (1908.)

Terms : Four per year. *Students* : Graduates and Specials, 38.
Budget (May, 1918, to May, 1919): \$40,140.00.

OFFICIALS.

President of the College.—Dr. C. Adler.
Vice-President.—Hon. M. Sulzberger.
Secretary of the Board of Governors.—E. Lederer.
Secretary of the Faculty.—Prof. M. L. Margolis.
Treasurer of the College.—Horace Stern.

Degree conferred.—Ph.D.; Colour, blue and gold.

2 Professors and 5 Instructors.

Library.—19,492 volumes. *Assistant Librarian* : Dr. J. Reider.

Publications.—Jewish Quarterly Review.

AMERICAN PHILOSOPHICAL SOCIETY, Independence Square, Philadelphia, Pa.
(1727.)

The oldest learned society in America. Founded by Benjamin Franklin. Membership is by election. Fifteen American members elected annually.

OFFICERS.

President.—W. B. Scott, D.Sc., LL.D., of Princeton, New Jersey.

Vice-Presidents.—

G. E. Hale, Sc.D., Ph.D., LL.D., of Pasadena, California.

A. A. Noyes, Ph.D., Sc.D., LL.D., of Cambridge, Massachusetts.

H. L. Carson, M.A., LL.D., of Philadelphia.

Secretaries.—

I. Minis Hays, A.M., M.D., of Philadelphia.

A. W. Goodspeed, A.B., Ph.D., of Philadelphia.

H. F. Keller, Nat.Ph.D., of Philadelphia.

B. M. Davis, A.M., Ph.D., of Philadelphia.

Treasurer.—H. La Barre Jayne, A.B., of Philadelphia.

Meetings.—Ordinary meetings are held monthly from October to May (inclusive). The Annual General Meeting is held in April.

Library.—70,000 volumes relating to the sciences.

Publications.—Transactions, 4to., Volumes I. to VI. New Series, Volumes I. to XXII. Proceedings, Svo., Volumes I. to LVIII.

ACADEMY OF NATURAL SCIENCES, Logan Square, Philadelphia, Pa. (1812.)

The oldest Scientific Society in America.

Recording Secretary and Librarian.—E. J. Nolan.

Corresponding Secretary.—J. P. Moore.

Publications.—Journal, Proceedings.

THE ZOOLOGICAL SOCIETY OF PHILADELPHIA, Fairmount Park, Philadelphia, Pa. (1812.)

Members, 1,400.

Income .. \$118,532.37 Expenditure .. \$118,663.94

OFFICIALS.

President.—C. B. Penrose, M.D.

Vice-President.—C. C. Febiger.

Secretary.—W. B. Cadwalder, M.D.

Treasurer.—C. S. W. Packard.

Superintendent of the Garden.—C. Emerson Brown.

Pathologist.—H. Fox, M.D., and 2 Assistants.

Publishes an Annual Report.

THE FRANKLIN INSTITUTE OF THE STATE OF PENNSYLVANIA,

15, South Seventh Street, Philadelphia, Pa.

The Franklin Institute of the State of Pennsylvania for the Promotion of the Mechanic Arts was organized in the year 1824, to meet a demand in America for an institution similar to that founded by Count Rumford in London in 1799. The founders intended it not only as an appropriate memorial to the name of Franklin, but as a means of continuing for all time a work which throughout his long life he perhaps regarded as his best, namely, the discovery of physical and natural laws and their application to increase the well-being and comfort of mankind. Membership, 1,500.

President.—W. Clark.

Vice-Presidents.—H. Howson, Coleman Sellers, jr.

Secretary.—E. B. Owens.

Weekly lectures on scientific and technical subjects are given throughout the winter season; the Journal of the Franklin Institute has been published monthly since 1826; monthly meetings are held at which recent discoveries in physical science and important engineering achievements are discussed, and major inventions described. The membership is divided into the following sections, each group devoting its attention to the branch of technology for which it is organized: Chemistry, Mining, Metallurgy, Astronomy, Physics, and Engineering.

Library.—73,511 volumes, 15,143 pamphlets, 2,289 maps and charts, and 1,336 photographs. Complete sets of over 600 of the leading scientific and technical publications of the world. *Librarian:* A. Rigling. *Microsoft* ®

THE PHILADELPHIA MUSEUMS, Commercial Museum, 34th Street below Spruce,
Philadelphia, Pa. (1894.)
With Foreign Trade Bureau.

Budget (1918):

Total Income	\$175,168.15.
Total Expenditure	171,685.74.

OFFICIALS.*Director.*—W. P. Wilson, Sc.D.*Secretary.*—W. H. Schoff, A.M.*Curator.*—C. R. Toothaker.*Chief of Foreign Trade Bureau.*—D. Bartlett.**Library.**—40,727 books and 70,149 pamphlets. *Librarian:* J. J. Macfarlane, A.M.**OFFICERS OF BOARD OF TRUSTEES.***President.*—S. L. Wright.*Vice-President.*—H. B. French.*Treasurer.*—D. Baugh.

The Commercial Museum comprises collections illustrating the production and commerce of all nations. A Bureau of Information collates all available data regarding the subject of foreign trade and distributes upon application reports tending to the extension of American trade abroad.

A free commercial technical library is also maintained by the Board, bearing particularly on the subjects of international trade, production, transportation, banking, economics, and municipal affairs. It also contains trade directories of the leading cities and countries of the world, including all cities in the United States with a population of 100,000 or over, and in their special lines possessing more reference than any other known collection.

There are also extensive exhibits, illustrating the ethnology and productions of Mexico, the Central and South American Republics, West Indies, East and West Africa, Madagascar, India, and Ceylon, the Straits Settlements, Indo-China, Siam, Siberia and Oceania.

PIETERMARITZBURG (South Africa).**NATAL UNIVERSITY COLLEGE**, Pietermaritzburg, Natal. (1910.)

A Constituent College of the University of South Africa, along with the colleges: Rhodes, Grahamstown; Grey, Bloemfontein; Huguenot, Wellington; Transvaal, Pretoria; and School of Mines and Technology, Johannesburg.

Terms: Two per year.*Students:* 120.*Budget:* Grants from Government of the Union of South Africa and local revenue (mainly fees.)**Degrees and Hoods.**—As University of South Africa.**PROFESSORS.**A. Patrie, *Classics.*O. Waterhouse, *English and Philosophy.*G. Besselaar, *Modern Languages.*W. N. Roseveare, *Mathematics.*R. B. Denison, *Chemistry.*J. W. Bews, *Botany and Geology.*E. Warren, *Zoology.*

5 Lecturers.

Post-Graduate Courses.—M.A. and M.Sc., for which degrees a thesis may be presented as part of the examination.

Library.—College Library. *Librarian:* A. F. Hattersley, M.A.**PITTSBURGH (Pennsylvania).****UNIVERSITY OF PITTSBURGH**, Pittsburgh, Pa. (1787.)*Terms:* Two per year.*Students (1919-1920):* 4,756.

Total Expenditure (1917, 1918); \$1,045,988.76.

OFFICERS.

President, Board of Trustees.—G. H. Clapp.
Chancellor.—S. B. McCormick.
Secretary.—S. B. Linhart.
Registrar.—J. G. Quick.
Librarian.—B. A. Swope.

PROFESSORS.

THE COLLEGE.

Professors :

J. C. Fettermann (Dean), *Biology*.
 F. Schlesinger, *Astronomy*.
 O. E. Jennings, *Botany*.
 L. R. Gibbs, *English Language and Literature*.
 S. B. Linhart, *Ethics and History of Religion*.
 R. H. Johnson, *Geology*.
 J. F. L. Raschen, *German Language and Literature*.
 H. S. Scribner, *Greek Language and Literature*.
 H. J. Webster, *History*. [ture.
 E. T. Sage, *Latin Language and Literature*.
 J. M. Mecklin, *Philosophy*.
 A. E. Ortmann, *Physical Geography*.
 C. N. Wenrich, *Physics*.
 J. H. White, *Psychology*.
 F. H. Lane, *Public Speaking*.
 W. H. Shelton, *Romance Languages and Literature*.
 L. E. Griffin, *Zoology*.
 W. P. Webber, *Mathematics*.
 F. A. Foraker, "

Assistant Professors :

A. B. Wallgren, *Biology*.
 W. H. Emig, *Botany*.
 J. K. Miller, *English*.
 J. Valente, "
 A. P. James, *History*.
 G. G. Becknell, *Physics*.
 W. B. Pietenpol, "
 J. C. Coulson, "
 A. M. Snyder, *Psychology*.
 R. H. Johnson, *Romance Languages*.
 2 Lecturers, 27 Instructors.

THE SCHOOL OF ECONOMICS.

Professors :

A. B. Wright (Acting Dean), *Political Science*.
 C. P. Reitell, *Accounting*.
 G. P. Eckels, "
 F. N. Thorpe, *Political Science and Constitutional Law*.
 F. D. Tyson, *Sociology*.

Assistant Professors :

H. C. Kidd, *Economics*.
 L. K. Manley, *Economics*.
 M. Jones, *Finance*.
 C. Arnold, *Journalism*.
 3 Instructors.

THE SCHOOL OF EDUCATION.

Professors :

W. G. Chambers (Dean), *Education*.
 M. Smith, *Childhood Education*.
 J. H. Kelley, *Education*.
 G. E. Jones, "
 S. B. Davis, "
 G. C. Basset, *Educational Psychology*.
 W. H. Klar, *Fine and Industrial Arts*.
 A. M. Jones, *Household Arts*.
 W. Earhart, *Music*.
 T. W. Burckhalter, *Physical Education*.
 T. J. Kirby, *Secondary Education*.
 A. S. Hurrell, *Vocational Education*.
 M. Shepard (Miss), *Physical Education*.

Assistant Professors :

A. M. Carmalt (Mrs.), *Elementary Education*.
 M. E. Stover (Miss), *Household Arts*.
 F. C. Clayter, *Industrial Arts*.
 K. Foulke (Miss), *Secondary Education*.
 3 Lecturers, 28 Instructors.

THE SCHOOL OF ENGINEERING.

Professors:

F. L. Bishop (Dean), *Physics*.
 J. H. Smith, *Civil Engineering*.
 L. H. Harris, *Electrical Engineering*.
 H. E. Dyche, "
 R. T. Stewart, *Mechanical Engineering*.
 L. E. Endsley, *Railway Mechanical Engineering*.
 M. Knowles, *Sanitary Engineering*.
 G. W. Case, "
 J. S. Lambie, *Civil Engineering*.
 L. W. McIntyre, "
 J. Weber, *Mechanical Engineering*.

Assistant Professors :

L. C. McCandliss, *Civil Engineering*.
 G. I. Mitchell, *Electrical Engineering*.
 W. W. Boyle, *Mechanical Engineering*.
 5 Instructors.

SCHOOL OF MINES.

Professors :

H. B. Meller (Dean), *Mining*.
 H. Leighton, *Economic Geology*.
 R. H. Johnson, *Geology, Oil, and Gas Production*.
 S. L. Goodale, *Metallurgy*.
 R. E. Somers, *Oil and Gas Production*.
 H. C. Ray, *Ore Dressing*.

Associate Professor :

R. M. Black, *Mining*.
 1 Lecturer, 2 Instructors.

THE SCHOOL OF CHEMISTRY.**Professors :**

- R. F. Bacon (Dean), *Chemistry*.
A. Silverman, *Chemistry*.

Assistant Professors :

- L. Jenks, *Analytical Chemistry*.
A. Lowy, *Organic Chemistry*.
G. Stegeman, *Physical Chemistry*.
5 Instructors.

THE GRADUATE SCHOOL.

Acting Dean.—R. F. Bacon.

Professors :

- R. Retzer, *Anatomy*.
F. Schlesinger, *Astronomy*.
J. C. Fettermann, *Biology*.
O. E. Jennings, *Botany*.
H. Leighton, *Economic Geology*.
W. G. Chambers, *Education*.
L. R. Gibbs, *English Language and Literature*.
H. C. Kidd, *Finance and Economics*.
R. H. Johnson, *Geology*.
J. F. L. Raschen, *German Language and Literature*.
H. S. Scribner, *Greek Language and Literature*.
H. J. Webster, *History*.
A. Silvermann, *Inorganic Chemistry*.
E. T. Sage, *Latin Language and Literature*.
S. L. Goodale, *Metallurgy*.
H. B. Meller, *Mining*.
H. C. Ray, *Ore Dressing*.
E. H. Balz, *Organic Chemistry*.
A. E. Ortman, *Paleontology and Geography*.
O. Klotz, *Pathology and Bacteriology*.
J. M. Mecklin, *Philosophy*.
C. N. Wenrich, *Physics*. [macology.
C. C. Guthrie, *Physiology and Pharmacy*.
F. N. Thorpe, *Political Science*.
J. H. White, *Psychology*.
W. O. Farnsworth, *Romance Languages and Literatures*.
T. J. Kirby, *Secondary Education*.
F. D. Tyson, *Sociology*.
L. E. Griffin, *Zoology*. [tion.
S. B. Davis, *Educational Administration*.

Assistant Professors :

- A. B. Wallgren, *Biology*.
E. H. Emig, *Biology*.
J. K. Miller, *English*.
F. A. Foraker, *Mathematics*.
W. P. Webber, "
A. M. Snyder, *Psychology*.
3 Instructors.

THE SCHOOL OF MEDICINE.**Professors :**

- R. R. Huggins (Dean), *Gynecology*.
D. Hooker, *Anatomy*.

Professors—Continued :

- W. L. Holman, *Bacteriology*.
C. Jackson, *Laryngology and Rhinology*.
J. D. Heard, *Medicine*.
T. M. T. McKennan, *Neurology*.
W. W. Blair, *Ophthalmology*.
D. Silver, *Orthopedic Surgery*.
E. W. Day, *Otology*.
O. Klotz, *Pathology*.
O. M. Edwards, *Pediatrics*.
T. J. Elterich, "
C. C. Guthrie, *Physiology and Pharmacology*.
W. K. Walker, *Psychiatry*.
G. C. Johnston, *Röntgenology*.
J. J. Buchanan, *Surgery*.
R. T. Miller, *Surgery*.
C. C. Macklin, *Anatomy*.
R. R. Huggins, *Gynecology*.
E. J. Patterson, *Laryngology and Rhinology*.
J. A. Lichty, *Medicine*.
B. A. Cohoe, "
J. I. Johnston, "
T. Diller, *Neurology*.
E. T. W. Way, *Otology*.
E. E. Mayer, *Psychiatry*.
G. L. Hays, *Surgery*.

Assistant Professors :

- H. N. Gould, *Anatomy*.
E. A. Weiss, *Gynecology*.
H. N. Gould, *Histology and Embryology*.
J. H. McCready, *Laryngology and Rhinology*.
I. J. Moyer, *Medicine*.
H. G. Schleiter, "
T. G. Simonton, "
C. H. Henninger, *Neurology*.
S. S. Smith, *Ophthalmology*.
J. O. Wallace, *Orthopedic Surgery*.
J. R. Simpson, *Otology*.
W. W. G. MacLachlan, *Pathology*.
H. T. Price, *Pediatrics*.
A. Rohde, *Physiological Chemistry*.
E. W. Meredith, *Surgery*.
P. R. Sieber, "
J. C. Burt, "
W. O. Sherman, "
3 Lecturers, 48 Instructors.

THE SCHOOL OF LAW.**Professors :**

- Hon. J. D. Shafer (Dean), *Real Property and Legal History*.
R. H. Hawkins, *Common Pleas Practice, Equity Pleading and Practice, Bankruptcy and Real Estates*.
A. M. Thompson, *Constitutional Law and Corporations*.
J. A. Crane, *Contracts, Agency, Conflict of Laws, Partnership and Insurance*.

Professors—Continued :

- R. A. Applegate, *Criminal Law*.
 R. W. Martin, *Criminal Law and Procedure*.
 E. W. Marshall, *Equity and Real Property*.
 J. C. Gray, *Evidence and Torts*.
 E. Englert, *History of Procedure, History of Property and Damages*.
 Hon. J. R. Macfarlane, *Negotiable Instruments*.
 Hon. J. J. Miller, *Orphan's Court Practice, Wills and Decedents' Estates, Legal Ethics*.
 G. J. Thompson, *Public Utilities*.
 J. G. Houston, *Real Property and Contracts, and Domestic Relations*.
 J. G. Buchanan, *Restraint of Trade*.
 J. T. Duff, *Torts and Bailments*.
 E. Englert, *Common Law, Pleading*.
 J. S. Christy, *Evidence*.
 1 Instructor.

THE SCHOOL OF DENTISTRY.

Professors :

- H. E. Friesell (Dean), *Operative Dentistry*.
 S. L. McCurdy, *Anatomy, Oral and General Surgery*.
 J. S. Ashbrook, *Dental Anatomy, Dental Medicine, and Comparative Anatomy*.
 W. L. Fickes, *Dental Ceramics, Dental History, and Oral Hygiene*.
 O. L. Hertig, *Dental Pathology, and Therapeutics and Operative Clinician*.
 C. R. Jones, *General Pathology, Materia Medica, and Therapeutics*.
 F. C. Friesell, *Histology, and Bacteriology and Biology*.
 J. F. Biddle, *Orthodontia and Radiography*.
 O. M. Ott, *Physics, and Technical Drawing*.
 A. F. Judd, *Physics, Chemistry, and Metallurgy*.
 C. O. Booth, *Prosthetics and Economics*.

Assistant Professors :

- W. H. Wright, *Anatomy and Prosthetics*.
 L. W. Ohl, *Anesthesia and Extracting*.
 W. A. Dunn, *Chemistry and Metallurgy*.
 A. Lewis, *Crown and Bridge*.
 2 Lecturers, 25 Demonstrators.

THE WESTERN THEOLOGICAL SEMINARY, North Side, Pittsburgh, Pa. (1825.)

The Western Theological Seminary is a theological college of the Presbyterian Church in the U.S.A.

Budget: Expenditure, \$61,327.15.

Students : 48,

President.—Rev. J. A. Kelso, Ph.D., D.D.

Univ Calif - Digitized by eGangotri Degree conferred—B.D.

THE SCHOOL OF PHARMACY.

Professors :

- J. A. Koch (Dean), *Physics and Chemistry*.
 L. Saalbach, *Botany*.
 A. F. Judd, *Botany and Materia Medica*.
 F. T. Aschman, *Chemistry*.
 L. K. Darbaker, *Pharmacognosy and Bacteriology*.
 J. H. Beal (Emeritus), *Pharmacy*.
 F. A. Rhodes, *Physiology*.

Associate Professor :

- F. J. Blumenschein, *Pharmacy*.
 2 Instructors.

THE SCHOOL OF ASTRONOMY.

Allegheny Observatory. (1859.)

Director.—F. Schlesinger.

Assistant Director.—F. C. Jordan,

Assistants.—F. Henroteau, R. Trumpler.

DEPARTMENT OF UNIVERSITY EXTENSION.

Director :

J. H. Kelley.

Heads of Departments :

- H. E. Cooper, Extra Mural Instruction Department.
 N. McLeod, Public Service Department.
 L. Glaser, Secretary, Package Library Bureau.
 P. Syling, Secretary, Teachers' Appointment Bureau.
 Thysa W. Amos, Dean of Women.

DEPARTMENT OF HEALTH.

Director.—E. M. Frost.

DEPARTMENT OF PHYSICAL EDUCATION AND ATHLETICS.

Professors :

- C. S. Miller (Director), *Physical Education*.
 H. H. Provin, *Physical Education*.

Associate Professor :

- M. Shephard, *Physical Education*.
 2 Instructors.

DEPARTMENT OF MILITARY SCIENCE AND TACTICS.

Professor :

R. M. Mitchell (Director).

Assistant Professors :

- L. W. Lyon.
 R. A. Parsons.
 D. B. Falk.

FACULTY.

Professors :

- Rev. J. A. Kelso, *Hebrew and Old Testament Literature.*
- Rev. R. Christie, *Apologetics.*
- Rev. D. S. Schaff, *Ecclesiastical History and History of Doctrine.*
- Rev. D. R. Brعد, *Sacred Rhetoric and Elocution.*

Post-Graduate Courses in Theology.

Librarian : Rev. D. E. Culley, Ph.D.

Professors—Continued :

- Rev. W. R. Farmer, *New Testament Literature and Exegesis.*
- Rev. J. H. Snowden, *Systematic Theology.*

Assistant Professor :

- Rev. D. E. Culley, *Hebrew.*
- 3 Instructors.

THE NATIONAL SOCIETY FOR THE STUDY OF EDUCATION, Pittsburgh, Pa. (1900.)

Secretary Treasurer.—Guy M. Whipple, Carnegie Institute of Technology, Pittsburgh Pa.

Publication.—Year-book.

PLYMOUTH.

MARINE BIOLOGICAL ASSOCIATION, Plymouth. (1888.)

President.—Sir E. Ray Lankester, K.C.B., F.R.S.

Director.—E. J. Allen, D.Sc., F.R.S.

NATURALISTS.

L. R. Crawshay.

E. W. Nelson.

Miss M. V. Lebour.

J. H. Orton.

R. S. Clark.

POUGHKEEPSIE (New York).

VASSAR COLLEGE (for Women), Poughkeepsie, New York. (1861.)

Terms : Two per year.

Students : 1,107.

Budget (1918-1919): \$548,699. **Total assets, including buildings, \$6,000,000.**

OFFICIALS.

President.—H. Noble MacCracken, Ph.D., LL.D.

Dean.—Miss Ella McCaleb, A.B.

Head Warden.—Miss Jean C. Palmer, A.M.

Degrees conferred.—A.B., A.M.

PROFESSORS.

Professors :

- O. S. Tonks, *Art.*
- C. E. Furness, *Astronomy.*
- W. B. Hill, *Bible.*
- C. W. Moulton, *Chemistry.*
- H. E. Mills, *Economics.*
- L. J. Wylie, *English.*
- G. Buck, *English.*
- (Vacant), *Geology.*
- M. P. Whitney, *German.*
- G. H. Macurdy, *Greek.*
- L. M. Salmon, *History.*
- J. F. Baldwin, "
- E. Ellery, "
- J. L. Moore, *Latin.*
- H. S. White, *Mathematics.*
- G. C. Gow, *Music.*
- W. Riley, *Philosophy.*
- D. Drake

Professors—Continued :

- (Vacant), *Physics.*
- E. H. Thelberg, *Physiology.*
- E. D. Fite, *Political Science.*
- M. F. Washburn, *Psychology.*
- A. L. Treadwell, *Zoology.*

Associate Professors :

- Prof. Fiske, *English.*
- " Judson "
- " Peebles "
- " Wick, *Physics.*
- " Strcebe, *German.*
- " Textor, *History.*
- " Thallon "
- " Thompson, *History.*
- " Fahnestock, *Spanish and Italian.*
- " Palmer, *Latin.*
- " Haight "
- " Saunders "

Associate Professors—Continued :

- Prof. Cowley, *Mathematics*.
- „ Carter, *Physics*.
- „ Beckwith, *Zoology*.
- „ Cummings, *Mathematics*.
- „ Geer, *Music*.
- „ Dickinson, *Music*.
- „ Macleod, *Chemistry*.

Assistant Professors :

- Prof. Roberts, *Botany*.
- „ Newcomer, *Economics*.
- „ Johnson, *English*.
- „ Yost, *English*.
- „ Smith „

Assistant Professors—Continued :

- Prof. Cochran, *English Speech*.
- „ White, *French*.
- „ Conrow „
- „ Struck, *German*.
- „ Roselli, *Italian*.
- „ Landon, *Chemistry*.
- „ Schumb „
- „ Kilpatrick „
- „ Barbour, *History*.
- „ Wells, *Mathematics*.
- „ Chittenden, *Music*.
- 57 Lecturers.

Post-Graduate Courses.—Arranged by Departments as called for.

Museums.—Museums of Art and Natural History.

Library.—Thompson Memorial Library. Capacity, 200,000 volumes, 1,300 readers.
Head Librarian: Miss A. L. Reed.

PRINCE OF WALES COLLEGE. See JAMMA.

PRETORIA (South Africa).

TRANSVAAL UNIVERSITY COLLEGE, Pretoria. (1908.)

A Constituent College of the University of South Africa.

Terms: Two per year.

Students: 286.

OFFICIALS.

Rector.—A. C. Paterson, M.A.

Registrar.—A. A. Roberts, B.A., LL.B.

Degrees conferred.—Teachers' First Class Certificate, LL.B., B.D., B.A., M.A., M.Sc., B.Sc., D.Sc., B.Sc. (Agriculture), M.Sc. (Agriculture), D.Sc. (Agriculture), B.Com.

PROFESSORS.

ARTS.

Professors :

- A. C. Paterson, *Latin and Biblical Hebrew*.
- H. Reinink, *Greek*.
- J. P. R. Wallis, *English*.
- T. H. le Roux, *Dutch*.
- L. Fouche, *History*.
- W. A. Macfadyen, *Philosophy*.
- A. E. du Toit, *Mathematics*.

SCIENCE.

Professors :

- P. G. Gundry, *Physics*.
- D. F. du T. Malherbe, *Chemistry*.
- H. A. Wager, *Botany*.
- A. M. Bosman, *Agriculture*.
- J. M. Hector, *Agricultural Botany*.
- E. Anderson, *Agricultural Chemistry*.
- P. R. Viljoen, *Veterinary Science*.
- 19 Lecturers.

Library.—College Library. *Librarian:* (Vacant.)

PRINCETON (New Jersey).

PRINCETON UNIVERSITY, N.J., U.S.A. (1746.)

Terms: Two per year.

Students: 1,800.

Budget: \$830,000.

OFFICIALS.

President.—J. G. Hibben.

Dean of Science Departments.—H. B. Fine.

Dean.—W. F. Magie.

Dean of the Graduate School.—Andrew F. West.

Dean of the College.—H. McClenahan.

Treasurer.—Henry G. Duffield.

Secretary.—(Acting) V. Lansing Collins.

Secretary of Business Administration.—G. C. Wintringer.

Registrar.—F. L. Hutson.

Clerk of the Board of Trustees.—W. Farrand

Degrees conferred.

Degrees.

- A.B. - - Black Hood, lined with orange with black chevron, white trimmed.
 B.S. - - Black Hood, lined with orange with black chevron, yellow trimmed.
 A.M. - - Black Hood, lined with orange with black chevron, white trimmed.
 Ph.D. - - Black Hood, lined with orange with black chevron, blue trimmed.
 M.S. - - Black Hood, lined with orange with black chevron, yellow trimmed.

Hoods.

PROFESSORS.

FACULTY OF ARTS.

Professors :

- J. G. Hibben, *Philosophy*.
 F. L. Patton, *Ethics*.
 T. W. Hunt, *English*.
 W. Libbey, *Physical Geography*.
 A. Marquand, *Art and Archeology*.
 A. F. West, *Latin*.
 H. C. O. Huss, *Modern Languages*.
 J. H. Westcott, *Latin*.
 G. McLean Harper, *Belles Lettres and English Language and Literature*.
 P. Van Dyke, *History*.
 H. Van Dyke, *English Literature*.
 T. M. Parrott, *English*.
 E. Yard Robbins, *Greek Language and Literature*.
 W. U. Vreeland, *Romance Languages*.
 W. K. Prentice, *Greek*.
 H. C. Butler, *Art and Archeology*.
 D. R. Stuart, *Classics*.
 C. Gauss, *Modern Languages*.
 E. Capps, *Classics*.
 F. F. Abbott, *Latin Language and Literature*.
 H. J. Ford, *Politics*.
 R. B. C. Johnson, *Philosophy*.
 R. McNutt McElroy, *American History*.
 F. J. Mather, *Art and Archeology*.
 E. S. Corwin, *Jurisprudence*.
 H. F. Covington, *Public Speaking*.
 F. A. Fetter, *Political Economy*.
 D. Magie, *Classics*.
 J. D. Spaeth, *English*.
 D. L. Buffum, *Romanic Languages*.
 V. L. Collins, *French Language and Literature*.
 J. P. Hoskins, *Germanic Languages and Literature*.
 M. F. Blau, *Germanic Languages and Literature*.
 G. M. Priest, *Germanic Languages and Literature*.
 E. W. Kemmerer, *Economics and Finance*.
 G. B. McClellan, *Economic History*.
 A. A. Bowman, *Logic*.
 C. G. Osgood, *English*.
 E. G. Spaulding, *Philosophy*.
 A. Naves, *English*.
 D. C. Munro, *Medieval History*.
 P. M. Brown, *International Law*.
 W. Fite, *Ethics*.

Professors—Continued :

- G. H. Gerould, *English*.
 R. K. Root, *English*.
 C. C. Marden, *Spanish*.
 E. C. Armstrong, *French Language*.
 W. S. Myers, *Politics*.
 H. H. Bender, *Indo-Germanic Philology*.
 C. R. Morey, *Art and Archeology*.
 D. A. McCabe, *Economics*.
 D. C. Stuart, *Dramatic Literature*.
 F. H. Dixon, *Economics*.
 R. W. Rogers, *Ancient Literature*.

Associate Professors :

- H. R. Shipman, *History and Politics*.
 M. W. Croll, *English*.
 C. W. Kennedy, *English*.

Assistant Professors :

- P. J. J. van den Ven, *Byzantine History and Literature*.
 J. W. Basore, *Classics*.
 F. L. Hutson, "
 N. E. Griffin, *English*.
 F. C. MacDonald, "
 F. L. Critchlow, *Modern Languages*.
 W. Koren, " "
 H. W. Thayer, " "
 G. T. Whitney, *Philosophy*.
 G. W. Elderkin, *Art and Archeology*.
 D. C. Stuart, *Modern Languages*.
 R. Heermance, *English*.
 A. C. Johnson, *Classics*.
 H. S. Murch, *English*.
 T. J. Wertenbaker, *History and Politics*.
 C. R. Hall, *History and Politics*.
 W. P. Hall, " "
 C. Robinson, " "
 R. M. Scoon, *Classics*.
 H. B. Van Hoesen, *Curator of Manuscripts*.
 H. B. Dewing, *Classics*.
 H. C. Longwell, *Philosophy*.
 A. E. Morse, *History*.
 S. E. Howard, *Economics*.
 L. Cons, *Modern Languages*.
 E. B. Smith, *Art and Archeology*.
 S. W. Morgan, *Art and Archeology*.
 J. H. Williams, *Economics*.
 S. W. Weber, *Classics*.
 G. R. Davies, *Economics*.
 W. P. Cresson, *History and Politics*.
 P. A. Chapman, *Modern Languages*.
 S. Shellabarger, *English*.

FACULTY OF SCIENCE.

Professors :

- G. Macloskie, *Biology*.
 C. McMillan, *Civil Engineering*.
 W. B. Scott, *Geology*.
 F. N. Willson, *Graphics*.
 H. B. Fine, *Mathematics*.
 W. F. Magie, *Physics*.
 L. W. McCay, *Chemistry*.
 H. D. Thompson, *Mathematics*.
 H. S. S. Smith, *Civil Engineering*.
 W. B. Harris, *Geodesy*.
 E. H. Loomis, *Physics*.
 W. M. Rankin, *Biology*.
 C. F. W. McClure, *Zoology*.
 H. C. Warren, *Psychology*.
 A. H. Phillips, *Mineralogy*.
 F. Neher, *Organic Chemistry*.
 C. H. Smyth, jr., *Geology*.
 H. McClenahan, *Physics*.
 A. Trowbridge, *Physics*.
 E. G. Conklin, *Biology*.
 M. MacLaren, *Electrical Engineering*.
 E. P. Adams, *Physics*.
 L. P. Eisenhart, *Mathematics*.
 J. E. Raycroft, *Hygiene*.
 G. A. Hulett, *Physical Chemistry*.
 W. Foster, *Chemistry*.
 O. Veblen, *Mathematics*.
 U. Dahlgren, *Biology*.
 W. Gillespie, *Mathematics*.
 H. N. Russell, *Astronomy*.
 P. L. Boutroux, *Mathematics*.
 A. W. C. Menzies, *Chemistry*.

Post-Graduate Courses.—In Arts and Sciences, leading to the degrees of M.A., M.S., and Ph.D.

Library.—The University Library. *Librarian* : E. C. Richardson.

PRINCETON THEOLOGICAL SEMINARY, Princeton, U.S.A. (1812.)

Term : One term of 32 weeks, commencing in September.

Students : 158. *Budget* : \$164,000.

Degree conferred.—B.D.

OFFICIALS.

President.—Rev. J. Ross Stevenson, D.D., LL.D.

Registrar and Secretary of Faculty.—Rev. Paul Martin.

PROFESSORS.

Professors :

- J. Ross Stevenson, *History of Religion and Christian Missions*.
 B. B. Warfield, *Didactic and Polemic Theology*.
 J. D. Davis, *Oriental and Old Testament Literature*.
 W. B. Greene, *Apologetics and Christian Ethics*.
 G. Vos, *Biblical Theology*.
 R. D. Wilson, *Semitic Philology and Old Testament Criticism*.

Post-Graduate Courses.—Extensive advanced courses in Theology for students who have completed the usual three years' course in Theology.

Library.—109,937 volumes, 36,732 pamphlets. *Librarian* : Rev. J. H. Dulles.

Professors—Continued :

- F. H. Constant, *Civil Engineering*.
 G. H. Shull, *Botany and Genetics*.
 J. E. McMahon, jr., *Military Science and Tactics*.
 H. L. Cooke, *Physics*.
 K. T. Compton, "
 E. N. Harvey, *Physiology*.

Associate Professor :

- C. R. MacInnes, *Mathematics*.

Assistant Professors :

- M. S. Farr, *Geology*.
 P. E. Robinson, *Physics*.
 R. S. Dugan, *Astronomy*.
 G. Van Ingen, *Geology*.
 J. H. M. Wedderburn, *Mathematics*.
 E. F. Northrup, *Physics*.
 D. P. Smith, *Chemistry*.
 J. S. Van Nest, *Chemistry*.
 F. W. Luehring, *Physical Education*.
 H. C. McComas, *Psychology*.
 G. E. Beggs, *Civil Engineering*.
 E. N. Harvey, *Psychology*.
 H. S. Taylor, *Physical Chemistry*.
 L. R. Carey, *Biology*.
 W. J. Sinclair, *Geology*.
 N. B. Tooker, *Hygiene*.
 N. H. Farman, *Chemistry*.
 C. L. Fleece, "
 J. S. MacTaggart, *Military Science and Tactics*.
 W. K. McClure, *Military Science and Tactics*.

44 Teachers, 8 Instructors, etc.

Professors—Continued :

- W. P. Armstrong, *Literature and Exegesis*.
 C. R. Erdman, *Practical Theology*.
 F. W. Loetscher, *Church History*.
 J. R. Smith, *Homiletics*.
 C. W. Hodge, *Dogmatic Theology*.

Assistant Professor :

- J. G. Machen, *New Testament Literature and Exegesis*.
 2 Instructors, 7 Special Lecturers.

PROVIDENCE (Rhode Island).

BROWN UNIVERSITY, Providence, Rhode Island. (1784.)

Terms : Three a year.

Students : 800.

OFFICIALS.

President.—W. H. Perry Faunce, D.D., LL.D.*Chancellor.*—A. Buffum Chace, Sc.D.*Dean.*—O. Everett Randall, Ph.D.*Registrar and Secretary.*—F. Taft Guild, A.M.*Treasurer.*—C. Sowle Sweetland, A.M.

Degrees conferred.—A.B., A.M., Sc.B., Sc.M., Ph.B., Ph.D., D.P.H.

PROFESSORS.

THE FACULTY.

Professors :

A. G. Harkness, *Roman Literature and History.*H. B. Gardner, *Economics.*O. E. Randall, *Applied Mathematics.*C. Langdon, *Romance Languages and Literature.*E. B. Delabarre, *Psychology.*W. C. Bronson, *English.*W. G. Everett, *Philosophy and Natural Theology.*C. Barus, *Physics.*F. G. Allinson, *Greek Literature and History.*H. L. Koopman, *Bibliography.*J. E. Hill, *Civil Engineering.*J. Q. Dealey, *Social and Political Science.*W. B. Jacobs, *Education.*A. D. Mead, *Biology.*A. K. Potter, *English.*H. T. Fowler, *Biblical Literature and History.*L. T. Damon, *English.*W. H. Kenerson, *Mechanical Engineering.*L. S. King (Miss), *Classical Literature and Archeology.*F. W. Marvel, *Physical Training.*R. G. D. Richardson, *Pure Mathematics.*T. F. Collier, *European History.*S. S. Colvin, *Educational Psychology.*St. G. L. Sioussat, *American History.*G. W. Abbott, *Military Science and Tactics.*E. C. Griffith, *History.*F. P. Gorham, *Bacteriology.*F. Slocum, *Nautical Science.*

Associate Professors :

A. C. Crowell (Miss), *Germanic Languages and Literatures.*H. P. Manning, *Pure Mathematics.*A. De F. Palmer, *Physics.*A. B. Johnson, *Romance Languages.*J. F. Greene, *Roman Literature and History.*G. W. Benedict, *English.*T. Crosby, jr., *English and Public Speaking.*H. B. Huntington, *English.*A. Brooks, *Mechanics and Mechanical Drawing.*C. W. Brown, *Geology.*H. E. Walter, *Biology.*R. C. Archibald (Miss), *Pure Mathematics.*

Assistant Professors :

A. E. Watson, *Electrical Engineering.*C. H. Hunkins, *Romance Languages and Literatures.*P. H. Mitchell, *Physiology.*H. Cross, *Civil Engineering.*H. H. York, *Botany.*W. T. Hastings, *English.*J. C. Dunning, *Political Science.*A. H. Jones, *Logic.*R. McB. Mitchell, *Germanic Languages and Literatures.*J. A. Hall, *Mechanical Engineering.*K. K. Smith, *Greek Literature and History.*C. H. Currier, *Mathematics.*R. F. Chambers, *Chemistry.*

St. T. Arnold

T. H. Brown, *Nautical Science.*H. S. Bucklin, *Social Science.*H. F. Davidson, *Chemistry.*S. Wilmot, *Applied Mechanics.*

25 Instructors, 5 Lecturers and Demonstrators, 6 Assistants.

Post-Graduate Courses.—Leading to A.M., Sc.M., Ph.D., and D.P.H.

Libraries.—

University Library of 250,000 volumes. Librarian : H. L. Koopman, A.M., Litt.D.

John Carter Library of Americana.

Museum of Fine Arts. Director : F. G. Allinson, Ph.D.

Ladd Observatory. Director : R. G. D. Richardson, Ph.D.

PULLMAN (Washington).

THE STATE COLLEGE OF WASHINGTON, Pullman, Whitman County, Wash.
(1891.)

Three Semesters a year.

Students : 1,958.

University Budget : \$875,000 per year.

OFFICIALS.

President.—E. O. Holland, Ph.D.

Vice-President.—O. L. Waller, Ph.M.

General Secretary.—C. A. Isaacs, A.M.

Accountant.—W. C. Kruegel, B.A.

Registrar.—F. T. Barnard, B.S.

Dean of College of Agriculture and Director of the Experiment Station.—E. C. Johnson, M.A.

Dean of College of Home Economics.—Florence Harrison, M.A.

Dean of College of Mechanic Arts and Engineering.—H. V. Carpenter, M.S.

Dean of College of Sciences and Arts.—W. G. Beach, M.A.

Dean of College of Veterinary Science.—S. B. Nelson, D.V.M.

Dean of School of Education.—A. A. Cleveland, Ph.D.

Dean of School of Mines.—L. O. Howard, M.E.

Dean of School of Music and Applied Design.—H. Kimbrough.

Head of School of Pharmacy.—P. H. Dirstine, B.S.

Head of Department of Elementary Science.—F. O. Kreaeger, B.A.

Director of Agricultural Extension.—S. B. Nelson, D.V.M.

Director of General College Extension.—F. F. Nalder, Ph.D.

Dean of Women.—Rhoda M. White, B.A.

Degrees conferred.—B.A., B.S., M.A., M.S., C.E., E.M., E.E., Ph.G., Ph.C., D.V.M.

PROFESSORS.

Professors :

J. P. Fairbank, *Agricultural Engineering.*

H. Haekedorn, *Animal Husbandry.*

E. G. Woodward, *Dairy Husbandry.*

E. G. Schafer, *Farm Crops.*

G. Severance, *Farm Management.*

E. H. Steffen, *Forestry.*

O. M. Morris, *Horticulture.*

R. J. Barnett, *Pomology.*

F. D. Heald, *Plant Pathology.*

R. V. Mitchell, *Poultry Husbandry.*

F. J. Sievers, *Soils.*

R. Weaver, *Architecture.*

O. L. Waller, *Civil Engineering.*

M. K. Snyder, *Sanitary Engineering.*

H. E. Phelps, *Highway Engineering.*

H. V. Carpenter, *Mechanical and Electrical Engineering.*

C. A. Isaacs, *Mathematics.*

J. W. Ramsey, *Applied Electricity.*

A. Cammaek, *Steam Engineering.*

B. L. Steele, *Physics.*

F. L. Pickett, *Botany.*

C. C. Todd, *Chemistry.*

C. M. Brewster, *General and Physical Chemistry.*

W. G. Beach, *Sociology and Head of Department of Economic Science and History.*

F. A. Golder, *History.*

Professors—Continued :

L. F. Jackson, *American History.*

F. F. Nalder, *Sociology.*

B. McCully, *English.*

C. A. Cornelson, *English.*

F. C. Chalfont, *Modern Languages.*

F. F. Potter, *Latin.*

S. Shedd, *Geology.*

A. L. Melander, *Zoology.*

W. T. Shaw, *Zoology.*

A. A. Cleveland, *Education.*

D. W. Hamilton, *Agricultural Education.*

F. Harrison (Miss), *Home Economics.*

Lt.-Col. A. W. Cleary, *Military Science and Tactics.*

L. O. Howard, *Mines.*

H. Kimbrough, *Piano.*

I. Wright-Herbst (Miss), *Vocal Music.*

G. Herbst, *Violin.*

W. T. McDermitt, *Drawing and Design.*

P. H. Dirstine, *Pharmacy.*

J. F. Bohler, *Physical Education.*

S. B. Nelson, *Veterinary Science.*

E. E. Wegner, *Anatomy and Surgery.*

J. W. Kalkus, *Histology and Pathology.*

O. Menig, *Veterinary Medicine.*

F. O. Kreaeger, *Elementary Science.*

Associate Professors :

E. C. Colpitts, *Mathematics.*

A. C. Abell, *Mechanical Engineering.*

Associate Professors—Continued :

- G. H. Jensen, *Plant Physiology and Pharmacognosy.*
 T. J. Murray, *Bacteriology.*
 R. P. Cope, *Agricultural and Analytical Chemistry.*
 F. Thayer, *Journalism.*
 E. I. Avery (Miss), *Textiles and Clothing.*
 C. G. Warfel, *Mining.*

Assistant Professors :

- C. E. Howell, *Animal Husbandry.*
 E. F. Gaines, *Farm Crops.*
 D. P. Hull, *Landscap Gardening and Floriculture.*
 A. F. Heck, *Soils.*
 G. E. Thornton, *Mechanical Engineeering,*
 S. C. Roberts, *Manual Training.*
 F. G. Tucker, *Physics.*
 H. C. Aase (Miss), *Botany.*
 A. G. Paterson (Miss), *Analytical Chemistry.*

Libraries.—

- The College Library.
 The Experiment Station Library.

Librarian : W. W. Foot.

Post-Graduate Courses offered in practically all Departments.

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—E. C. Johnson.

PUNJAB UNIVERSITY. See LAHORE.**QUÉBEC (Canada).**

UNIVERSITÉ LAVAL, Québec, Canada. (1852.)

Terms : Three a year.

Students : 1,288.

OFFICIALS.

Chancellor.—L'Eminentissime Louis N. Bégin.

Vice-Chancellor.—Sa Grandeur Mgr. P. L. N. Bruchési.

Rector.—Mgr. F. Pelletier.

Secretary.—M. Ph. J. Fillion.

Degrees conferred.—Ph.D., B.A., B.L., B.S., M.B., M.D., LL.B., LL.L., B.Th., L.Th., D.Th., B.C.L., L.C.L., D.C.L.

PROFESSORS.**FACULTY OF THEOLOGY.****Professors :**

- L. A. Pâquet, *Dogmatic Theology.*
 E. Nadeau, *Moral Theology.*
 J. Gignac, *Canonical Law.*
 Chs. N. Gariépy, *Moral Theology.*
 J. E. Grandbois, *Oriental Languages.*
 P. B. Garneau, *Ecclesiastical History.*
 A. Robert, *Dogmatic Theology.*
 C. Gagnon, *Moral Theology.*
 F. L. Lelandais, *Pastoral Theology.*
 N. V. Many, *Hebrew.*
 J. E. Dorvaux, *Hebrew.*
 F. Duchéin, *Canonical Law.*
 R. Neveu, *Ecclesiastical History.*

Associate Professors :

- B. M. Gattet, *Holy Writing.*
 L. J. François, *Holy Writing.*
 L. Perrin, *Dogmatic Theology.*
 H. J. Jeannotte, *Dogmatic Theology.*
 A. Pasquier, *Moral Theology.*
 E. V. Jacob, *Holy Writing.*
 R. Allard, *Dogmatic Theology.*
 2 Fellows.

FACULTY OF LAW.**Professors :**

- L'honorable E. J. Flynn, *Roman Law.*
 Sir A. B. Routheir, *Instructional Law.*
 A. Pouliot, *Civil Proceedings.*

Professors—Continued :

- L. P. Sirois, *Constitutional Law*.
 Ls. M. J. A. Bernier, *Commercial Law*.
 E. Belleau, *Roman Law*.
 L'honorable C. E. Dorion, *Civil Law*.
 J. E. Prince, *Social and Political Economy*.
 Sir C. Fitzpatrick, *Criminal Law*.
 L'honorable L. P. Pelletier, *Customs Legislation*.
 F. Roy, *Criminal Law*.
 J. Sirois, *Constitutional Law*.
 L. St. Laurent, *History of Law*.
 Sir L. Jetté, *Civil Law*.
 Sir A. Lacoste, *Commercial Law*. [*Law*.
 L'honorable C. C. de Lorimer, *Criminal Law*.
 L'honorable E. Lafontaine, *Civil Law*.
 L'honorable L. P. Demers, *Civil Law*.
 L'honorable R. Lemieux, *History of International Law*.
 L'honorable N. Pérodeau, *Law*.
 P. Cousineau, *Constitutional Law*.
 Ls. J. S. Morin, *Criminal Law*.
 R. Taschereau, *Civil Procedure*.
 V. Morin, *Administrative Law*.
 E. Montpetit, *Political Economy*.
 A. Perrault, *Commercial Law*.
 4 Fellows.

FACULTY OF MEDICINE.

Professors :

- E. Turcot, *Materia Medica*.
 M. D. Brochu, *Nervous Diseases*.
 A. C. Hamel, *Histology*.
 A. Marois, *Toxicology*.
 S. Grouin, *Gynecology*.
 A. Simard, *Pathology*. [*Diseases*.
 P. Coote, *Pathology, and Ear and Eye*.
 R. Fortier, *Children's Diseases*.
 A. Rousseau, *Pathology and Eye and Ear Diseases*.
 N. A. Dussault, *Pathology and Eye and Ear Diseases*.
 R. Paquin, *Hygiene*.
 J. D. Pagé, *Ophthalmology*.
 P. V. Faucher, *Materia Medica*.
 J. Guérard, *Therapeutics*.
 L. J. N. Fiset, *Laryngology*.
 R. Mayrand, *Dermatology*.

Library of 107,514 bound volumes and 35,397 pamphlets. Librarians : Ph.B. Garneau and L. E. Nadeau.

Museums of Mineralogy, Geology, Botany, Zoology, Ethnology, Art, Numismatics, and Religion.

AFFILIATED INSTITUTIONS.

- Ecole Polytechnique de Montréal.
 Ecole d'Arpentage et de génie forestier, Québec.
 Institut Agricole d'Oka.
 Ecole d'Agriculture, de Ste. Anne.

Professors—Continued :

- C. Dagneau, *Anatomy*.
 A. Pâquet " "
 A. Vallée, *Bacteriology*.
 O. Leclerc, *Physiology*.
 5 Fellows.

FACULTY OF ARTS.

Professors :

- A. Gosselin, *History of Canada*.
 F. Pelletier, *Greek Literature*.
 H. Simard, *Physics*.
 C. Roy, *French Literature*.
 Ph. J. Fillion, *Chemistry*.
 A. Rivard, *Elocution*.
 Sir G. Garneau, *Analytical Chemistry*.
 L'honorable T. Chapais, *History*.
 P. Hébert, *Latin Literature*.
 J. N. Gastonguay, *Topography*.
 G. C. Piché, *Forestry*.
 A. Bédard " "
 A. Smith, *Astronomy*.
 J. Bouffard, *Forestry Law*.
 A. Tremblay, *Mathematics*.
 A. Mercil " "
 A. Garneau, *Geography*.
 P. Joncas, *Building Construction*.
 A. Vachon, *Geology and Mineralogy*.
 A. Aubert, *French*.
 O. Bergeron, *Mathematics*.
 J. F. Laliberté, *Greek Literature*.
 P. Choquette, *Physics*.
 G. Dauth, *History and Philosophy*.
 E. Hébert, *History of Canada*.
 E. L. Perrin, *Philosophy*.
 E. Marceau, *Industrial Economy*.
 A. Curotte " "
 P. Perrier " "
 A. Nantel, *Christian Apologetics*.
 L. A. Jasmin, *Eloquence*.
 J. B. Lagace, *History of Art*.
 J. L. Desjardins, *Ecclesiastical History*.
 E. Chartier, *Canadian Literature*.
 Sir L. Jette, *Political Economy*.
 E. Auclair, *Philosophy*.
 R. Gautheron, *French Literature*.
 L. Groux, *History of Canada*.
 G. Vanier, *Commercial Law*.
 2 Fellows.

QUEEN'S COLLEGE. See MELBOURNE.

QUEEN'S THEOLOGICAL COLLEGE. See KINGSTON.

QUEEN'S UNIVERSITY. See BELFAST.

RALEIGH (North Carolina).

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—B. W. Kilgore.

RAMJA'S COLLEGE. See DELHI.

RANDHIR COLLEGE. See KAPURTHALA.

RANGOON (Burma).

RANGOON COLLEGE, RANGOON. (1885.)

The College is affiliated to the B.A. and B.Sc., standard of the Calcutta University in English, Pali, Mathematics, and Chemistry to the Honours standard; and in Persian, Philosophy, and Physics to the Pass standard.

Terms: Two a year.

Students: 680.

Budget: Rs. 176,091: 12: 3.

OFFICIAL.

Principal.—M. Hunter, M.A., C.I.E.

PROFESSORS.

G. H. Luce, *English.*

A. Campbell, "

C. W. Ainley, "

W. Douglas, "

M. Tin, *Pali.*

L. G. Owen, *Mathematics.*

K. P. De, *Mathematics.*

L. P. Saunders, *Philosophy.*

G. R. T. Ross, "

A. E. Bellars, *Chemistry.*

R. Venkateswaran, *Chemistry.*

K. M. Ward, *Physics.*

10 Lecturers.

RAPID CITY (South Dakota).

SOUTH DAKOTA STATE SCHOOL OF MINES, Rapid City, South Dakota, U.S.A. (1885.)

Terms: Two semesters.

Students: 125.

Budget: Legislative appropriations with fees, etc., will amount for the years 1919-20 and 1920-21 to approximately \$250,000, including \$100,000 for a new engineering building.

OFFICIALS.

President.—C. C. O'Harra.

Degrees conferred.—B.S. in Mining Engineering, B.S. in Metallurgical Engineering, E.M. (Engineer of Mines), M.E. (Metallurgical Engineer).

PROFESSORS.

Professors:

C. C. O'Harra, *Geology.*

H. L. McLaury, *Mathematics.*

J. McLearn, *English.*

J. P. Connolly, *Mineralogy and Petrography.*

C. S. Bisson, *Chemistry.*

C. L. Swisher, *Physics.*

Professors—Continued:

W. C. Bochart, *Mining.*

F. W. Traphagem, *Metallurgy.*

A. S. Hathway, *Civil Engineering.*

Assistant Professors:

B. E. Leete, *Biology.*

C. Bentley, *Analyst in charge of State Mining Experiment Station.*

Museums.—Geological Museum and Metallurgical Museum.

Library.—Technical Library of 8,000 volumes. *Librarian:* D. M. Haft.

RAWALPINDI (Punjab).

GORDON COLLEGE, Rawalpindi, Punjab.

Affiliated to the University of the Punjab, Lahore.

Students: 175.

OFFICIALS.

Principal.—Rev. E. Porter, M.A., D.D.

PROFESSORS.

E. L. Porter, <i>English.</i>	L. S. Nand, <i>Mathematics.</i>
W. H. Merriam, „	I. Latif, <i>Philosophy.</i>
R. R. Stewart, <i>Biology.</i>	R. Singh, <i>English and History.</i>
J. E. Strong, <i>Physics and Chemistry.</i>	M. M. Akram, <i>Persian and Arabic.</i>
P. Ponsonby, <i>History and Economics.</i>	Pt. U. Chend, <i>Sanskrit.</i>
M. A. Rahman, <i>Persian and English.</i>	

READING.

UNIVERSITY COLLEGE, Reading. (1892.)

Terms : Three a year.

Students : 1,200 day and evening.

OFFICIALS.

Visitor.—The Very Rev. The Dean of Christ Church, Oxford.
President.—J. Herbert Benyon, M.A., J.P. (Lord Lieut. of Berkshire).
Chairman of Council.—Alfred Palmer, J.P.
Principal.—W. M. Childs, M.A.
Registrar.—Francis H. Wright, M.A.

Degrees.—As the College is not an independent University it has no power to confer degrees; but it offers Diplomas in Letters, Agriculture, Horticulture, Dairying, Fine Arts, Commerce, Music, and Domestic subjects.

PROFESSORS.

FACULTY OF LETTERS.

Professors :

W. G. D. Burgh, *Philosophy.*
 P. N. Ure, *Classics.*
 R. Dewar, *English Literature.*
 E. J. Morley (Miss), *English Language.*
 F. M. Stenton, *Modern History.*
 W. M. Childs (Hon.), *Modern History.*
 2 Research Fellows, 20 Lecturers, 2
 Assistant Lecturers, 2 Teachers.

FACULTY OF SCIENCE.

W. G. Duffield, *Physics.*

Professors—*Continued* :

H. Bassett, *Chemistry.*
 F. J. Cole, *Zoology.*
 H. N. Dickson, *Geography.*
 9 Lecturers, 1 Assistant.

FACULTY OF AGRICULTURE AND HORTICULTURE.

S. J. M. Auld, *Agricultural Chemistry.*
 J. Percival, *Agricultural Botany.*
 8 Lecturers, 1 Analyst, 1 Research
 Chemist, 1 Research Baeteriologist,
 5 Assistants, 1 Instructor.

INCORPORATED INSTITUTIONS.

The British Dairy Institute.
 The Research Institute in Dairying.

RENSSLAER POLYTECHNIC INSTITUTE. *See* TROY.

RENO (Nevada).

UNIVERSITY OF NEVADA, Nevada, U.S.A. (1873.)

The University of Nevada is the only institution of higher education in the State of Nevada, and it combines the advantages usually offered in other States in the Normal School, Agricultural College, and the University.

Terms : Two semesters of five months each, and a summer session of six weeks.
Students : In normal times 350. Last year, because of war conditions, 285.

OFFICIALS.

President.—W. E. Clark.
Vice-President.—R. Lewers.
Registrar.—Miss L. M. Sissa.
Comptroller.—C. H. Gorman.
Superintendent of the Buildings.—J. B. Lynch.

Degrees conferred.—B.A. or B.S., B.S. in Engineering, B.S. in Agriculture and in Home Economics, M.A., and M.S.

PROFESSORS.

FACULTY OF ARTS AND SCIENCES.

Professors :

- J. E. Church, *Classics*.
 J. E. Wier, *History*.
 P. Frandsen, *Biology*.
 R. Adams, *Economics and Sociology*.
 M. Adams, *Chemistry*.
 H. W. Hill, *English*.
 L. W. Hartman, *Physics*.
 R. C. Thompson, *Philosophy*.
 W. S. Palmer, *Metallurgy*.
 C. S. Spencer, *Political Science*.
 A. E. Hill, *English*.
 J. P. Ryan, *Military Science and Tactics*.

Associate Professors :

- K. Lewers (Miss), *Freehand Drawing*.
 C. Goggio, *Romanic Languages and Literature*.
 W. E. Lowther, *Romanic Languages and Literature*.
 K. Riegelhuth (Miss), *German*.
 A. E. Turner, *Oral English*.
 G. W. Sears, *Chemistry*.

Assistant Professors :

- S. C. Feemster, *History*.
 M. E. Mack (Miss), *Biology*.

FACULTY OF ENGINEERING.

Professors :

- H. P. Boardman, *Civil Engineering*.
 C. Hasaman, *Mathematics and Mechanics*.
 F. C. Lincoln, *Mining*.
 J. C. Jones, *Geology and Mineralogy*.
 S. G. Palmer, *Electrical Engineering*.

Post-Graduate Courses.—Post-Graduate Courses are offered in all Departments of the University.

Museums.—

- Mackay Mining Museum.
 Agricultural Museum.
 Biological Museum.
 Pathological Museum.

Library.—The University Library consists of 32,000 bound volumes and several thousand pamphlets. Also various departmental libraries. Mining Library, Agricultural Library.

Phi Kappa Phi is the student Honor Society.

AFFILIATED INSTITUTIONS.

A Public Service Division constituted of the following six departments:

1. Agricultural Experiment Station.
2. Agricultural Extension Division.
3. Food and Drugs Control, and Weights and Measures.
4. State Hygienic Laboratory.
5. State Veterinary Control Service.
6. State Mining Laboratory.

Associate Professors :

- J. A. Nyswander, *Mathematics and Mechanics*.
 P. G. McKinlay, *Mechanical Engineering*.

Assistant Professors :

- A. W. Preston, *Mechanical Engineering*.
 C. R. Hill, *Civil Engineering*.

FACULTY OF EDUCATION.

Professors :

- J. R. Young, *Education*.
 A. L. Day (Miss), *Education*.
 M. L. Sears, *Home Economics*.

Associate Professors :

- E. Sameth (Miss), *Physical Education for Women*.
 R. O. Cortwright, *Physical Education for Men*.

Assistant Professor :

- F. W. Traner, *Education*.

FACULTY OF AGRICULTURE.

Professors :

- C. S. Knight, *Agronomy*.
 F. W. Wilson, *Animal Husbandry*.
 E. Records, *Veterinary*.

Associate Professors :

- V. E. Scott, *Dairying*.
 C. E. Fleming, *Animal Husbandry*.
 F. L. Bixby, *Agronomy*.

Assistant Professors :

- S. C. Dinsmore, *Agricultural Chemistry*.
 C. W. Lantz, *Botany and Horticulture*.
 G. Hardman, *Agronomy*.
 Also 9 Instructors and Assistants.

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.*Director.*—S. B. Doten.**RHODES UNIVERSITY COLLEGE.** See **GRAHAMSTOWN.****RIO PIEDRAS (Porto Rico).****INSULAR STATION, U.S. DEPARTMENT OF AGRICULTURE.***Director.*—E. D. Colon.**ROBERTSON COLLEGE.** See **EDMONTON.****ROCHESTER (New York).****ROCHESTER THEOLOGICAL SEMINARY, Rochester, New York, U.S.A. (1850.)**

Admits College Graduates only; not co-educational.

Terms: Three per year.*Students (1919-1920):* 61.*Budget:* \$78,635.03.

OFFICIALS.

President.—The Rev. C. A. Barbour, D.D.*Dean.*—The Rev. J. W. A. Stewart, D.D., LL.D.*Registrar.*—The Rev. G. B. Ewell, A.B., B.D.

Degrees conferred.—B.D., Th.M. The Hoods are royal purple and gold.

PROFESSORS.

A. H. Strong (President Emeritus).

C. A. Barbour, *Homiletics.*J. P. Silvernail, *Elocution and Sacred Oratory.*J. W. A. Stewart, *Christian Ethics and Pastoral Theology.*C. H. Moehlmann, *Church History.*G. Cross, *Systematic Theology.*H. B. Robins, *Religious Education, the History and Philosophy of Religion and Missions.*E. W. Parsons, *New Testament Interpretation.*J. W. Nixon, *English Bible and Christian Sociology.*J. R. Brown, *Hebrew Language and Literature.*Library.—46,776 volumes. *Librarian:* The Rev. G. B. Ewell, A.B., B.D.**ROSE POLYTECHNIC INSTITUTE.** See **TERRE HAUTE.****ROTHAMSTED.****ROTHAMSTED EXPERIMENTAL STATION, Rothamsted.**

John Bennet Lawes was the founder of the Rothamsted Experimental Station. He began systematic field experiments in 1843 in conjunction with Joseph Henry Gilbert; this partnership lasted until the death of Lawes in 1900.

Under the scheme initiated by the Board of Agriculture for establishing a number of Institutes for fundamental research in agriculture, the Rothamsted Experimental Station has been recognized as the Institute for dealing with Soil and Plant Nutrition Problems, and since 1911 it has received an annual grant out of the Development Fund which has been gradually increased from £2,500 to £4,750.

In 1918, at the instigation of the Board of Agriculture, an Institute for investigations in Plant Pathology was established at Rothamsted comprising three sections dealing respectively with Entomology, Mycology, and Helminthology.

OFFICIALS.

Director.—E. J. Russell, D.Sc., F.R.S.*Secretary.*—Miss Ruth Gimingham.

PROFESSORS.

E. H. Richards, *Chemist.*

F. Tattersfield

E. Horton

D. J. Matthews, *Chemist.*

G. C. Sawyer

E. M. Crowther

Professors—Continued:

- W. A. Roach, *Chemist.*
- B. A. Keen, *Soil Physicist.*
- H. G. Thornton, *Bacteriologist.*
- W. E. Brenchley (Miss), *Botanist.*
- L. M. Crump (Miss), *Protozoologist.*
- D. W. Cutler, *Protozoologist.*

Professors—Continued:

- D. J. Matthews (Mrs.), *Research Biologist.*
- A. D. Inams, *Entomologist.*
- W. B. Brierley, *Mycologist.*
- S. T. Jewson (Miss), *Assistant Mycologist.*

SACKVILLE (New Brunswick).

MOUNT ALLISON UNIVERSITY, Sackville, New Brunswick. (1862.)

Terms: Two terms a year.

Students: 240.

Budget:

Revenue from all sources	\$61,315.47.
Expenditure	\$56,821.17.

OFFICIALS.

President.—Rev. B. C. Borden, D.D., D.C.L.

Registrar.—W. M. Tweedie, M.A.

Degrees conferred:

Degrees.

Hoods.

- B.A. - Black stuff edged on inside with garnet silk.
- B.Sc. - Black stuff edged on inside with gold-coloured silk.
- B.Mus. - Black stuff edged on inside with royal blue silk.
- B.D. - Black stuff edged on inside with garnet silk and ermine.
- M.A. - Black stuff or silk with lining of garnet silk.
- D.D. - Scarlet cloth lined with purple silk.
- LL.D. - Scarlet cloth lined with blue silk.
- D.C.L. - Scarlet cloth lined with old gold silk.

PROFESSORS.

FACULTY OF ARTS AND SCIENCE.

Professors:

- Rev. B. C. Borden, *Political Science.*
- S. W. Hunton, *Mathematics.*
- W. M. Tweedie, *English Language and Literature.*
- J. M. Palmer, *French Language and Literature.*
- H. E. Bigelow, *Chemistry.*
- Rev. R. B. Liddy, *Philosophy.*
- C. C. Delano, *Classics.*
- P. B. Perkins, *Physics.*
- A. B. Dawson, *Biology.*

FACULTY OF ENGINEERING

Professors:

- J. W. Crowell, *Engineering.*
- H. W. McKiel, *Mechanical Engineering.*

FACULTY OF THEOLOGY.

Professors:

- Rev. W. G. Watson, *Hebrew, Old Testament Exegesis and English Bible.*
 - Rev. F. W. W. Des Barres, *Church History.*
 - Rev. J. Line, *Systematic Theology and History of Doctrine.*
- 3 Lecturers. 3 Instructors.

Post-Graduate Courses.—Specially organized Graduate Department.

Librarian: F. W. W. Des Barres.

ST. ALBANS (Herts).

HERTFORDSHIRE NATURAL HISTORY SOCIETY, County Museum, St. Albans, Herts.

OFFICIALS.

President.—A. E. Boycott, M.A., M.D., B.Sc., B.Ch., F.R.S.

Treasurer.—J. Weall.

Hon. Secretaries.—C. Oldham, E. J. Salisbury, D.Sc.

ST. ANDREWS.

UNIVERSITY OF ST. ANDREWS, St. Andrews. (1411.)

Terms: Three a year.

Students (1918-1919): 513.

OFFICIALS.

Chancellor.—The Right Hon. Lord Balfour of Burleigh, K.T., LL.D.

Vice-Chancellor.—Sir John Herkless, D.D., LL.D.

Rector.—Sir James Matthew Barrie, Bart., LL.D.

Principal.—Sir J. Herkless, D.D., LL.D.

Principal St. Mary's College.—The Very Rev. G. Galloway, M.A., B.D., D.Phil., D.D.

Principal University College, Dundee.—J. Y. Mackay, M.D., LL.D.

Degrees conferred :

<i>Degrees.</i>	<i>Hoods.</i>
M.A. - -	Black silk, with red silk lining.
B.D. - -	Violet-purple silk or cloth, bordered with white fur.
D.D. - -	Violet-purple silk or cloth, with white satin lining.
LL.D. - -	Scarlet silk or cloth, with white satin lining.
M.B., Ch.B.	Crimson silk or cloth, bordered with white fur.
M.D. - -	Crimson silk or cloth, with white satin lining.
D.Litt. - -	Orange silk, with white lining.
B.Litt. - -	Orange silk, bordered with white fur.
D.Phil. - -	Yellow silk, with white lining.
B.Phil. - -	Yellow silk, bordered with white fur.
Mus.D. - -	Coculean blue silk or cloth, with white satin lining.
Ch.M., Ed.B.	Hoods not yet prescribed.

PROFESSORS, ETC.

Professors :

- J. Burnet, *Greek*.
 A. Lawson, *English Literature*.
 J. Edgar, *Education*.
 G. F. Stout, *Logic and Metaphysics*.
 A. E. Taylor, *Moral Philosophy*.
 P. R. S. Lang, *Mathematics*.
 A. S. Butler, *Natural Philosophy*.
 J. E. Staggall, *Mathematics*.
 D. W. Thompson, *Natural History*.
 P. Geddes, *Botany*.
 W. Peddie, *Physics*.
 J. C. Irvine, *Chemistry*.
 A. H. Gibson, *Engineering and Drawing*.
 A. M'Kenzie, *Chemistry*.
 D. Waterston, *Anatomy*.
 J. F. Gemmill, *Natural History*.
 J. J. Mackay, *Anatomy*.
 E. W. Reid, *Physiology*.
 A. M. Stalker, *Medicine*.
 J. A. C. Kynoch, *Midwifery*.
 L. R. Sutherland, *Pathology*.
 P. T. Herring, *Physiology*.
 L. T. Price, *Surgery*.
 F. J. Charteris, *Materia Medica*.
 G. Galloway, *Divinity*.
 W. M. Lindsay, *Humanity*.
 D. M. Kay, *Hebrew and Oriental Language*.
 A. Main, *Ecclesiastical History*.
 G. Duncan, *Divinity and Biblical Criticism*.
 31 Assistant Lecturers.

Readers :

- R. A. Robertson, *Botany*.
 W. N. Haworth, *Chemistry*.

Lecturers :

- J. Allison, *Scots Law*. [*Literature*.
 T. R. Mills, *Latin Language and*

Lecturers—Continued :

- T. P. Young, *French Language and Literature*.
 G. Soutar, *English Language and Literature*.
 H. J. Thomson, *Latin*. [*Literature*.
 J. A. Roy, *English Language and*
 J. D. Mackie, *Modern History*.
 F. J. Tanqueray, *French Language and Literature*.
 D. Morrison, *Logic and Psychology*.
 W. L. Lorimer, *Greek*.
 J. W. Williams, *Political Economy*.
 C. D. Broad, *Logic and Psychology*.
 K. Hayens, *German*.
 Smith, M. (Miss) ,,
 J. H. Wilson, *Agriculture and Rural Economy*.
 W. G. Robson, *Natural Philosophy*.
 G. Robertson, *Chemistry*.
 J. K. Wood, *Chemistry*.
 A. Fulton, *Engineering*.
 G. West, *Botany*.
 A. MacGillivray, *Ophthalmology*.
 J. M. Whyte, *Clinical Medicine*.
 D. M. Greig, *Clinical Surgery and Diseases of Children*.
 R. C. Buist, *Midwifery and Gynecology*.
 W. T. Maekenzie, *Mental Diseases*.
 J. S. Y. Rogers, *Diseases of Children*.
 W. E. Foggie, *Diseases of the Skin*.
 F. M. Milne, *Clinical Pathology*.
 W. L. Robertson, *Clinical Surgery*.
 R. P. Mathers, *Diseases of the Throat, Nose, and Ear*.
 D. R. Dow, *Regional Anatomy*.
 W. L. Burgess, *Fevers, and on Public Health*. [*ology*.
 W. E. Collinge, *Comparative Embryology*.
 W. J. Tulloch, *Bacteriology*.

Post-Graduate Courses.—Post-Graduate work can be carried on in the Science and Medical Departments at St. Andrews and Dundee, including Chemistry, Botany, Zoology, Natural Philosophy, Anatomy, Physiology, Engineering, Electrical Engineering, Agriculture, and in the several Arts Departments.

Libraries.—

University Library, St. Andrews.

University College, Dundee.

Librarians : J. M. Anderson, LL.D., and H. Willsher.

Museums.—

Bell Pettigrew Museum. *Director* : Prof. D'A. W. Thompson.

Chemical Research Laboratory. *Director* : Prof. J. C. Irvine.

INCORPORATED INSTITUTIONS.

United College of St. Salvator and St. Leonard (1450).

St. Mary's College (1537).

University College, Dundee (1883).

These are incorporated in and form part of the University of St. Andrews.

ST. CROIX (Virgin Islands).

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Agronomist.—Longfield Smith.

ST. DAVID'S COLLEGE. See LAMPETER.

ST. HELIER (Jersey).

THE ST. LOUIS OBSERVATORY, St. Hélier, Jersey.

Founded in 1893 for Meteorological, Magnetical, and Electrical Studies. Each year the observations are published in a Bulletin. Since 1914 the Bulletins form part of the Geophysical Journal edited by the Meteorological Office of London.

Director.—The Rev. M. Dechevrens, S.J.

SAINT JOHN (New Brunswick).

NATURAL HISTORY SOCIETY OF NEW BRUNSWICK, Saint John, New Brunswick.
(1862.)

The Natural History Society of New Brunswick was organized in 1862, and has for many years maintained a natural history and historical Museum. Its Library contains upwards of fifteen thousand books and pamphlets. It publishes a bulletin, six volumes of which have been issued, and is the largest Museum in the province of New Brunswick. Its policy is to acquire as complete collections as possible of local material. At present it has the largest collection extant in eastern Canadian archeology, zoology, botany, entomology, and paleontology, including much type material. The financial support is from the general funds of the Society, aided by appropriations from the Provincial and Municipal Governments.

President.—J. Roy Campbell, B.C.L., LL.D., K.C.

Corresponding Secretary and Curator.—W. MacIntosh.

ST. JOHN'S COLLEGE. See ANNAPOLIS.

ST. LOUIS (Missouri).

ST. LOUIS UNIVERSITY, Mo., U.S.A. (1818.)

Terms : Two semesters.

Students : 1,469.

OFFICIALS.

President.—Rev. B. J. Otting, S.J.

Chancellor.—Rev. C. T. Kohne, S.J.

Secretary.—Rev. M. McMenamy, S.J.

Treasurer.—Rev. C. T. Hoffman, S.J.

Degrees conferred.—A.B., A.M., B.S., Ph.B., LL.B., LL.M., B.C.S., D.D.S., M.D.

PROFESSORS.

FACULTY OF ARTS AND SCIENCES.

Professors :

- Rev. C. J. Borgmeyer, *Mathematics and Astronomy*.
 Rev. J. P. Coony, *Chemistry*.
 Rev. J. L. Davis, *English*.
 Rev. H. J. DeLaak, *Mathematics*.
 Rev. H. Gruender, *Psychology*.
 Rev. L. J. Kenny, *History*.
 Rev. O. J. Kuhnmueneh, *Latin*.
 D. A. Lord, *English*.
 J. B. Louis, *Drawing*.
 Rev. M. McMenamy, *Special Metaphysics*.
 Rev. J. B. Macelwane, *Mathematics*.
 Rev. A. Muntsch, *Spanish and French*.
 T. A. O'Reilly, *Surveying*.
 Rev. W. A. Padberg, *Philosophy*.
 A. H. Poetker, *Physics and Geology*.
 W. S. Robb, *Chemistry*.
 Rev. A. J. Rother, *Logic and Ontology*.
 Rev. W. J. Ryan, *Mathematics*.
 Rev. T. J. Schulte, *Chemistry*.
 Rev. J. J. Shannon, *Physics*.
 Rev. M. I. Stritch, *Special Metaphysics and History of Philosophy*.
 F. A. Thornton, *Economics and Political Science*.
 Rev. T. A. Wallace, *Ethics*.

Associate Professor :

- H. G. Bristow, *Chemistry*.

SCHOOL OF MEDICINE.

Professors :

- C. Barck, *Ophthalmology*.
 C. G. Chaddock, *Diseases of the Nervous System*.
 W. T. Coughlin, *Surgery*.
 H. Ehrenfest, *Gynecology and Obstetrics*.
 W. P. Elmer, *Medicine*.
 W. Engelbach, *Medicine*.
 C. Glaser, *Oral Surgery and Dental Hygiene*.
 W. W. Graves, *Nervous Diseases*.
 J. Grindon, *Dermatology and Syphilology*.
 B. M. Hypes, *Obstetrics*.
 D. R. Joseph, *Physiology*.
 B. Lewis, *Genito-Urinary Diseases*.
 H. W. Loeb (Dean), *Throat Diseases*.
 V. Loeb, *Oral Surgery*.
 C. H. Neilson, *Medicine*.
 C. M. Nicholson, *Surgery*.
 A. G. Pohlman, *Anatomy*.
 D. M. Schoemaker, *Anatomy*.
 M. G. Seelig, *Surgery*.
 R. L. Thompson, *Pathology*.
 J. Zahorsky, *Children's Diseases*.

Associate Professors :

- C. E. Burford, *Genito-Urinary Diseases*.
 A. Kuntz, *Anatomy and Biology*.

Associate Professors—Continued :

- W. E. Leighton, *Surgery*.
 C. Smith, *Surgery and Surgical Pathology*.
 P. H. Swahlen, *Obstetrics and Gynecology*.

Assistant Professors :

- F. W. Bailey, *Surgery*.
 L. Boisliniere, *Medicine*.
 J. M. Brady, *Diseases of Children*.
 J. McH. Dean, *Surgery*.
 M. S. Fleisher, *Pathology and Bacteriology*.
 A. E. Horwitz, *Orthopedic Surgery*.
 E. E. Kurtzeborn, *Genito-Urinary Diseases*.
 G. Lippmann, *Children's Diseases*.
 S. T. Lipsitz, *Medicine*.
 H. S. McKay, *Surgery*.
 F. Neuhoff, *Medicine*.
 L. Rassieur, *Surgery*.
 H. J. Scherek, *Genito-Urinary Diseases*.
 F. J. Tainter, *Anatomy*.
 H. Wheelon, *Physiology*.
 W. S. Wiatt, *Surgery*.

SCHOOL OF DENTISTRY.

Professors :

- J. P. Harper (Dean).
 S. T. McMillin, *Dental Anatomy*.
 E. B. Owen, *Prosthetic Dentistry*.
 H. A. Rathbun, *Dental Pathology*.
 R. B. Rode, *Crown and Bridge Work*.
 F. C. Rodgers, *Orthodontia*.
 G. B. Winter, *Exodontia*.

SCHOOL OF DIVINITY.

Professors :

- Rev. R. S. Johnston, *Apologetics*.
 Rev. F. B. Klocker, *Dogmatic Theology*.
 Rev. L. A. Lilly, *Canon Law*.
 Rev. T. A. McCourt, *Sacred Scripture and Hebrew*.
 Rev. F. X. Mannhardt, *Ecclesiastical History*.
 Rev. F. J. O'Boyle (Dean), *Moral Theology*.
 Rev. B. J. Otten, *Dogmatic Theology*.
 Rev. W. F. Robison, *Apologetics*.
 Rev. J. L. Spaeth, *Dogmatic Theology and Hebrew*.

SCHOOL OF COMMERCE AND FINANCE.

Professors :

- F. C. Belsler, *Cost Accounting*.
 R. C. Brown, *Accounting*.
 Rev. J. L. Davis, *Public Speaking*.
 H. C. Dyer, *Law*.
 D. T. Farnham, *Industrial Engineering*.
 T. L. Gaulkel, *Commerce*.
 F. A. Thornton, *Economics*.
 G. W. Wilson, *Dean*.

Assistant Professors :

- A. F. Barnes, *Accounting*.
 H. L. Hunt "
 C. J. Kehoe, *Commerce*.
 J. E. King, *Law*.
 C. R. Laws, *Accounting*.
 R. F. McNally, *Finance*.
 J. Sheppard-Smith, *Finance*.
 E. H. Wagner, *Accounting*.

INSTITUTE OF LAW.**Professors :**

P. Bakewell, *Dean*.

Museum.—The University Museum.

Library.—The University Library. *Librarian:* Rev. C. H. Cloud, S.J. Each Department has a special library.

WASHINGTON UNIVERSITY, St. Louis, Mo., U.S.A. (1853.)

Terms: Two per year.

Students: 3,311, including School of Fine Arts, and those in Division of University Extension.

OFFICIALS.

President.—Robt. Somers Brookings.

Chancellor.—Frederic Aldin Hall.

Treasurer and Secretary to Corporation.—L. Kotany.

Degrees conferred.—Ph.D., A.M., M.Arch., A.B., B.S., C.E., E.E., M.E., LL.B., B.Arch., D.D.S., M.D.

COLLEGE OF ARTS AND SCIENCES.**Professors :**

- O. Heller, *German Language and Modern European Literature*.
 F. W. Shipley, *Latin*.
 E. J. Swift, *Psychology and Education*.
 G. Douay, *French Language and Literature*.
 H. Smith, *Drawing and History of Art*.
 R. G. Usher, *History*.
 W. E. McCourt, *Geology*.
 L. R. McMaster, *Chemistry*.
 W. H. Roever, *Pure Mathematics*.
 W. R. Mackenzie, *English*.
 L. Pyle, *Physics*.
 G. O. James, *Applied Mathematics*.
 W. M. Craigie, *Military Science and Tactics*.
 C. Gwer, *Geology*.
 G. Stephens, *Sociology*.

Associate Professors :

- W. H. Chenery, *Romanic Language*.
 C. E. Cory, *Philosophy*.
 G. I. Dale, *Spanish and Italian*.
 O. Dunkel, *Mathematics*.
 T. S. Duncan, *Greek and Latin*.

Assistant Professors :

- P. Seiberth, *German*.
 F. C. Walker, *English*.
 A. Taylor, *German*.
 T. R. Ball, *Chemistry*.
 J. H. Brown, *French*.

Professors—Continued :

- I. V. Barth, *Equity*.
 C. O. Bishop, *Criminal Law*.
 A. G. Eberle, *Contracts and Partnerships*.
 S. E. Edmunds, *International Law*.
 F. L. English, *Torts and Corporations*.
 J. H. Grimm, *Civil Procedure*.
 Rev. L. A. Lilly, *Roman and Canon Law*.
 J. McDonald, *Constitutional Law*.
 A. H. Robbins, *Real Property*.
 W. F. Woerner, *Wills*.

Assistant Professors—Continued :

- P. R. Rider, *Mathematics*.
 F. B. Hanson, *Zoology*.
 L. F. Thomas, *Geology*.
 C. Stephenson, *History*.
 O. H. Pierce, *Chemistry*.
 W. D. Shipton, *Geology*.
 W. W. Hollingsworth, *Political Science*.
 F. M. Webster, *English*.
 E. Tavener, *Latin and Greek*.
 R. R. Hollingsworth, *Education*.
 C. F. Hagenow, *Physics*.
 R. P. Bieber, *History*.
 R. F. Jones, *English*.
 F. P. Hardaway, *Military Science and Tactics*.
 C. E. Cullen, *Economics*.
Directors of Physical Training for Men and Women, 15 Instructors, 2 Lecturers, 2 Teaching Fellows, 11 Assistants.

SCHOOLS OF ENGINEERING AND ARCHITECTURE.**Professors :**

- J. L. Van Ornum, *Civil Engineering*.
 A. S. Langsdorf, *Electrical Engineering*.
 E. L. Ohle, *Mechanical Engineering*.
 G. Ferrand, *Design*.

Associate Professors :

- F. A. Berger, *Mechanical Engineering*.
 H. G. Hake, *Electrical Engineering*.
 E. O. Sweetser, *Civil Engineering*.
 L. Hill, *Architecture*.

Assistant Professors :

- A. E. Fitch, *Architectural Construction.*
 F. W. Bubb, *Applied Mathematics.*
 7 Instructors, 1 Assistant.

SCHOOL OF COMMERCE AND FINANCE.

Professors :

- W. F. Gephart, *Economics.*
 G. E. Putnam, *Banking and Finance.*
 I. Lippincott, *Economics.*
 W. S. Krebs, *Accounting.*

Associate Professors :

- C. E. Persons, *Sociology.*
 1 Lecturer, 10 Special Lecturers.

SCHOOL OF BOTANY.

Professors :

- G. T. Moore, *Botany.*
 B. M. Duggar, *Plant Physiology.*
 J. M. Greenman, *Botany.*
 E. A. Burt, *Botany.*
 2 Teaching Fellows.

THE SCHOOL OF LAW.

Professors :

- T. Williams, *Commercial Law.*
 J. H. Zumbalen, *Law.*
 E. B. Conant, *Law.*
 5 Lecturers.

SCHOOL OF MEDICINE.

Professors :

- J. B. Shapleigh, *Otology.*
 G. Doek, *Medicine.*
 J. Erlanger, *Physiology.*
 E. L. Opie, *Pathology.*
 P. A. Shaffer, *Biological Chemistry.*
 R. J. Terry, *Anatomy.*
 L. Loeb, *Comparative Pathology.*
 W. McK. Marriott, *Pediatrics.*
 E. A. Graham, *Surgery.*
 E. K. Marshall, jr., *Pharmacology.*
 H. Schwarz, *Obstetrics.*
 P. Y. Tupper, *Surgery.*

Museum.—A Dental Museum.

Libraries.—

- Arts and Sciences, 85,000 volumes, 14,000 pamphlets.
 Botany, 36,000 volumes, 47,000 pamphlets.
 Law School, 20,000 volumes.
 Medical, 26,680 volumes.
 Dental, 6,000 volumes.
 Fine Arts, 2,330 volumes, 2,200 pamphlets.

Librarians : J. A. McMullen, R. H. McRoberts, Miss E. B. Lawrence, Miss L. G. Glaser.

AFFILIATED INSTITUTION.

Mary Institute: a secondary school for girls.

CONCORDIA THEOLOGICAL SEMINARY, St. Louis, Mo., U.S.A. (1839.)

Terms : September to June.

Students : 378.

Budget : Expenses are defrayed by Evangelical Lutheran Synod of Missouri, Ohio, and other States.

Professors Continued :

- F. R. Fry, *Neurology.*
 H. G. Mudd, *Surgery.*
 G. M. Tuttle, *Pediatrics.*
 E. S. Smith, *Medicine.*
 A. E. Ewing, *Ophthalmology.*
 G. Sluder, *Laryngology and Rhinology.*
 M. F. Engman, *Dermatology.*
 B. S. Veeder, *Clinical Pediatrics.*
 E. Sachs, *Clinical Neurological Surgery.*
 N. Allison, *Clinical Orthopedic Surgery.*
 S. I. Schwab, *Clinical Neurology.*

Associate Professors :

- G. C. Robinson, *Medicine.*
 A. E. Taussig, *Clinical Medicine.*
 C. H. Danforth, *Anatomy.*
 P. C. Jeans, *Pediatrics.*
 M. T. Burrows, *Pathology.*
 1 Lecturer, 20 Associates, 29 Instructors, 42 Assistants.

SCHOOL OF DENTISTRY.

Professors :

- J. H. Kennerly, *Clinical Dentistry and History of Dentistry.*
 W. M. Bartlett, *Prosthetic Dentistry.*
 B. E. Lischer, *Orthodontics.*
 B. N. Pippin, *Operative Dentistry.*
 O. H. Campbell, *Physiology.*
 V. P. Blair, *Oral Surgery.*
 J. E. Cook, *Bacteriology and General Pathology.*
 E. P. Brady, *Chemistry, Materia Medica, Metallurgy, Pathology, and Therapeutics.*
 M. Pitzman, *Anatomy.*

Associate Professors :

- J. D. White, *Prosthetic Dentistry.*
 L. G. Neuhoff, *Dental Anatomy.*
 5 Instructors, 4 Lecturers, 3 Assistants.

SCHOOL OF FINE ARTS.

Director : E. H. Wuerpel.
 10 Instructors.

OFFICIALS.

President.—Rev. Prof. F. Pieper, D.D.

Librarian.—Rev. Prof. E. Pardieck.

Staff of 8 Professors.

AFFILIATED INSTITUTIONS.

Eight preparatory colleges at Fort Wayne, Ind.; Milwaukee, Wis.; St. Paul, Minn.; Concordia, Mo.; Bronxville, N.Y.; Winfield, Kans.; Conover, N. Carolina.; Oakland, Cal.

THE MISSOURI BOTANICAL GARDEN, St. Louis, Mo.

Missouri Botanical Garden, founded by Henry Shaw. Extensive indoor and outdoor collections of about 11,000 plants.

OFFICIALS.

Director.—G. T. Moore.

E. A. Burt, *Mycologist.*

B. M. Duggar, *Physiologist in charge of
Graduate Laboratory.*

H. Von Schrenk, *Pathologist.*

J. M. Greenman, *Curator of Herbarium.*

G. H. Pring, *Floriculturist.*

Library.—82,526 books, 832,526 herbarium specimens. Laboratories for graduate work in botany. *Librarian:* E. A. Burt.

ST. LOUIS OBSERVATORY. *See* ST. HELIER.

ST. MICHAEL'S COLLEGE. *See* TORONTO.

ST. PAUL (Minnesota).

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—R. W. Thatcher.

ST. PAUL'S COLLEGE. *See* CALCUTTA.

ST. STEPHEN'S COLLEGE. *See* DELHI.

SANATAM DHARAM COLLEGE. *See* LAHORE.

SAN JOSE (California).

COLLEGE OF THE PACIFIC, San Jose, California. (1851.)

Terms: Two per year.

Students: 410.

OFFICIALS.

President.—Tully Cleo Knoles, A.M., D.D.

Dean.—A. M. Kline, Ph.D.

Registrar.—C. E. Corbin, A.M.

Degrees conferred.—A.B., B.M.

PROFESSORS.

COLLEGE OF LIBERAL ARTS.

Professors :

A. M. Kline, *History and Political
Science.*

J. W. Harris, *Education.*

C. M. Cox (Miss), *German.*

H. B. Schwartz, *English.*

A. Bonner, *Philosophy.*

F. L. Farley, *Ancient Languages.*

E. K. Owen (Mrs.), *Economics.*

S. Rykoff (Miss), *Spanish.*

W. Schwartz, *French.*

COLLEGE OF SCIENCE.

Professors :

L. S. Kroeck, *Biology.*

S. R. Cook, *Mathematics, Physics, and
Astronomy.*

R. Neal, *Chemistry and Geology.*

C. E. Corbin, *Engineering and Applied
Mathematics.*

3 Instructors and 2 Teaching Fellows.

CONSERVATORY OF MUSIC.

Professors :

H. H. Hanson, *Theory and Composition.*

C. M. Dennis, *Public School Music.*

12 Assistants.

Post-Graduate Courses.—In Music and Expression.

Library.—The original library was destroyed by fire in 1914. The present library contains about 8,000 volumes.

Institute.—A well-equipped observatory.

AFFILIATED INSTITUTE.

Conservatory of Music, San Jose.

SANTA CLARA (California).

OBSERVATORY OF SANTA CLARA, Santa Clara, California.

Director.—J. I. Ricard.

The Observatory of Santa Clara deals in Astronomy, Meteorology, and Seismology. Established 1900. Publishes daily and monthly forecasts of the weather, also an occasional Seismological Bulletin.

Main object of the Observatory has been "Relation of Sun-spots to Weather." Remarkable discoveries have been published in Observatory Magazine called "Sun-spot."

SANTA FE (New Mexico).

SCHOOL OF AMERICAN RESEARCH, Santa Fe, New Mexico.

Budget: \$28,000.

OFFICIALS.

Director.—E. L. Hewett.

Acting Director.—P. A. F. Walter.

8 Associates.

Libraries.—

The Finck Linguistic Library.

Library of the New Mexico Historical Society.

Archeological and Anthropological Library.

Institute and Society.—

Santa Fe Society of the Archeological Institute of America.

New Mexico Archeological Society.

AFFILIATED INSTITUTIONS.

Museum of New Mexico, Santa Fe, N.M.

The San Diego Museum, San Diego, California.

SASKATOON (Canada).

UNIVERSITY OF SASKATOON, Saskatoon, Canada. (1907.)

Terms: Two per year.

Students: 480.

Budget: For current expenses, \$290,000.

OFFICIALS.

Chancellor.—Sir F. W. G. Haultain, LL.D.

President.—W. C. Murray, LL.D.

Registrar.—A. R. Weir, B.A.

Degrees conferred.—B.A., white; B.Sc., slate blue; B.S. (Agr.), light blue; B.E. (Engin.), maroon; B.Acc. (Accounting), silver grey; B.S.P. (Phar.), brown; LL.B., gold.

FACULTIES OR DEPARTMENTS.

Dean of the Faculty of Arts and Science.—G. H. Ling, Ph.D.

Dean of the Faculty of Agriculture.—W. J. Rutherford, B.S.A.

Acting Dean of the Faculty of Law.—A. Moxon, B.C.L.

Acting Dean of the Faculty of Engineering.—C. J. Mackenzie, M.C.E.

Professor in Charge of the School of Pharmacy.—A. Campbell.

Professor in Charge of the School of Accounting.—J. Neilson.

PROFESSORS.

FACULTY OF ARTS AND SCIENCES.

Professors :

- W. P. Thompson, *Biology*.
 J. S. Dexter
 R. D. MacLaurin, *Chemistry*.
 T. Thowaldson
 W. W. Swanson, *Economics*.
 R. A. Wilson, *English*.
 W. D. Thomas
 A. S. Morton, *History*.
 F. H. Underhill
 W. Ramsay, *Greek*.
 W. G. Sullivan, *Latin*.
 J. A. Macdonald, *French*.
 J. W. Eaton, *German*.
 M. J. Munro, *Hebrew*.
 G. H. Ling, *Mathematics*.
 L. L. Dines
 T. N. Willing, *Natural History*.
 J. A. Sharrad, *Philosophy*.
 J. L. Hogg, *Physics*.
 J. M. Adams
 11 Lecturers.

FACULTY OF AGRICULTURE.

Professors :

- W. J. Rutherford, *Agriculture*.
 A. M. Shaw, *Animal Husbandry*.
 H. J. Tisdale
 „ „

Post-Graduate Courses.—For M.A., M.Sc., and M.S.A.

Library.—25,000 volumes. *Librarian*: A. S. Morton. *Assistant Librarian*: Miss A. M. Mackay.

AFFILIATED INSTITUTIONS.

- Emmanuel College, Saskatoon.
 St. Thad's College, Regina.
 Presbyterian Theological College, Saskatoon.

SEALE HAYNE AGRICULTURAL COLLEGE. See NEWTON ABBOT.

SERAMPORE (India).

SERAMPORE COLLEGE, Serampore, Bengal, India. (1818.)

Incorporated by Royal Charter, 1827.

Office of the College Council: 19, Furnival St., E.C.

Theological Senate operates under the Charter.

Affiliated to the University of Calcutta, in Arts.

Terms : Three a year.

Students : 351.

OFFICIALS.

Principal and President of the Faculty.—Rev. G. Howells, M.A., B.D., B.Litt., Ph.D.

Vice-Principal and Registrar.—Rev. John Drake, M.A., B.D.

STAFF.

HIGHER THEOLOGICAL DEPARTMENT.

Professors :

- G. Howells, *History of Religions and Sanskrit Religious Literature*.
 J. Drake, *Theology and Moral Philosophy*.
 S. C. Mukerji, *Church History*.
 J. N. Rawson, *Philosophy of Religion and Natural Science*.

Professors—Continued :

- W. S. Lindsay, *Bacteriology and Pathology*.
 A. K. Greig, *Engineering (Agricultural)*.
 J. Smith
 E. A. Hardy
 K. G. Mackay, *Dairying*.
 A. E. Potts
 J. Bracken, *Field Husbandry*.
 R. R. Baker, *Poultry*.
 2 Lecturers.

FACULTY OF LAW.

Professors :

- A. Moxon, *Law*.
 I. A. Mackay, *Law*.
 4 Lecturers.

FACULTY OF ENGINEERING.

Professor :

- C. J. Mackenzie, *Civil Engineering*.

SCHOOL OF PHARMACY.

Professor :

- A. Campbell, *Pharmacy*.

SCHOOL OF ACCOUNTING.

Professor :

- J. Neilson, *Accounting*.

ARTS DEPARTMENT.

The above Professors teach in the Arts Department.

Lecturers :

- J. N. Chuckerburty, *English.*
- D. N. Ghosal, *Philosophy.*
- N. N. Mukerji, *History.*
- H. P. Sen Gupta, *Sanskrit.*

Lecturers—Continued :

- K. K. Mukerji, *Mathematics.*
- A. K. Bhattacharyya, *Sanskrit.*
- D. Banerji, *Political Economy.*
- A. K. Ghose, *English.*
- A. Chowdhuri, *History.*
- P. K. Vidyabinod, *Sanskrit.*
- H. N. Ray, *Chemistry.*
- 1 Demonstrator.

Library.—A Library of 12,000 works with some valuable Sanskrit Catalogues, early Reviews, and other items of special interest and value.

SHEFFIELD.

THE UNIVERSITY OF SHEFFIELD, Western Bank and St. George's Square, Sheffield. (1905.)

Terms : Three per year.

Students (1917-18): 468.

OFFICIALS.

Chancellor.—The Most Hon. the Marquess of Crewe, K.G.

Pro-Chancellors.—Col. H. K. Stephenson, D.S.O., M.P., LL.D., J.P.

Vice-Chancellor.—Sir W. H. Hadow Knight, M.A., D.Mus.

Treasurer.—D. Vickers, M.P., J.P.

Registrar.—W. M. Gibbons, M.A.

Dean of the Faculty of Arts.—Prof. Leahy, M.A.

Dean of the Faculty of Pure Science.—Prof. Wynne, D.Sc., F.R.S.

Dean of the Faculty of Medicine.—Prof. Leathes, M.A., M.B., F.R.C.S., F.R.S.

Dean of the Faculty of Law.—Prof. Trotter, M.A., LL.D., K.C.

Dean of the Faculty of Engineering.—Prof. Ripper, C.H., D.Eng., D.Sc., M.Inst., C.E., J.P.

Degrees conferred :

Degrees.

- B.A. - - - Green stuff, lined with white fur, edged with crushed strawberry.
- B.Eng. - - - Green stuff, lined with white fur, edged with purple.
- B.Met. - - - Green stuff, lined with white fur, edged with steel grey.
- B.Sc. - - - Green stuff, lined with white fur, edged with apricot.
- M.B., Ch.B. - - - Green stuff, lined with white fur, edged with red.
- Ch.M. - - - Green silk, lined with red, edged with white.
- D.Eng. - - - Red silk, lined with purple.
- D.Met. - - - Red silk, lined with steel grey.
- D.Sc. - - - Red silk, lined with apricot.
- Litt.D. - - - Red silk, lined with crushed strawberry.
- LL.B. - - - Red silk, lined with pale green.
- LL.D. - - - Green silk, lined with pale green.
- M.A. - - - Green silk, lined with crushed strawberry.
- M.D. - - - Red silk, lined with red.
- M.Eng. - - - Green silk, lined with purple.
- M.Met. - - - Green silk, lined with steel grey.
- M.Sc. - - - Green silk, lined with apricot.

Hoods.

PROFESSORS.

FACULTY OF ARTS.

Professors :

- W. C. Summers, *Latin.*
- C. G. M. Smith, *English Languages and Literature.*
- A. T. Baker, *French.*
- H. W. Appleton, *Ancient and Modern History.*
- A. H. Leahy, *Mathematics.*
- J. A. Green, *Education.*
- W. Rothenstein, *Civic Art.*

Lecturers :

- E. S. Forster, *Greek.*
- F. Whitehead (Miss), *Latin.*
- J. D. Jones, *English Language and Literature.*
- L. A. Willoughby, *German.*
- G. A. Birkett, *Russian.*
- J. N. Birch, *Spanish.*
- L. V. D. Owen, *Ancient and Modern History.*
- M. Perham (Miss), *Ancient and Modern History.*

Lecturers—Continued :

- B. M. Laing, *Philosophy*.
 D. Knoap, *Economics*.
 T. E. Shuttleworth, *Accounting*.
 W. A. Bone (Miss), *Education*.
 E. M. A. King (Miss) "
 W. Vickers, *Education*. "
 H. Coward, *Music*.
 W. S. Purchon, *Architecture*.
 5 Assistant Lecturers, 4 Honorary Lecturers.

FACULTY OF PURE SCIENCE.**Professors :**

- A. H. Leahy, *Mathematics*.
 S. R. Milner, *Physics*.
 W. P. Wynne, *Chemistry*.
 A. Denny, *Zoology*.
 J. B. Leathes, *Physiology*.
 W. G. Fearnside, *Geology*.
 J. A. Green, *Education*.

Lecturers :

- R. S. Thompson (Engineering Department), *Mathematics*.
 L. Southern, *Physics*.
 W. E. Curtis "
 J. Kenner, *Chemistry*.
 A. S. Russell, *Physical Chemistry*.
 B. H. Bently, *Botany*.
 E. C. Eaves (Miss), *Physiology*.
 W. H. Wilcockson, *Geology*.
 J. R. Thompson, *Education*.
 E. M. A. King (Miss), *Education*.
 W. A. Bone (Miss) "
 W. Vickers, *Education*.
 R. N. R. Brown, *Geography*.
 9 Assistant Lecturers, 2 Demonstrators.

FACULTY OF MEDICINE.**Professors :**

- W. P. Wynne, *Chemistry*.
 S. R. Milner, *Physics*.
 A. Denny, *Biology*.
 C. J. Patton, *Anatomy*.
 J. B. Leathes, *Physiology*.
 A. J. Hall, *Medicine*.
 A. Connell, *Surgery*.
 J. S. C. Douglas, *Pathology*.
 P. E. Barber, *Midwifery*.
 H. Scurlfield, *Public Health*.

Lecturers :

- J. Kenner, *Organic Chemistry*.
 A. S. Russell, *Physical Chemistry*.
 L. Southern, *Physics*.
 W. E. Curtis "
 L. Naish (Mrs.), *Osteology*.
 E. C. Eaves (Miss), *Physiology*.
 A. E. Barnes, *Medicine*.
 A. E. Naish "
 G. Simpson, *Surgery*.
 A. Cuff, *Surgery*.
 M. H. Phillips, *Diseases of Women*.

Lecturers—Continued :

- A. E. Barnes, *Materia Medica, Pharmacology, and Therapeutics*.
 G. H. Pooley, *Ophthalmology*.
 G. Wilkinson, *Diseases of the Ear, Nose, and Throat*.
 E. H. Williams, *Infectious Diseases*.
 W. Vincent, *Mental Diseases*.
 H. Leader, *Diseases of Children*.
 D. G. Newton, *Vaccination*.
 6 Assistant Lecturers, 7 Demonstrators.

FACULTY OF LAW.**Professors :**

- W. F. Trotter, *Law*.
 H. W. Appleton, *Constitutional History*.

Lecturers :

- O. K. Metcalfe, *Public and Common Law*.
 D. Knoop, *Economics*.
 T. E. Shuttleworth, *Accounting*.
 1 Assistant Lecturer.

FACULTY OF ENGINEERING.**Professors :**

- W. Ripper, *Mechanical Engineering*.
 F. E. Armstrong, *Mining Engineering*.
 L. T. O'Shea, *Applied Chemistry*.
 A. H. Leahy, *Mathematics*.
 S. R. Milner, *Physics*.
 W. P. Wynne, *Chemistry*.
 W. G. Fearnside, *Geology*.

Lecturers :

- F. Boulden, *Mechanical Engineering*
 J. W. Kershaw " "
 W. G. Hibbins " "
 C. W. Waite " "
 G. W. Burley " "
 E. H. Crapper, *Electrical Engineering*.
 T. F. Wall " "
 J. Husband, *Civil Engineering*.
 I. E. F. Stalham, *Mining Engineering*.
 A. E. Findley, *Applied Chemistry*.
 R. S. Thompson (Engineering Department), *Mathematics*.
 L. Southern, *Physics*.
 W. E. Curtis "
 J. Kenner, *Organic Chemistry*.
 A. S. Russell, *Physical Chemistry*.
 W. S. Purchon, *Building Construction*.
 W. E. S. Turner, *Glass Technology*.
 J. H. Davidson " "
 S. English " "
 1 Hon. Lecturer, 9 Assist. Lecturers.
 3 Demonstrators, 5 Research Assistants.

FACULTY OF METALLURGY.**Professors :**

- Vacant, *Ferrous and Non-Ferrous Metallurgy*.
 A. H. Leahy, *Mathematics*.
 S. R. Milner, *Physics*.
 W. P. Wynne, *Chemistry*.

Lecturers :

F. K. Knowles, *Ferrous and Non-Ferrous Metallurgy.*
 F. Ibbotson, *Ferrous and Non-Ferrous Metallurgy.*
 J. H. Wreaks, *Ferrous and Non-Ferrous Metallurgy.*
 G. B. Brook, *Ferrous and Non-Ferrous Metallurgy.*

Lecturers—Continued :

F. C. Thompson, *Ferrous and Non-Ferrous Metallurgy.*
 R. S. Thompson (Engineering Department), *Mathematics.*
 L. Southern, *Physics.*
 W. E. Curtis
 J. Kenner, *Organic Chemistry.*
 A. S. Russell, *Physical Chemistry.*

7 Assistant Lecturers, 4 Demonstrators.

Post-Graduate Courses—Faculty of Arts.—Post-Graduate Courses are held leading up to the Diploma in Education, and the Diploma in Modern Language Teaching.

Faculty of Medicine.—The University awards a Diploma in Public Health, and Courses for the Diploma are held.

Degree of Doctor of Philosophy.—The Degree of Doctor of Philosophy (Ph.D.) is awarded in the Faculty of Arts, Pure Science, Law, Engineering, and Metallurgy. This degree is awarded on Post-Graduate study and Graduates of the University of Sheffield, and other approved Universities are eligible for this degree.

Library.—The Edgar Allen Library, 58,000 volumes.

Museums.—Of Anatomy and Anthropology, Pathology, Zoology, Botany. *Curator* A. J. Hall, M.A., M.D.

University Observatory. *Curator* : A. H. Leahy, M.A.

SIALKOT (India).

MURRAY COLLEGE, Sialkot, Punjab. (1889.)

Affiliated to the University of the Punjab, Lahore.

Students : 150.

OFFICIALS.

Principal.—Rev. W. Scott, M.A., B.D.

Vice-Principal.—J. Garrett, M.A.

10 Professors.

SIBPUR (India).

THE CIVIL ENGINEERING COLLEGE, Sibpur, Bengal. (1880.)

Sessions : One yearly.

Students : 350.

Budget : Rs. 2,80,000. The Funds are provided entirely by the Government of Bengal.

OFFICIAL.

Principal.—B. Heaton.

Degrees and Hoods.—As specified by Calcutta University.

PROFESSORS.

Professors :

T. H. Richardson, *Civil Engineering.*
 E. H. Robertson, *Mining Engineering.*
 B. C. Gupta, *Electrical Engineering.*
 (Vacant), *Mechanical Engineering.*
 A. MacDonald, *Physics and Mathematics* (Acting).

Professors—Continued :

S. M. Maitra, *Physics and Mathematics.*
 W. Saunders, *Chemistry.*

Assistant Professors :

J. V. Frances, *Drawing.*
 P. C. Ganguli, *Mechanical Engineering.*
 4 Instructors, 2 Teachers, 4 Demonstrators, 1 Visiting Lecturer.

Library.—Contains 10,000 books. *Librarian* : W. Saunders.

ROYAL BOTANIC GARDEN.

Under the Government of Bengal.

Founded 1787. Extent 273 acres. Situated on the right bank of the river Hughli, about four miles south-west of Calcutta. The Eden Gardens, Dalhousie

Square Garden, and Curzon Garden in the city of Calcutta, also the Lloyd Botanic Garden in Darjeeling, and the Cinchona Plantations and Quinine Factory of the Government of Bengal, are also attached to it for administrative purposes. The Royal Botanic Garden, Calcutta, is the headquarters of the Botanical Survey of India, under which is the Industrial Section of the Indian Museum in Calcutta.

The Garden contains the largest herbarium (nearly a million sheets) and botanical library in the Indian Empire. The herbarium is particularly rich in Indian species of flowering plants, but the flora of other regions of the world is also fairly represented in it.

STAFF OF THE ROYAL BOTANIC GARDEN.

Sibpur, Calcutta.

Superintendent.—Lieut.-Colonel A. T. Gage, I.M.S., M.A., B.Sc., M.B., C.M., F.L.S., F.A.S.B.

Acting Superintendent.—C. C. Calder, B.Sc., B.Sc. (Agric.).

Curator of the Herbarium.—C. C. Calder, B.Sc., B.Sc., F.L.S.

Curator of the Garden.—G. T. Lane.

Acting Curator of the Garden.—P. V. Osborne.

LLOYD BOTANIC GARDEN, Darjeeling.

Superintendent.—Lieut.-Colonel A. T. Gage, I.M.S.

Acting Superintendent.—C. C. Calder, B.Sc., B.Sc. (Agric.).

Curator.—G. H. Cave.

CINCHONA PLANTATIONS.

Superintendent.—Lieut.-Colonel A. T. Gage, I.M.S.

Acting Superintendent.—C. C. Calder, B.Sc., B.Sc. (Agric.).

Government Quinologist.—G. E. Shaw, B.Sc., F.I.C., F.C.S.

Assistant Quinologist.—(Vacant.)

Manager of Mungpoo Plantation.—P. T. Russell.

Acting Manager of Mungpoo Plantation.—H. Thomas.

BOTANICAL SURVEY OF INDIA.

Director and Officer in Charge of the Industrial Section, Indian Museum.—Lieut.-Colonel A. T. Gage, I.M.S.

Acting Director.—C. C. Calder, B.Sc., B.Sc. (Agric.).

Economic Botanist.—H. G. Carter, M.B., Ch.B.

Assistant Botanist.—P. M. Debburman.

Assistant Botanist.—V. Narayanaswami.

SIMLA (India).

BUREAU OF EDUCATION, Simla, India.

Educational Commissioner with the Government of India.—The Hon. H. Sharp, C.S.I., C.I.E.

Curator (Bureau of Education).—G. R. Kaye.

Assistant.—Fazl Elahi Quraishi.

Librarian.—M. N. Basu.

The Library contains about 100,000 volumes.

Publications.—Some of the recent publications of the Bureau of Education:

Progress of Education in India, 1912-17. Seventh Quinquennial Review (2 volumes).

Annual Narratives (Indian Education, 1913-1918).

Occasional Reports, Nos. 1-8.

Pamphlets, Nos. 1-7.

INDIAN METEOROLOGICAL DEPARTMENT, Simla, India.

Founded in 1876 by the Government of India with the object of co-ordinating and developing the meteorological, astronomical, and magnetic work previously carried on by the Local Governments. Seismology has since been added to its activities.

GAZETTED OFFICERS.

Director-General of Observatories.—G. T. Walker, C.S.I., M.A., Sc.D., F.R.S.

Director of the Aerological Observatory, Agra.—J. H. Field.

Assistant Director of the Aerological Observatory, Agra.—W. A. Harwood.

Director of the Kodaikanal and Madras Observatories.—J. Evershed.

Assistant Director of the Kodaikanal and Madras Observatories.—T. Royds.

Director of the Bombay and Alibag Observatories.—T. K. Chinmayanandam.

Imperial Meteorologists.

G. C. Simpson.

C. W. B. Normand.

Rai Bahadur Hem Raj.

Meteorologists :

E. P. Harrison.

H. M. Finch.

R. Ll. Jones.

DEPARTMENTAL OBSERVATORIES AND OFFICES.

The Central Offices are at Simla, from which a weather report for the whole of the Indian area is published daily. Provincial offices exist at Calcutta, Bombay, and Madras, from which daily weather reports relating to portions of India are issued. There are first-class observatories at Calcutta, Bombay, Madras, Kodaikanal, and Lahore; third-class observatories at 181 stations; fourth class at 23; and fifth class at 24. In addition to the above there are 38 observatories maintained at the expense of Indian States and working in conjunction with the Imperial Department; these stations regularly supply data to the head office at Simla and comprise 2 first-class observatories (Bangalore and Jaipur); 2 second class; 26 third class; 5 fourth class; and 3 fifth class observatories.

Periodical Publications.—

Daily, Weekly, Monthly, and Annual Weather Reports.

Magnetic and Meteorological Results (annual) of the Colaba Observatory.

Non-Periodical Publications.—

Indian Meteorological Memoirs.

Bulletins and Memoirs of the Kodaikanal Observatory.

SIOUX CITY (Iowa).

THE ACADEMY OF SCIENCE AND LETTERS, Public Library Building, Sioux City, Iowa. (1885.)

The Academy meets bi-monthly from October to May. The sections comprise Art, Physical Research, Municipal Research, Political Science, Ornithology, and Local History.

Publishes Proceedings.

SITKA (Alaska).

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—C. C. Georgeson.

SMITH COLLEGE. See NORTHAMPTON.

SOUTHAMPTON.

UNIVERSITY COLLEGE, Southampton. (1902.)

Terms : Three a year.

OFFICIALS.

Principal.—A. Hill, M.A., M.D., F.R.C.S.

Registrar.—D. Kiddle.

Librarian.—Miss B. E. Horneyer.

PROFESSORS.

Professors :

W. F. Mason, *Classics and English Literature.*

E. S. Lyttel, *History and Political Economy.*

Professors—Continued :

(Vacant), *Romance Languages.*

E. L. Watkin, *Mathematics.*

H. Stansfield, *Physics and Electrical Engineering.*

Professors—Continued :

D. R. Boyd, *Chemistry*.
G. K. Sutherland, *Biology and Geology*.

Professors—Continued :

J. Eustice, *Civil and Mechanical Engineering*.
J. Shelley, *Education*.

20 Lecturers.

SOUTH AUSTRALIA, ROYAL SOCIETY OF. See ADELAIDE.

SOUTH DAKOTA SCHOOL OF MINES. See RAPID CITY.

SOUTH-EASTERN AGRICULTURAL COLLEGE. See WYE.

SOUTHERN CALIFORNIA ACADEMY OF SCIENCE. See LOS ANGELES.

SOUTHERN CALIFORNIA UNIVERSITY. See LOS ANGELES.

SOUTH HADLEY (Massachusetts).

MOUNT HOLYOKE COLLEGE, South Hadley, Mass. (1837.)

Terms : Two semesters.

Students : 857.

Budget : \$601,061.15.

OFFICIALS.

President.—Miss M. E. Woolley, M.A., Litt.D., L.H.D., LL.D.

Dean.—Miss F. Purington, S.B., Litt.D.

Registrar.—Miss Caroline Greene, A.M.

Assistant Registrar.—Miss E. S. Dickinson, A.B.

Treasurer.—W. B. Adams.

Degrees conferred.—B.A., M.A., Hoods lined with pale blue, the College colour.

PROFESSORS.

FACULTY OF ARTS.

Professors :

C. F. Stevens (Miss), *English*.
E. C. Hinsdale (Miss), *German Language and Literature*.
M. G. Williams (Miss), *Greek Language and Literature*.
H. M. Searles (Miss), *Latin Language and Literature*.
W. C. Hammond, *Music*.
E. B. Talbot (Miss), *Philosophy*.
M. V. Young (Miss), *Romance Languages and Literatures*.
N. Neilson (Miss), *History and Political Science*.
A. Hewes (Miss), *Economics and Sociology*.
C. A. Scott, *Education*.
J. B. Dickinson (Miss), *Music*.
H. W. Narey (Miss), *Physical Education*.
J. M. Warbeke, *Philosophy*.
M. G. Cushing (Miss), *Spanish*.
M. I. Hussey (Miss), *Biblical Literature*.
A. H. Morgan (Miss), *Zoology*.
L. H. Wild (Miss), *Biblical Literature*.

Associate Professors :

A. P. Stevens (Miss), *German*.
H. C. Flint (Miss), *Greek*.
M. Ball (Miss), *English*.
A. L. F. Snell (Miss), *English*.
H. E. Hoag (Miss), *Latin*.

Associate Professors—Continued :

E. D. Ellis (Miss), *History and Political Science*.
E. Rivillé-Rensch (Miss), *French*.
I. C. Couch (Miss), *Speech*.
C. M. Galt (Miss), *Archeology*.
A. C. Harper (Miss), *English Literature*.
B. T. Putnam (Miss), *History*.
G. M. Baeon (Miss), *German*.
A. M. Tucker, *Music*.
M. S. Morriss (Miss), *History*.
M. E. Taylor (Miss), *Latin*.
G. S. Hyde (Miss), *Art*.
D. Foster (Miss), *English Literature*.
H. M. Cady (Miss), " "
F. W. Foss (Miss), *Art*.
A. P. Comstock, *Economics and Sociology*.
M. C. Waites (Miss), *Latin*.

Assistant Professors :

F. L. Adams (Miss), *English*.
H. Griffith (Miss), " "
R. Waterman (Miss), *Physical Education*.

FACULTY OF SCIENCE.

Professors :

S. E. Smith (Miss), *Mathematics*.
E. R. Laird (Miss), *Physics*.
M. Talbot (Miss), *Geology*.
S. P. Hayes, *Psychology*.
A. H. Turner (Miss), *Physiology*.

Professors—Continued :

E. P. Carr (Miss), *Chemistry*.
 A. G. Stokey (Miss), *Botany*.
 A. S. Young, (Miss), *Astronomy*.

Associate Professors :

E. C. Doak, (Miss), *Mathematics*.
 D. A. Hahn (Miss), *Chemistry*.
 M. A. Chase (Miss), *Physics*.
 E. N. Martin (Miss), *Mathematics*.

Librarian : Miss B. E. Blakely, B.A. *Assistant Librarian* : Miss F. E. Haynes, L.B.
Society.—A chapter of Phi Beta Kappa Society.

Museums.—

Botanical Gardens. *Director* : Asa Kinnery, S.M.
 Botanical Museum. *Curator* : Miss J. S. Agard, A.M.
 Chemistry Laboratories. *Curator* : Miss E. R. Barshed, A.B.

SOUTH YARRA (Victoria).

MELBOURNE OBSERVATORY, South Yarra, Victoria, Australia. (1863.)

Annual Expenditure, £3,200.

Government Astronomer.—J. M. Baldwin, M.A., D.Sc.

Chief Assistant.—C. J. Merfield.

Five professional assistants.

Astronomical, Magnetic, and Seismological Observatory under the Victorian State Government. Carries out also the testing of inspector's copies of the standard weights and measures.

The Magnetic Station is now at Toolangi, 38 miles N.E. of Melbourne.

Library.—10,000 volumes.

NATIONAL HERBARIUM OF VICTORIA, South Yarra.

STAFF.

Government Botanist.—A. J. Ewart, D.Sc., Ph.D.

Assistants.—J. R. Tovey, J. W. Audas.

Attached.—Miss E. Archer, M.Sc., Secretary to the Commonwealth Seed Improvement Committee.

Annual Maintenance, £1,200.

Library.—Comprises over 10,000 volumes.

The Herbarium contains a million and a half of sheets of specimens including 135,000 species. The Herbarium contains the major portion of the material on which Bentham's Flora of Australia was founded and also collections by Petiver, Banks and Solander, Robert Brown, Drummond, Sonder, Hooker, Baron F. V. Mueller, Siefer Forrest, Giles, etc.

SPRINGFIELD (Illinois).

ILLINOIS STATE MUSEUM, Springfield, Ill., U.S.A.

OFFICIALS.

Chief.—A. R. Crook, Ph.D.

Assistant Curator.—Miss F. Fisher.

Custodian.—R. Taylor.

Budget (1919-1921): \$26,000.

100,000 specimens, mostly geological; 600 type invertebrate fossils; several notable zoological and ethnological groups in large cases.

Library.—10,000 volumes.

Publications.—Guide-books, reports, special papers.

Repository of Illinois State Academy of Science.

SRINAGAR (Kashmir).

¹ **SRI PARATAP COLLEGE**, Srinagar, Kashmir. (1905.)

Univ. Coll. Digitized by eGangotri
 Affiliated to the University of the Punjab. (19)

OFFICIALS.

Principal.—Pt. Quabal Kishan Shargha, B.A., F.A.U.*Librarian.*—Pt. A. Nath, B.A.

PROFESSORS.

Pt. Q. K. Shargha, *Philosophy.*Pt. R. Kanjilal, *Sanskrit.*J. N. Das, *English.*Pt. A. Kishan, *Philosophy.*L. Sunder Das, *Science.*

Pt. Pran Nath, "

Pt. G. Ram, *Mathematics.*M. Mohammad Ishaq, *Persian.*Pt. C. Narain, *English.*

Pt. B. K. Madan, "

G. L. Gupta, *Mathematics.*B. Singh, *Biology.*N. L. Manghirmalani, *History and Economics.*Pt. N. Shastri, *Sanskrit.*

2 Demonstrators.

STANFORD UNIVERSITY (California).**LELAND STANFORD JUNIOR UNIVERSITY**, Stanford University, Cal. (1891.)*Terms* : Organized on the Four-Quarter plan, the University being in continuous session except for the month of September. Three quarters constitute an Academic Year.**Degrees conferred.**—A.B., LL.B., A.M., C.E., E.E., M.E., etc.; J.D., M.D., Ph.D.

OFFICIALS.

President.—Ray Lyman Wilbur.*Registrar.*—Orrin Leslie Elliott.*Librarian.*—George Thomas Clark.*Dean of Men.*—John Ezra McDowell.*Dean of Women.*—Harriett Bradford.*Chaplain.*—David Charles Gardner.

PROFESSORS.

FACULTY OF ARTS.**Professors :**L. E. Bassett, *English.*W. H. Carruth, *Comparative Literature.*A. B. Clark, *Education (Graphic Art).*W. A. Cooper, *German.*E. P. Cubberley, *Education.*H. R. Fairclough, *Latin.*E. Greenlaw, *English.*G. Hempl, *Germanic Philology.*O. M. Johnston, *Romanic Languages.*E. Krehbiel, *History.*A. T. Murray, *Greek.*K. G. Rendtorff, *German.*A. B. Show, *European History.*J. A. Smith, *Political Science.*H. W. Stuart, *Philosophy.*J. S. P. Tatlock, *English Philology.*L. M. Terman, *Education.*P. J. Treat, *History.*V. J. West, *Political Science.*M. S. Wildman, *Economics.***Assistant Professors :**F. B. Garver, *Economics.*H. J. Hall, *English.*Y. Ichihashi, *Japanese History and Government.*C. A. Knoch (Miss), *German.*W. M. Proctor, *Education.*

W. T. Root, jr., "

T. P. Russell (Mrs.), *English.***Assistant Professors—Continued :**

S. S. Seward, jr. "

E. W. Smith, *English.*S. A. Smith, *French.*C. L. Starks (Mrs.), *Education (Graphic Art).*H. P. Stolz, *Physical Training.***Associate Professors :**C. G. Allen, *Romanic Languages.*W. D. Briggs, *English.*H. C. Brown, *Philosophy.*P. E. Davidson, *Education.*J. Elmore, *Latin.*A. M. Espinosa, *Romanic Languages.*B. O. Foster, *Latin.*H. D. Gray, *English.*E. Jones, *Economics.*E. W. Martin, *Greek.*P. A. Martin, *European History.*E. E. Robinson, *American History.*J. B. Sears, *Education.*

24 Instructors and 4 Lecturers.

FACULTY OF SCIENCE.**Professors :**R. E. Allardice, *Mathematics.*F. Angell, *Psychology.*E. Blackwelder, *Geology.*H. F. Blichfeldt, *Mathematics.*D. H. Campbell, *Botany.*E. C. Franklin, *Organic Chemistry.*

Professors—Continued :

- C. H. Gilbert, *Zoology*.
 R. R. Goorich, *Metallurgy*.
 R. L. Green, *Mathematics*.
 H. Heath, *Zoology*.
 V. L. Kellogg, *Entomology*.
 J. Kendall, *Chemistry*.
 L. R. Lenox, *Analytical Engineering*.
 S. M. Parker, *Military Science and Tactics*.
 J. G. Peirce, *Botany and Plant Physiology*.
 G. C. Price, *Zoology*.
 A. F. Rogers, *Mineralogy*.
 F. Sanford, *Physics*.
 J. P. Smith, *Palaeontology*.
 R. E. Swain, *Chemistry*.
 C. F. Tolman, jr., *Economic Geology*.
 B. Willis, *Geology*.
 S. W. Young, *Physical Chemistry*.

Assistant Professors :

- J. G. Brown, *Physics*.
 J. E. Coover, *Psychology*.
 E. R. Drew, *Physics*.
 W. K. Fisher, *Zoology*.
 H. K. Kingsbury, *Military Science and Tactics*.
 M. I. McCracken (Miss), *Entomology*.
 P. A. Ross, *Physics*.
 W. H. Sloan, *Chemistry*.
 E. C. Starks, *Zoology*.

Associate Professors :

- L. Abrams, *Botany*.
 L. L. Burlingame, *Botany*.
 W. F. Dietrich, *Metallurgy*.
 R. W. Doane, *Entomology*.
 J. P. Mitchell, *Chemistry*.
 F. J. Rogers, *Physics*.
 8 Instructors.

SCHOOL OF ENGINEERING.**Professors :**

- W. F. Durand, *Mechanical Engineering*.
 W. R. Eckart, " "
 J. C. L. Fish, *Railroad Engineering*.
 L. M. Hoskins, *Applied Mathematics*.
 E. P. Lesley, *Mechanical Engineering*.
 C. D. Marx, *Civil Engineering*.
 G. H. Marx, *Machine Design*.
 H. C. Moreno, *Applied Mathematics*.
 H. J. Ryan, *Electrical Engineering*.
 S. D. Townley, *Applied Mathematics*.
 C. B. Wing, *Structural Engineering*.

Assistant Professors :

- C. N. Cross, *Mechanical Engineering*.
 L. E. Cutter, " "
 J. H. Foss, *Civil Engineering*.
 C. Moser, " "
 H. W. Stebbins, *Mechanical Engineering*.
 H. W. Young, *Metallurgy*.

Associate Professor :

- W. A. Manning, *Applied Mathematics*.
 6 Instructors.

SCHOOL OF MEDICINE.**Professors :**

- A. C. Crawford, *Pharmacology*.
 A. W. Hewlett, *Medicine*.
 F. M. McFarland, *Histology*.
 W. H. Manwaring, *Bacteriology and Experimental Pathology*.
 A. W. Meyer, *Anatomy*.
 W. Ophuls, *Pathology*.
 E. Rixford, *Surgery*.
 T. G. Russell, *Surgery*.
 A. B. Spalding, *Obstetrics and Gynecology*.
 S. Stillman, *Surgery*.

Assistant Professors :

- E. D. Congdon, *Anatomy*.
 C. D. Mosher, *Personal Hygiene*.
 J. R. Slonaker, *Physiology*.
 H. A. Stephenson, *Obstetrics and Gynecology*.
 F. W. Weymouth, *Physiology*.
 H. H. Yerington, *Medicine (Pediatrics)*.

Associate Professors :

- T. Addis, *Medicine*.
 F. E. Blaisdell, *Surgery*.
 W. W. Boardman, *Medicine (Actinography)*.
 J. C. Clark, *Electrical Engineering*.
 J. F. Cowan, *Surgery*.
 E. C. Dickson, *Medicine*.
 L. W. Ely, *Surgery (Orthopedics)*.
 H. K. Faber, *Medicine (Pediatrics)*.
 C. S. Stoltenberg (Miss), *Physiology*.

Clinical Professors :

- W. F. Cheney, *Medicine*.
 H. P. Hill, " "
 A. W. Hoisholt, *Medicine (Psychiatry)*.
 A. B. McKee, *Surgery (Ophthalmology)*.
 R. L. Rigdon, *Surgery (Genito-Urinary)*.
 E. C. Sewall, *Surgery (Otology, Rhinology, Laryngology)*.
 W. F. Snow, *Hygiene and Public Health*.
 G. B. Somers, *Gynecology*.

Assistant Clinical Professors :

- H. Barkan, *Surgery (Phththalmology)*.
 G. Dr. F. Barnett, *Medicine*.
 W. R. P. Clark, *Medicine (Tuberculosis)*.
 H. W. Gibbons, *Obstetrics and Gynecology*.
 P. K. Gilman, *Surgery*.
 F. R. Girard, *Obstetrics and Gynecology*.
 H. B. Graham, *Surgery (Otology)*.
 T. G. Inman, *Medicine (Neurology)*.
 H. Y. McNaught, *Surgery (Oology, Rhinology, Laryngology)*.
 H. G. Mehrtens, *Medicine (Neurology)*.
 H. R. Oliver, *Medicine (Serology)*.
 H. Rothganger, *Surgery*.
 M. E. Rumwell, " "
 J. M. Woltsom, *Medicine (Neurology)*.

Associate Clinical Professors :

C. M. Cooper, *Medicine*.
 L. Eloesser, *Surgery*.
 W. F. Schaller, *Medicine (Neurology)*.
 22 Clinical Instructors, 10 Lecturers,
 7 Instructors, and 1 Assistant
 Lecturer.

SCHOOL OF LAW.

J. W. Bingham, *Law*.
 A. M. Cathcart "
 C. A. Huston "
 M. R. Kirkwood "
 C. G. Vernier "
 C. B. Whitter "

2 Instructors, 43 Assistants in Instruction, 18 Technical Assistants.

Libraries.—

Staff : G. T. Clark, *Librarian*.
 A. N. Hays (Miss), *Reference Librarian*.
 L. Ophuls (Miss), *Medical Librarian* (Lane Medical Library).
 19 Assistants.

STATE COLLEGE (Pennsylvania).

THE PENNSYLVANIA STATE COLLEGE, Pa. (1855.)

In number of undergraduate candidates for degrees, the Pennsylvania State College ranks foremost among institutions in the United States organized under the name of "College."

Terms : Two semesters and summer session.

Students : 2,859 (candidates for degrees); 1,289 (not candidates for degrees).

Budget (for collegiate year 1917-18):

Maintenance	\$1,050,374.78
Land	10,072.50
New Equipments	8,175.04
Total	\$1,068,622.32

OFFICIALS.

President.—E. E. Sparks, M.A., Ph.D., LL.D.
Dean of Men.—A. R. Warnock, M.A.
Dean of Women.—Miss Margaret Knight, M.A.
Dean of the School of Agriculture.—R. L. Batts, M.S., D.Agri.
Dean of the School of Liberal Arts.—T. C. Blaisdell, Ph.D., LL.D.
Dean of the School of Engineering.—R. L. Sackett, C.E.
Dean of the School of Natural Science.—G. G. Pond, Ph.D.
Dean of the School of Mines.—E. S. Moore, Ph.D.
Registrar.—A. Howry Espenshade, M.A.

Degrees conferred.—B.A., M.A., B.S., M.S., C.E., E.E., M.E., E.M.

SCHOOL OF LIBERAL ARTS.

Professors :

J. M. Willard, *Mathematics*.
 F. L. Pattee, *English and American Literature*.
 E. W. Runkle, *Psychology and Ethics*.
 I. L. Foster, *Romance Languages*.
 H. T. Collings, *German*.
 A. H. Espenshade, *Rhetoric*.
 C. O. Harris, *Greek Language and Literature*.
 J. T. Marshman, *Public Speaking*.
 G. F. Zook, *Medieval and Modern History*.
 J. P. Ritenour, *Health Service*.
 D. A. Anderson, *Education*.
 L. V. T. Simmons (Miss), *German*.
 R. G. Bressler, *Rural Sociology*.
 G. W. Davis, *Training of Vocational Teachers*.

Associate Professors :

J. H. Frizzell, *English*.
 W. S. Dye, *English*.
 A. L. Kocher, *Architectural Extension*.
 W. D. Crockett, *Latin*.
 O. F. Boucke, *Economics and Economic History*.
 C. E. Marquardt, *German*.
 A. E. Martin, *American History*.
 H. Bezdek, *Physical Education*.
 A. Rhoton, *Education*.

Assistant Professors :

L. M. Burrage, *French*.
 F. W. Pierce, *German*.
 G. K. Scott (Miss), *Industrial and Fine Arts*.
 H. L. Ridenour, *English*.
 W. E. Lewis, *Physical Education*.
 J. W. Crowell, *Romance Languages*.
 J. Tanager, *Political Science*.

Assistant Professors—Continued:

- H. G. Parkinson, *Rural Education*.
 F. C. Disque, *Architectural Drawing*.
 J. O. Knauss, *History*.
 E. J. Hall, *English*.
 C. W. Hasek, *German and Russian*.
 E. M. Bowman, *Romance Languages*.

SCHOOL OF NATURAL SCIENCE.

Professors:

- G. G. Pond, *Chemistry*.
 W. R. Ham, *Physics*.
 F. D. Kern, *Botany*.
 J. H. Tudor, *Mathematics*.
 H. F. Stecker, *Mathematics*.
 E. H. Dusham, *Entomology*.

Associate Professors:

- M. M. Garver, *Physics*.
 E. R. Smith, *Mathematics*.
 J. B. Hill, *Botany*.
 J. E. Rowe, *Mathematics*.
 D. C. Duncan, *Physics*.

Assistant Professors:

- W. J. Keith, *Organic Chemistry*.
 E. B. Meek (Miss), *Bacteriology*.
 G. C. Chandlee, *Qualitative Analysis*.
 C. G. Simpson, *Mathematics*.
 R. S. Pritchard, *Qualitative Analysis*.
 T. W. Mason, *Chemistry*.
 J. E. Davis, *Mathematics*.
 T. E. Gravatt, *Mathematics*.
 L. R. Parks, *Physical Chemistry*.
 S. R. Parsons, *Physics*.
 L. O. Overholts, *Botany*.
 C. W. Robinson, *Geology*.
 C. A. Hunter, *Bacteriology*.
 J. A. Swindler, *Physics*.
 J. H. Olewine, *Chemistry*.
 J. P. Kelly, *Botany*.
 De W. T. Keach, *Chemistry*.
 C. P. Sousesley, *Mathematics*.
 C. H. Hadley, *Economic Entomology*.
 C. A. Bonine, *Geology*.
 C. G. Watson, *Physics*.
 E. R. Wightman „

SCHOOL OF AGRICULTURE.

Professors:

- W. Frear, *Experimental Agricultural Chemistry*.
 H. P. Armsby, *Animal Nutrition*.
 F. D. Gardner, *Agronomy*.
 T. I. Mairs, *Agricultural Education*.
 C. W. Stoddart, *Chemical Agriculture*.
 W. H. Tomhave, *Animal Husbandry*.
 J. A. Ferguson, *Forestry*.
 M. S. McDowell, *Agricultural Extension*.
 A. A. Borland, *Dairy Husbandry*.
 S. W. Fletcher, *Horticulture*.
 F. Rasmussen, *Dairy Husbandry*.
 N. Schmitz, *Agronomy Extension*.
 E. K. Hibshman, *Farm Organization Extension*.

Professors—Continued:

- A. W. Cowell, *Landscape Gardening*.
 E. L. Nixon, *Plant Pathology Extension*.
 W. S. Taylor, *Agricultural Education*.
 H. H. Havner, *Animal Husbandry Extension*.
 F. P. Weaver, *Farm Organization Extension*.

Associate Professors:

- M. B. McDonald (Miss), *Chemical Agriculture*.
 E. L. Worthen, *Agronomy*.
 C. R. Orton, *Plant Pathology*.
 C. F. Noll, *Experimental Agronomy*.
 J. W. White „
 C. E. Myers, *Plant Breeding*. „
 R. U. Blasingame, *Farm Machinery*.
 J. A. Fries, *Animal Nutrition*.
 E. L. Anthony, *Dairy Husbandry*.
 E. L. Moffitt, *Farm Management Extension*.
 F. T. Struck, *Agricultural Education*.
 G. Wehrwein, *Rural Economics*.

Assistant Professors:

- W. H. Darst, *Agronomy*.
 F. N. Fagan, *Pomology*.
 W. R. Gorsham, *Agricultural Extension*.
 G. R. Green, *Forestry*.
 W. R. White, *Agricultural Education*.
 J. F. Adams, *Plant Pathology*.
 E. I. Wilde, *Floriculture*.
 S. I. Bechdel, *Dairy Husbandry*.
 C. R. Anderson, *Forestry*.
 J. R. Bechtel, *Vegetable Gardening*.
 G. S. Bulkeley, *Dairy Husbandry Extension*.
 D. E. Haley, *Chemical Agriculture*.
 C. L. Goodling, *Farm Management*.
 C. G. McBride, *Agricultural Extension*.
 M. F. Grimes, *Animal Husbandry*.
 D. S. Fox, *Agronomy*.
 M. W. Lisse, *Chemical Agriculture*.
 W. W. Braman (Miss), *Animal Nutrition*.
 F. L. Bentley, *Animal Husbandry*.
 H. C. Kandel, *Poultry Husbandry Extension*.
 I. D. Wilson, *Animal Husbandry*.
 L. S. Kleinschmidt, *Poultry Husbandry*.
 P. E. Dougherty, *Animal Husbandry Extension*.

SCHOOL OF ENGINEERING.

Professors:

- E. D. Walker, *Hydraulic and Sanitary Engineering*.
 H. Diemer, *Industrial Engineering*.
 E. S. Moore, *Geology and Mineralogy*.
 P. B. Breneman, *Mechanics and Materials of Construction*.
 C. L. Kinsloe, *Electrical Engineering*.

Professors—Continued :

E. A. Fessenden, *Mechanical Engineering.*

A. J. Wood, *Railway Mechanical Engineering.*

Associate Professors :

H. B. Shattuck, *Railroad Engineering.*

C. E. Govier, *Telephone Engineering.*

E. L. Waterman, *Hydraulic and Sanitary Engineering.*

J. H. Yoder, *Engineering Extension.*

R. A. Caughey, *Civil Engineering.*

Assistant Professors :

R. O'Donnell, *Civil Engineering.*

D. L. Markle, *Electrical Engineering.*

G. H. Resides, *Practical Mechanics.*

F. M. Torrence, *Mechanical Engineering.*

W. H. Martin, *Mechanical Engineering.*

E. M. Broderick, *Practical Mechanics.*

C. L. Harris, *Architectural Engineering.*

N. C. Miller, *Engineering Extension.*

T. S. Patterson, *Mechanics and Materials of Construction.*

R. E. Minshall, *Civil Engineering.*

H. M. Armstrong, *Electro-Chemical Engineering.*

H. K. Kistler, *Civil Engineering.*

L. W. Whitehead, *Civil Engineering.*

P. A. Cushman, *Mechanical Engineering.*

Post-Graduate Courses.—For degree of M.A., M.S., C.E., E.E., M.E., E.M.

Library.—College Library, 71,271 books, 75,000 pamphlets. *Librarian :* E. W. Runkle, Ph.D.

Institute of Animal Nutrition (the only one in the United States, supported by the National Government). *Director :* H. P. Armsby, Ph.D., LL.D.

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—R. L. Watts.

STATE COLLEGE (New Mexico).**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

Director.—Fabian Garcia.

STELLENBOSCH (South Africa).**UNIVERSITY OF STELLENBOSCH, C.P., South Africa.**

Terms : Two semesters per annum.

Students : Undergraduates, 532; Post-graduates, 61.

OFFICIALS.

Chancellor.—Rev. Prof. P. J. G. de Vos, Litt.D.

Vice-Chancellor.—Rev. Prof. A. Moores, Litt.D.

Principal.—G. G. Cillie, M.A., Ph.D.

Registrar.—D. J. Ackermann, B.A.

Degrees conferred.—B.A., M.A., B.Sc., B.Sc. (Agric.), M.Sc., M.Sc. (Agric.), Litt.D., D.Phil., D.Sc.

SCHOOL OF MINING.**Professors :**

S. B. Smith, *Mining Law.*

W. R. Chedsey, *Mining.*

Associate Professor :

H. B. Northrup, *Metallurgy.*

Assistant Professor :

B. Dudley, *Metallurgy.*

DEPARTMENT OF MILITARY SCIENCE.**Professor :**

M. D. Welfy, *Military Science and Tactics.*

DEPARTMENT OF HOME ECONOMICS.**Professor :**

E. P. Chace (Miss), *Home Economics.*

Associate Professor :

P. MacDonald (Miss), *Home Economics Extension.*

Assistant Professor :

L. B. Moss (Miss), *Domestic Science.*

113 Instructors, 48 Assistants, 3 Associates.

PROFESSORS.

FACULTY OF LITERATURE AND PHILOSOPHY.

Professors :

- P. Van Braam, *Latin*.
 J. Basson, *Classics and Classical Philology*.
 C. S. Edgar, *Greek*.
 W. A. Joubert, *Dutch*.
 J. J. Smith, *French and German*.
 H. C. Notcutt, *English*.
 W. Blommaert, *History*.
 S. F. N. Gie, *S. A. History*.
 N. J. Brummer, *Ethics and Politics*.
 R. W. Wilcocks, *Logic and Psychology*.
 7 Lecturers.

FACULTY OF SCIENCE.

Professors :

- A. B. Bartmann, *Mathematics*.
 A. H. Mackenzie „

Library.—University Library. Librarian : Miss Chapman.

Professors—Continued :

- J. T. Morrison, *Applied Mathematics*.
 W. E. Malherbe, *Physics*.
 C. D. Merwe, *Inorganic Chemistry*.
 B. v. d. Riet, *Organic Chemistry*.
 D. F. du Toit, *Physical Chemistry*.
 E. J. Goddard, *Zoology*.
 8 Lecturers.

FACULTY OF AGRICULTURE.

Professors :

- A. I. Perold, *Viticulture and Oenology*.
 O. S. H. Reinecke, *Pomology*.
 J. H. Neethling, *Agricultural Botany*.
 3 Lecturers.

FACULTY OF EDUCATION.

Professors :

- G. G. Cillie, *Education*.
 D. A. A. Pauw, *Method*.
 4 Lecturers.

AFFILIATED INSTITUTIONS.

Victoria College: founded 1881; raised to University, 1918.

STILLWATER (Oklahoma).

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—H. G. Knight.

STORRS STATION (Connecticut).

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—E. H. Jenkins.

SUTTON BONINGTON.

MIDLAND AGRICULTURAL AND DAIRY COLLEGE, Agricultural Department, Sutton Bonington. Dairy Department, Kingston-on-Soar. (1895.)

Terms : Three in Agriculture; two in Dairying. Also short courses.

Students : 80.

Principal.—W. Goodwin, M.Sc., Ph.D.

LECTURERS.

- H. M. McCreath, *Agriculture*.
 J. Duncan, *Agriculture*.
 C. B. Donald (Miss), *Agriculture*.
 J. G. W. Stafford, *Dairying*.
 E. J. Hugill (Miss) „
 W. Goodwin, *Agricultural and Dairy Chemistry*.
 H. T. Cranfield, *Agricultural and Dairy Chemistry*.
 F. Knowles, *Soil Analyst*.
 E. Holden, *Zoology*.
 H. S. Holden, *Botany*. [teriology.
 M. G. D. Taylor (Miss), *Dairy Bac*

- A. Levie, *Veterinary Science and Pathogenic Bacteriology*.
 J. S. King, *Book-keeping and Economics*.
 D. W. Lansdown, *Engineering*.
 I. D. Strachan (Miss), *Poultry Management*.
 D. E. Wilkinson (Miss), *Assistant in Poultry Department*.
 J. H. Beale, *Horticulture*.
 H. P. Hutchinson, *Adviser in Botany*.
 Rev. A. Thornley, *Nature Study*.
 G. Hayes, *Apiculture*.
 H. Nicholson (Miss), *Domestic Economy*.

SYDNEY (New South Wales).

THE UNIVERSITY OF SYDNEY. (1850.)

Terms : Three a year.

OFFICIALS.

Chancellor.—The Hon. Sir D. Portus Cullen, K.C.M.G., M.A., LL.D., Chief Justice of N.S.W.

Vice-Chancellor.—The Hon. Mr. Justice D. G. Ferguson, B.A.

Registrar.—H. E. Barff, M.A.

Librarian.—J. Le Gay Brereton, M.A.

Degrees conferred :

Degrees.	Hoods.
B.A. - - -	Similar to B.A. Cambridge.
M.A. - - -	Black silk lined with blue silk.
B.Sc. - - -	Black stuff edged with amber silk.
D.Sc. - - -	Scarlet cloth lined with amber silk.
B.E. - - -	Black stuff lined with light maroon silk.
M.E. - - -	Black silk lined with light maroon silk.
LL.B. - - -	Black silk edged with blue silk.
LL.D. - - -	Scarlet cloth lined with blue silk.
M.B. - - -	Black silk edged with purple silk.
M.D. - - -	Scarlet cloth lined with purple silk.
M.S. - - -	Scarlet cloth lined with French grey silk.
B.Sc. (Agric.)	Black stuff edged with green silk.
B.D.S. - - -	Black stuff edged with purple and crimson silk.
B.V.Sc. - - -	Black silk edged with amber and purple silk.
B.Sc. - - -	Black stuff edged with copper-coloured silk.
M.Ec. - - -	Black silk lined with copper-coloured silk.

PROFESSORS.

FACULTY OF ARTS.

Professors :

- T. Butler, *Latin*.
 H. S. Carslaw, *Mathematics, Pure and Applied*.
 M. W. MacCallum, *Modern Literature*.
 A. Anderson, *Logic and Mental Philosophy*.
 W. J. Woodhouse, *Greek*.
 G. A. Wood, *History*.
 A. Mackie, *Education*.
 G. Phillips, *Experimental Education*.
 R. F. Irvine, *Economics*.
 J. Murdoch, *Oriental Studies*.

Assistant Professors :

- F. A. Todd, *Latin*.
 E. R. Holme, *English*.
 G. G. Nicholson, *French and German*.
 19 Lecturers and 5 Assistant Lecturers.

FACULTY OF LAW.

Professor :

Hon. J. B. Peden. *Law*.

Readers :

- C. G. Davidson, *Conveyancing*.
 P. R. Watts, *Common Law Practice and Pleading*.
 D. S. Edwards.
 5 Lecturers.

FACULTY OF MEDICINE.

Professors :

- Sir T. A. Stuart, *Physiology*.
 J. T. Wilson, *Anatomy*.
 D. A. Welsh, *Pathology*.
 H. G. Chapman, *Pharmacology*.
 H. J. Marks, *Diseases of Ear, Nose, and Throat*.
 E. H. Molesworth, *Diseases of the Skin*.
 J. Foreman, *Gynecology*.
 H. R. G. Poate, *Military Surgery*.
 H. S. Stacey, *Military Administration*.
 W. G. Armstrong, *Public Health*.
 R. F. Reading, *Dentistry*. [strators.
 28 Lecturers, 7 Tutors, 19 Demon-

FACULTY OF SCIENCE.

Professors :

- J. A. Pollock, *Physics*.
 C. E. Fawsitt, *Chemistry*.
 S. J. Johnston, *Zoology*.
 T. W. E. David, *Geology and Physical Geography*.
 A. A. Lawson, *Botany*.
 J. Read, *Chemistry, Organic, Pure and Applied*.
 W. H. Warren, *Engineering*.
 P. N. Russell, *Mechanical Engineering*.

Professors—Continued :

L. Wilkinson, *Architecture*.
 W. E. Cooke, *Astronomy*.
 J. D. Stewart, *Veterinary Science*.
 R. D. Watt, *Agriculture*.

Assistant Professors :

O. U. Vonwiller, *Physics*.
 J. A. Schofield, *Chemistry*.
 P. N. Russell, *Electrical Engineering*.
 40 Lecturers, 22 Demonstrators.

Museums.—

Museum of Normal and Morbid Anatomy. *Curator* : Prof. D. A. Welsh, M.A., B.Sc., M.D., F.R.C.P.
 Macleay Museum of Natural History. *Curator* : J. Shewan.
 Nicholson Museum of Egyptian, Greek, Roman and Medieval Antiquities. *Curator* : Prof. W. J. Woodhouse, M.A.

THE ROYAL SOCIETY FOR NEW SOUTH WALES, 5, Elizabeth Street North, Sydney, N.S.W.

Patron.—His Excellency the Rt. Hon. Sir Ronald Craufurd Munro-Ferguson, P.C., G.C.M.G.

Vice-Patron.—His Excellency Sir Walter Edward Davidson, K.C.M.G.

President.—Prof. O. E. Fawsitt, D.Sc., Ph.D.

Vice-Presidents.—

R. Greig Smith, D.Sc. J. B. Cleland, M.D., Ch.M.
 T. H. Houghton, M.Inst.C.E. W. S. Dun.

Hon. Treasurer.—Prof. H. G. Chapman, M.D.

Hon. Secretaries.—

R. H. Cambage, F.L.S. J. A. Pollock, D.Sc., F.R.S.

AUSTRALASIAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE,
 Royal Society's House, 5, Elizabeth Street, Sydney.

This Society (which includes New Zealand) is much on the lines of the British Association, and was founded by Professor Liversidge, LL.D., F.R.S., and held its first meeting in Sydney in the Australian Centenary Year (1888).

Besides the usual grants to Committees the Association supported the Mawson Antarctic Expedition to the extent of a thousand pounds.

The Association works by sections, of which there are twelve.

OFFICIALS.

Permanent Hon. Secretary.—J. H. Maiden, I.S.O., F.R.S.

President.—Prof. T. W. Edgeworth David, C.M.G., D.S.O., D.Sc., F.R.S., Sydney.

President-elect.—Prof. Sir W. Baldwin Spencer, K.C.M.G., F.R.S.

Vice-Presidents.—

Prof. A. Liversidge, LL.D., F.R.S. Prof. Orme Masson, D.Sc., F.R.S.
 Prof. W. H. Bragg, M.A., F.R.S. G. H. Knibbs, C.M.G., F.R.A.S.
 Richard Teece, F.I.A., F.F.A., F.S.S.

Hon. Treasurer.—David Carment, F.I.A., F.F.A.

THE LOCAL SECRETARIES FOR THE VARIOUS STATES.

J. H. Maiden, F.R.S., New South Wales.
 A. D. Rivett, D.Sc. (Acting), Victoria.
 Prof. W. Howchin, F.G.S., South Australia.
 A. Gibb Maitland, F.G.S., Western Australia.
 J. Shirley, D.Sc., Queensland.
 Prof. T. Thomson Flynn, B.Sc., Tasmania.
 Prof. C. Coleridge Farr, D.Sc., New Zealand.

THE TECHNOLOGICAL MUSEUM, Harris Street, Sydney, N.S.W., Australia.

The Sydney Technological Museum is a Government Institution to which the public can apply at any time concerning the Mineral, Vegetable, or Animal Resources of the State or Commonwealth.

OFFICIALS.

Curator and Economic Botanist.—R. T. Baker, F.L.S., etc.
Assistant Curator and Economic Chemist.—H. G. Smith, F.C.S.
Economic Zoologist.—T. C. Roughly.

The scope of the work is principally:

1. To assist in every way the development of the natural resources of the State and Commonwealth by bringing together for investigation, instruction, etc., collections of our raw products, such as wool, timber, minerals, essential oils, etc.
2. To scientifically investigate these products and so ascertain the various economic purposes to which they can be put or for which they are suitable.
3. To publish these results for the benefit of the commercial world.
4. To collect and exhibit the various economic products of the world, and to gather, as far as possible, all information relating to them.
5. Lectures on the economic products are given in our Technical Colleges, Trade Schools, and various other Institutions.
6. Since its inception over 200 original papers and publications have been issued from this Institution, all bearing on the commercial development of the raw products of the State and Commonwealth.

SYDNEY OBSERVATORY, New South Wales, Australia. (1858.)

Astronomical and Seismological.

Government Astronomer and Professor of Astronomy.—W. E. Cooke.

Principal Instruments.—Six-inch Transit Circle, 13-inch Astrograph, 11¼-inch Equatorial, Milne Seismograph.

THE BOTANIC GARDENS, Sydney, N.S.W. (1816.)

Director and Government Botanist.—J. H. Maiden, F.L.S.

The Gardens include the earliest land cultivated in Australia, on the arrival of the first fleet in 1788.

TAIPING (Federated Malay States).

PERAK MUSEUM, Taiping, Federated Malay States.

Officer in Charge.—I. H. N. Evans, M.A.

This Museum, with the Selangor Museum at Kuala Lumpur, is under the Director of Museums, Federated Malay States.

The Perak Museum, besides ethnographical collections, contains a good series of specimens illustrative of the minerals of the Malay States, especially tin and gold, and a representative collection for purposes of reference of minerals from other countries; zoological exhibits, chiefly mammals and birds; and examples of commercially useful agricultural and other products. The most noteworthy collections, however, as indicated above, are those of ethnographical objects.

Publications.—The Journal of the F.M.S. Museum.

TEDDINGTON (Middlesex).

THE NATIONAL PHYSICAL LABORATORY, Teddington, Middlesex.

The National Physical Laboratory was founded in the year 1901 at a public institution for standardising and verifying instruments, for testing materials, and for the determination of physical constants.

Prior to 1918 the property of the Laboratory was vested in the President and the Council of the Royal Society, and the Laboratory was controlled by a General Board and an Executive Committee, appointed by the President and Council of the Royal Society, and comprising representatives of the Society and of the great technical institutions. As from April 1, 1918, the responsibility for the maintenance of the National Physical Laboratory was undertaken by the Department of Scientific and Industrial Research, and the work of the Laboratory is now carried on under "Provisions for the Future Control of the National Physical Laboratory" agreed upon between the Department and the President and Council of the Royal Society.

The Laboratory comprises eight main sections: (1) Physics, (2) Electricity,

(3) Metrology, (4) Engineering, (5) Aerodynamics, (6) Metallurgy and Metallurgical Chemistry, (7) The William Froude National Tank, (8) Secretarial.

Director.—Professor J. E. Petavel, D.Sc., F.R.S.

See also **Department of Scientific and Industrial Research**, p. 183.

TERRE HAUTE (Indiana).

ROSE POLYTECHNIC INSTITUTE, Terre Haute, Indiana. (1874.)

Terms : Session September to June. *Students* : Limited to 200.

OFFICIALS.

Acting President.—John White, Ph.D.

Vice-President.—(Vacant.)

Secretary.—J. B. Peddle, M.E.

Degrees conferred.—

Bachelor of Science, in Mechanical, Electrical, Civil, Architectural, and Chemical Engineering.

Master of Science Degree granted for one year of satisfactory resident post-graduate study, or two years in absentia under direction of Institute Faculty. Formal graduate courses are not offered in general.

Degree of Engineer in different branches named above conferred on professional record.

PROFESSORS.

Professors :

J. White, *Chemistry*.

F. C. Wagner, *Mechanical and Electrical Engineering*.

J. A. Wickersham, *Languages*.

A. S. Hathaway, *Mathematics*.

J. B. Peddle, *Machine Design*.

E. S. Johannott, *Physics*.

R. L. McCormick, *Mechanics and Structural Engineering*.

H. A. Thomas, *Hydraulics*.

C. Wischmeyer, *Shop Management*.

W. D. Weidlein, *Military Science and Tactics*.

Post-Graduate Courses.—Not formally offered.

Library.—16,000 volumes, 3,500 pamphlets. *Librarian* : A. A. Faurot. *Assistant Librarian* : Mrs. E. McCullough.

Associate Professors :

C. C. Knipmeyer, *Electrical Engineering*.

A. A. Faurot, *Languages*.

H. A. Thomas, *Civil Engineering*.

C. Wischmeyer, *Machine Design*.

A. T. Child, *Chemistry*.

Assistant Professors :

O. L. Stock, *Drawing and Architectural Design*.

R. R. Sellers, *Mathematics*.

5 Instructors, and a Director of Athletics.

TORONTO (Canada).

UNIVERSITY OF TORONTO, Canada. (1827.)

Terms : Two per year.

Students (1918-19) : 3,356.

Budget (1918-19) : \$1,200,534.

OFFICIALS.

Chancellor.—The Hon. Sir W. R. Meredith, LL.D.

President.—Sir R. A. Falconer, K.C.M.G., D.Litt., M.A., LL.D.

Registrar.—J. Brebner, B.A.

Bursar.—F. A. Moure.

Degrees conferred.—B.A., M.B., B.Sc.(Med.), B.A.Sc., B.Pæd., B.Sc.F., Mus. Bac., LL.B., D.D.S., Phm.B., B.V.Sc., B.S.A., LL.D. (Honorary), M.A., M.A.Sc., Ph.D., M.D., C.E., M.E., Chem.E., D.Pæd., F.E., Mus.Doc. LL.M., D.V.S.

PROFESSORS.

FACULTY OF ARTS.

Members of the Staff of the University,
University College, Victoria College,

Trinity College, and St. Michael's College[®]
are indicated by (U), (C), (V), (T), and
(M), respectively. ®

Professors :

- W. J. Alexander (C), *English*.
 A. Baker (U), *Mathematics*.
 A. J. Bell (V), *Comparative Philology*.
 B. A. Bensley (U), *Zoology*.
 G. S. Brett (U), *Philosophy*; (T) *Ethics*.
 M. A. Buchanan (U), *Italian and Spanish*.
 J. H. Cameron (C), *French*.
 Rev. H. Carr (M), *Greek and the History of Philosophy*.
 A. Carruthers (C), *Greek Literature and Archeology*.
 C. A. Chant (U), *Astrophysics*.
 A. P. Coleman (U), *Geology*.
 Rev. F. H. Cosgrave (T), *Hebrew*.
 J. A. Craig (C), *Oriental Languages*.
 C. T. Currelly (U), *History of Industrial Art*.
 Rev. D. Cushing (M), *Cosmology*.
 A. D. De Lucy (U), *Mathematics*.
 N. W. De Witt (V), *Latin Literature*.
 M. De Wulf (M), *Medieval Philosophy*.
 Rev. H. T. F. Duckworth (T), *Ancient History*.
 O. P. Edgar (V), *English*.
 J. H. Faulstich (U), *Botany*.
 J. C. Fields (U), *Mathematics*.
 H. E. Ford (V), *French*.
 S. H. Hooke (V), *Oriental Languages and Literature*.
 L. E. Horning (V), *Teutonic Philology*.
 J. G. Hume (U), *History of Philosophy*.
 M. Hutton (C), *Greek*.
 W. P. McC. Kennedy (M), *English*.
 D. R. Keys (C), *Anglo-Saxon*.
 W. A. Kirkwood (T), *Latin*.
 R. E. L. Kittredge (T), *French*.
 W. B. Lane (V), *Ethics*.
 A. E. Lang (V), *German Language and Literature*.
 W. R. Lang (U), *Chemistry*.
 A. L. Langford (V), *Greek Language and Literature*.
 W. J. Loudon (U), *Mechanics*.
 Rev. R. McBrady (M), *Latin and French*.
 Rev. E. J. McCorkell (M), *Social Ethics*.
 M. A. Mackenzie (U), *Mathematics*.
 Rev. J. F. McLaughlin (V), *Oriental Languages and Literature*.
 J. C. McLennan (U), *Physics*.
 J. J. R. Macleod (U), *Physiology*.
 J. P. McMurrich (U), *Chemistry*.
 J. Mavor (U), *Political Economy*.
 Rev. F. D. Meader (M), *Ethics*.
 W. L. Miller (U), *Chemistry*.
 W. S. Milner (C), *Greek and Roman History*.
 G. H. Needler (C), *German*.
 Rev. M. J. Oliver (M), *Psychology*.
 W. A. Parks (U), *Paleontology*.
 E. T. Owen (T), *Greek*.

Professors—Continued :

- Rev. F. G. Powell (M), *Philosophy*.
 Rev. J. J. Purcell (M), *Metaphysics*.
 J. C. Robertson (V), *Greek Language and Philosophy*.
 T. B. Robertson (U), *Biochemistry*.
 J. E. Shaw (U), *Italian and Spanish*.
 H. C. Simpson (T), *English*.
 W. R. Taylor (C), *Oriental Languages*.
 F. Tracy (C), *Ethics*.
 T. L. Walker (U), *Mineralogy*.
 M. W. Wallace (C), *English*.
 J. S. Will (C), *French*.
 G. McK. Wrong (U), *History and Ethnology*.
 A. H. Young (T), *German*.

Associate Professors :

- A. H. Abbott (U), *Philosophy*.
 F. B. Allan (U), *Chemistry*.
 V. de Beaumont (V), *French Language and Literature*.
 E. F. Burton (U), *Physics*.
 C. E. Auger (V), *English*.
 S. E. de Champ (C), *French*.
 B. Fairley (C), *German*.
 O. D. Howe (U), *Botany*.
 A. G. Huntsman (U), *Marine Biology*.
 F. B. Kenrick (U), *Chemistry*.
 Rev. E. J. McCorkell (M), *English*.
 R. M. MacIver (U), *Political Economy*.
 Rev. J. T. Muecke (M), *Greek*.
 Rev. M. J. Oliver (M), *German*.
 W. H. Piersol (U), *Histology*.
 Rev. F. G. Powell (M), *Latin*.
 C. B. Sissons (V), *Ancient History*.
 W. G. Smith (U), *Psychology*.
 R. B. Thomson (U), *Botany*.
 E. M. Walker (U), *Biology*.

Assistant Professors :

- S. Beatty (U), *Mathematics*.
 W. H. Clawson (C), *English*.
 S. A. Cudmore (U), *Political Economy*.
 E. A. Dale (C), *Latin*.
 L. Gilchrist (U), *Physics*.
 F. A. Hartman (U), *Physiology*.
 W. Jackman (U), *Political Economy*.
 A. L. Parsons (U), *Mineralogy*.
 T. R. Robinson (U), *Philosophy*.
 L. J. Rogers (U), *Chemistry*.
 J. Satterley (U), *Physics*.
 G. M. Smith (U), *History*.
 G. O. Smith (C), *Latin*.
 P. Toews (C), *German*.
 H. Wasteneys (U), *Biochemistry*.
 J. H. White (U), *Botany*.
 R. H. Williams (U), *History*.

FACULTY OF MEDICINE.**Professors :**

- J. A. Amyot, *Hygiene*.
 N. H. Beemer, *Mental Diseases*.
 G. H. Burnham, *Ophthalmology and Otology*.

Professors—Continued :

- I. H. Cameron, *Surgery and Clinical Surgery.*
 C. K. Clarke, *Psychiatry.*
 W. H. Ellis, *Toxicology.*
 S. M. MacCallum, *Ophthalmology.*
 J. J. Mackenzie, *Pathology and Bacteriology.*
 A. McPhedran, *Medicine and Clinical Medicine.*
 N. A. Powell, *Medical Jurisprudence.*
 A. Primrose, *Clinical Surgery.*
 R. D. Rudolf, *Therapeutics.*
 B. P. Watson, *Obstetrics and Gynecology.*
 D. J. G. Wishart, *Oto-Laryngology.*

Associate Professors :

- H. B. Anderson, *Clinical Medicine.*
 A. M. Baines, *Clinical Medicine and Pediatrics.*
 G. A. Bingham, *Clinical Surgery and Clinical Anatomy.*
 H. A. Bruce, *Clinical Surgery.*
 G. Chambers, *Clinical Medicine.*
 R. J. Dwyer " "
 J. Ferguson " "
 J. G. Fitzgerald, *Hygiene.*
 J. T. Fotheringham, *Medicine and Clinical Medicine.*
 W. Goldie, *Clinical Medicine.*
 S. M. Hay, *Surgery.*
 A. A. Macdonald, *Obstetrics and Gynecology.*
 H. T. Machell, *Obstetrics and Pediatrics.*
 F. W. Marlow, *Gynecology.*
 K. C. Mellwraith, *Obstetrics.*
 P. W. McKeown, *Clinical Surgery.*
 A. McPhedran, *Medicine and Clinical Medicine.*
 W. H. Piersol, *Histology and Embryology.*
 C. L. Starr, *Clinical Surgery.*
 F. N. G. Starr, *Clinical Surgery.*
 W. B. Thistles, *Clinical Medicine.*

Assistant Professor :

- J. C. Watt, *Anatomy.*
 16 Associates, 6 Lecturers, and 133 other appointments.

FACULTY OF APPLIED SCIENCE AND ENGINEERING.

Professors :

- R. W. Angus, *Mechanical Engineering.*
 J. W. Bain, *Chemical Engineering.*
 W. H. Ellis, *Applied Chemistry.*
 G. A. Guess, *Metallurgy.*
 H. E. T. Haultain, *Mining Engineering.*
 J. McGowan, *Applied Mechanics.*

Post-Graduate Courses.—Leading to M.A., Ph.D., M.D., also in Engineering, Forestry, Music, Law, Pedagogy, Veterinary Science.

Library.—University Library (1917-18) contains 151,799 bound volumes and

Professors—Continued :

- T. R. Rosebrugh, *Electrical Engineering.*
 L. B. Stewart, *Surveying and Geodesy.*
 O. H. C. Wright, *Architecture.*

Associate Professors :

- G. R. Anderson, *Physics.*
 M. C. Boswell, *Organic Chemistry.*
 J. R. Cockburn, *Descriptive Geometry.*
 P. Gillespie, *Applied Mechanics.*
 H. W. Price, *Electrical Engineering.*

Assistant Professors :

- E. G. R. Ardagh, *Applied Chemistry.*
 L. M. Arkley, *Mechanical Engineering.*
 A. T. Laing, *Applied Mechanics.*
 T. R. Loudon, *Ferro-Metallurgy.*
 A. W. McConnell, *Architecture.*
 W. M. Treadgold, *Surveying.*
 C. R. Young, *Structural Engineering.*
 2 Lecturers and 31 other appointments.

FACULTY OF EDUCATION.

Professor :

- H. J. Crawford, *Education.*

Associate Professor :

- P. Sandiford, *Education.*

Assistant Professors :

- F. E. Coombs, *Methods in Elementary Subjects.*
 G. A. Cornish, *Methods in Science.*
 J. T. Crawford, *Methods in Mathematics.*
 W. C. Ferguson, *Methods in French and German.*
 J. M. Jones, *Methods in English.*
 19 Instructors and 3 Lecturers.

FACULTY OF FORESTRY.

Professor :

- B. E. Fernow, *Forestry.*

Associate Professor :

- C. D. Howe, *Forestry.*

Assistant Professors :

- W. N. Millar, *Forestry.*
 J. H. White, *Forestry.*

FACULTY OF MUSIC.

Professor :

- A. S. Vogt, *Dean.*
 4 Lecturers.

DEPARTMENT OF HOUSEHOLD SCIENCE.

Associate Professors :

- C. C. Benson (Miss), *Physiological Chemistry.*
 A. L. Laird (Miss), *Household Science.*
 3 Lecturers, 8 other appointments.

50,926 pamphlets. Victoria, Trinity, and St. Michael's Colleges also have local college libraries. *Librarian*: H. H. Langton, M.A.

Museum.—Royal Ontario Museum.

FEDERATED INSTITUTIONS.

Victoria University (Toronto); Trinity University (Toronto); St. Michael's College (Toronto); Kiwn College, Wycliffe College.

AFFILIATED INSTITUTIONS.

Ontario Agricultural College, Royal College of Dental Surgeons, Ontario Veterinary College, Ontario College of Pharmacy, Albert College, Columbian Methodist College, Alma College, St. Hilda's College (Western Canada).

VICTORIA UNIVERSITY, Queen's Park, Toronto. (1836.)

Victoria University for 56 years was located in Cobourg, Ont.—*i.e.*, from 1836 to 1892—and carried on its work in the Faculties of Arts, Medicine, Law, and Theology, as an independent institution. In 1890 Victoria University entered into Federation with the University of Toronto, and in 1892 began work as an Arts College in that institution—the Theological Faculty remaining independent, and the Faculties of Medicine and Law were merged in the corresponding Faculties of the University of Toronto.

Terms: Two per year.

Students (1919-20): 525.

Budget:

Assets (July 31, 1919)	\$1,934,749.86.
Expenditure (July 31, 1919)	143,263.26.

OFFICIALS.

Chancellor and President.—Rev. R. P. Bowles, M.A., D.D., LL.D.

Vice-Chancellor.—Hon. Mr. Justice Maclaren, M.A., LL.D.

Dean of the Faculty of Arts.—Professor J. L. Robertson, M.A.

Dean of the Faculty of Theology.—Rev. Professor F. H. Wallace, M.A., D.D.

Registrar.—A. L. Langford, M.A.

Bursar.—Rev. W. C. B. Caswell, B.A.

Degrees conferred.—B.D. and D.D. (Honorary)—B.D., Black alpaca, lined with purple silk and trimmed with ermine; D.D., scarlet broadcloth, lined with purple silk.

PROFESSORS.

FACULTY OF ARTS.

See UNIVERSITY OF TORONTO.

FACULTY OF THEOLOGY.

Professors:

Rev. F. H. Wallace, *New Testament Exegesis and Literature.*

Rev. J. F. McLaughlin, *Old Testament Exegesis and Literature.*

Rev. R. P. Bowles, *Systematic and Historical Theology.*

W. B. Lane, *Ethics and Didactics.*

W. H. Greaves, *Public Speaking.*

Rev. J. W. Macmillan, *Sociology.*

Associate Professors:

Rev. J. H. Michael, *New Testament Exegesis.*

Rev. A. J. Johnston, *Homiletics and Pastoral Theology and Church History.*

Rev. F. W. Langford, *Religious Pedagogy.*

Rev. W. A. Potter, *Old Testament Exegesis and Literature.*

W. T. Brown, *Ethics and Apologetics.*

4 Lecturers.

Post-Graduate Courses.—The B.D. Course is a post-graduate course, a degree in Arts being necessary in order to secure a B.D.

The Arts Faculty is a part of the University of Toronto Graduate Faculty, and does work in that Faculty.

Library.—The Birge-Carnegie. *Librarian*: A. E. Lang, M.A.

Museum.—All museum material is now loaned to the Royal Ontario Museum.

AFFILIATED INSTITUTIONS.

Albert College, Belleville, Ont.

Ontario Ladies' College, Whitby, Ont.

Alma College, St. Thomas, Ont.

Columbia College, New Westminster, B.C.

ST. MICHAEL'S COLLEGE, Toronto, Canada. (1852.)

The work of the University of Toronto is divided into seven parts, called faculties—for example, the Faculty of Medicine. St. Michael's College is connected with one of these faculties—the Faculty of Arts. The work of this faculty is carried on through four colleges, of which St. Michael's College is one. All four are on an equal standing except financially. University College is non-denominational, and is supported by University funds. The other three represent the interests of the Methodists, Catholics, and Anglicans respectively. Common affairs, such as examinations, are under common control; college matters, such as discipline, are regulated by individual colleges. The Colleges do not confer degrees; there is one degree for all. A student is said to be attending the University of Toronto, registered in the Faculty of Arts, and enrolled in St. Michael's College.

Terms : Two per year.

Students (Undergraduates) : 187.

OFFICIALS.

Superior.—Very Rev. H. Carr, C.S.B.

Assistant Superior.—Rev. F. G. Powell, C.S.B.

Registrar.—Rev. F. D. Meader, C.S.B.

PROFESSORS.

Professors :

Very Rev. H. Carr, *Greek, and History of Phil.*

Rev. F. G. Powell, *Logic and Metaphysics.*

Rev. F. D. Meader, *Ethics and Religious Knowledge.*

Rev. D. Cushing, *Cosmology.*

Rev. R. McBrady, *Latin and Greek.*

Rev. J. E. Pagean, *French.*

Rev. V. J. Murphy, *Latin.*

Rev. M. J. Oliver, *Psychology.*

Professors—Continued :

Rev. W. H. Murray, *French.*

Rev. E. J. McCorkell, *Social Ethics.*

W. P. M. Kennedy, *English.*

M. De Wulf, *Med eval Philosophy.*

Sir Bertram C. A. Windle, *Anthropology.*

Associate Professors :

Rev. F. G. Powell, *Latin.*

Rev. E. J. McCorkell, *English.*

Rev. M. J. Oliver, *German.*

Rev. H. S. Bellisle, *Logic.*

10 Lecturers.

AFFILIATED INSTITUTES.

Women students receive instruction at St. Joseph's College, and Loretto Abbey College.

ONTARIO VETERINARY COLLEGE, Toronto, Canada. (1862.)

Terms : Two per year.

Students : 78.

OFFICIAL.

President.—R. A. Falconer, K.C.M.G., D.Litt., LL.D. (University of Toronto).

Principal.—C. D. McGilvray, M.V.S.

Degrees conferred.—By the University of Toronto.

PROFESSORS.

Professors :

E. A. A. Grange, *Veterinary Hygiene.*

C. D. McGilvray, *Contagious Diseases, Special Therapeutics.*

J. N. Pringle, *Sporadic Diseases and Dentistry.*

R. D. McIntosh, *Obstetrics.*

D. R. Caley, *Surgery, Surgical Therapeutics, Restraint.*

J. A. Campbell, *Canine and Feline Diseases.*

H. D. Nelson, *Anatomy, Veterinary Physiology.*

R. Gwatken, *Bacteriology, Milk Hygiene.*

H. E. Batt, *Histology, Laboratory Pathology.*

Professors—Continued :

C. H. Weaver, *Meat Inspection.*

D. K. Smith, *Pathology.* [ology.

E. A. McCulloch, *Pathology, Parasitology.*

L. T. Addison, *Zoology, Embryology, Histology.*

P. L. Scott, *Pharmacy.*

C. A. Temple, *Materia Medica.*

R. K. Flemming, *Animal Husbandry.*

J. J. R. MacLeod (T), *Physiology.*

J. Hunter (T), *Biochemistry.*

R. B. Thomson (T), *Botany.*

E. F. Burton (T), *Physics.*

F. B. Allan (T), *Chemistry.*

D. W. Saunders, *Jurisprudence.*

J. Brown, *Economics.*

F. H. Kirkpatrick, *Public Speaking.*

Post-Graduate Courses.—No special post-graduate courses, as the final years' work is specially designed to meet the requirements of those desiring such a course, and to specialize in any branches they may select.

Library.—The Library is well supplied with books and journals relating to Medical and Veterinary Science.

Museum.—The Museum contains a large collection of Anatomical Specimens, both normal and pathological.

WYCLIFFE COLLEGE, Toronto, Canada. (1877.)

Terms : Two a year.

Students : 112.

The College is a Theological College only, the students take their Arts Course at the University of Toronto, and their Divinity at Wycliffe.

OFFICIALS.

President.—N. W. Hoyles Esq., B.A., K.C., LL.D.

Principal.—The Rev. Canon T. R. O'Meara, LL.D.

Hon. Treasurer.—F. C. Jarvis.

Degrees and Hoods.—

Diploma : Hood of Oxford shape, made of black stuff lined with dark blue silk, with an edging on the outside one half-inch wide of dark blue silk, and with a narrow white silk braid one inch from the edge.

Licentiate in Theology : Hood of black stuff lined with blue silk, with a white cord near the edge, after the manner in use in the University of Toronto.

Doctor of Divinity : Hood of red stuff with red silk lining and edged with white silk cord. The shape shall be that in use in the University of Cambridge.

There are 6 Professors and 2 Lecturers.

Post-Graduate Courses.—B.D. and D.D. degrees in Divinity under the General Synod of the Church of England in Canada.

Librarian : Professor McIntyre, M.A., B.D.

McMASTER UNIVERSITY, Toronto, Canada. (1887.)

Terms : Two per year. *Students* : Normally about 250; 175 in war-time.

OFFICIALS.

Chancellor.—A. L. McCrimmon, M.A., LL.D.

Registrar.—E. J. Bengough, B.A.

Degrees conferred :

<i>Degrees.</i>	<i>Hoods.</i>
B.A. - -	White lining, white fur trimming.
B.Sc. - -	Blue lining, white fur trimming.
M.A. - -	Japanese red lining.
B.Th. - -	Lavender lining.
B.D. - -	Old gold lining.
LL.D. - -	Scarlet edge and lining.
D.D. - -	Purple lining.

PROFESSORS.

Professors :

- A. L. McCrimmon, *Political Economy, Education and Sociology.*
- J. H. Farmer, *New Testament and Patristic Greek.*
- W. S. W. McLay, *English.*
- P. S. Campbell, *Greek.*
- J. Ten Broeke, *Philosophy, Psychology, Logic and Ethics.*
- R. W. Smith, *Biology.*
- E. M. Keirstead, *Systematic Theology and Apologetics.*
- W. Findlay, *Mathematics.*

Professors—Continued :

- J. L. Gilmour, *History of Doctrine and Practical Theology.*
- G. H. Campbell, *Latin.*
- B. Franzen-Swedelius, *French and Spanish.*
- H. F. Dawes, *Physics.*
- W. S. Wallace, *History.*
- P. W. Mueller, *German.*
- W. O. Walker, *Chemistry.*
- J. G. Brown, *Church History and Missions.*
- N. H. McNairn, *Geology and Mineralogy.*

5 Lecturers.

Post-Graduate Courses.—M.A. and B.D.

Librarian : Miss E. A. McGregor, B.A.

AFFILIATED INSTITUTIONS.

Brandon College, Brandon, Man.; also Academic Departments, Moulton College for Girls, Toronto, and Woodstock College for Boys in Woodstock, Ont.

THE ROYAL CANADIAN INSTITUTE, 198, College Street, Toronto, Canada.
(1849.)

The objects of the Institute are: To disseminate scientific knowledge, to encourage the study of the history of Canada and the investigation of its natural resources; to promote scientific research, and to further the application of science to industry. It maintains a library of scientific periodicals, and transactions of scientific societies from all parts of the world. It conducts a series of weekly lectures throughout the winter intended to keep the people in touch with the recent scientific advances, and to enlighten them on questions of public utility. It publishes Proceedings and Transactions.

OFFICIALS.

President.—Prof. J. C. Fields, Ph.D., F.R.S.

First Vice-President.—G. H. Locke, M.A.

Second Vice-President.—Prof. D. R. Keys, M.A.

Treasurer.—W. B. Tindall.

Secretary.—Prof. H. F. Dawes, Ph.D.

Editor.—Prof. J. H. Faull, Ph.D.

Librarian.—Prof. A. G. Huntsman, M.B.

Curator.—H. Jewell.

THE ROYAL ASTRONOMICAL SOCIETY OF CANADA, 198, College Street, Toronto.
(1890.)

OFFICIALS.

Honorary President.—O. Klotz, LL.D., D.Sc., F.R.A.S., F.R.A.S.C.

President.—A. F. Miller.

First Vice-President.—J. R. Collins.

Second Vice-President.—W. Bruce, J.P.

Secretary.—W. E. W. Jackson, M.A.

Treasurer.—H. W. Barker.

Recorder.—A. F. Hunter, M.A.

Librarian.—Prof. C. A. Chant.

Curator.—R. S. Duncan.

Centres at Ottawa, Peterborough, Hamilton, Regina, Guelph, Victoria, Montreal, and Winnipeg.

Members, 414.

Publications.—Journal (monthly) and Observers' Handbook (annually).

ONTARIO HISTORICAL SOCIETY, Toronto, Ontario, Canada.

Secretary.—A. F. Hunter.

Membership, 400.

It is housed in the Normal School Building, Toronto, where it has a collection of 2,294 volumes and 4,203 pamphlets, besides other historical collections. It publishes an annual historical volume of "Papers and Records," seventeen numbers of which have been published, and also an annual report of its business affairs.

TORTUGAS (Florida).

THE CARNEGIE INSTITUTION, DEPARTMENT OF MARINE BIOLOGY,

Loggerhead Key, Tortugas, Florida. (1903.)

Director.—Alfred G. Mayer, Princetown, N.Y.

Researches upon the physiology, ecology, and embryology of tropical marine animals; also upon problems of oceanography, the geology and biology of marine

limestones, the growth rate of corals, the reactions of tropical sea-gulls, and the mutations of island mollusks.

Temporary branch laboratories are situated at Nassau and at Andros Island (Bahamas), in Jamaica, and upon Murray Island, Torres Straits.

TRANSVAAL UNIVERSITY COLLEGE. See **PRETORIA.**

TRAVANCORE (South India).

TRAINING COLLEGE FOR TEACHERS, Thycaud, Trivandrum, Travancore, South India.

Affiliated to the University of Madras.

Session: July to April.

Students: 75.

College Budget: Rupees 45,200 per annum.

OFFICIALS.

Principal.—G. F. Clark, M.A., Ph.D.

Acting Principal.—K. Venkateswara Aiyer, B.A., L.T.

Vice-Principal.—S. G. Barker, B.Sc., Ph.D.

Acting Vice-Principal.—K. P. Ukkendan Unni Nair, M.A., L.T.

Degrees conferred.—As in University of Madras.

PROFESSORS.

K. P. U. U. Nair, *Nature Study.*

P. A. S. Aiyer, *Science.*

K. P. K. Nambiar, *Psychology.*

N. K. Iyengar, *Mathematics.*

K. C. Aiyer, *History.*

7 Lecturers.

Post-Graduate Courses.—The College prepares graduates for the L.T. Degree of the University of Madras.

Libraries.—

The College Library.

The Government Educational Bureau and Museum serves the whole State of Travancore.

TRINITY COLLEGE. See **DUBLIN.**

TRINITY COLLEGE. See **HARTFORD.**

TROY (New York).

RENSELAER POLYTECHNIC INSTITUTE, Troy, New York. (1824.)

Terms: Two per year.

Students: 980.

Budget: Income for year ending March 1st, 1918: \$256,500.

OFFICIAL.

President and Director.—Palmer Chamberlaine Ricketts, C.E., E.D., LL.D.

Degrees conferred.—C.E., M.E., E.E., Ch.E., B.S., M.C.E., M.M.E., M.E.E., M.Ch.E., M.S., Sc.D., Ph.D., D.Eng.

Hoods.—Cherry and white, the Institute colour with orange, the colour of the Engineer for the Engineering students, and yellow for the Bachelor of Science students.

PROFESSORS.

Professors :

P. C. Ricketts, *Mechanics.*

W. P. Mason, *Chemistry.*

C. W. Crockett, *Mathematics and Astronomy.*

W. L. Robb, *Electrical Engineering and Physics.*

E. R. Cary, *Geodesy, Road Engineering, and Topographical Drawing.*

J. M. Clarke, *Geology.*

Professors—Continued :

A. de Pierpont, *French Language and Literature.*

T. R. Lawson, *Rational and Technical Mechanics.*

A. M. Greene, *Mechanical Engineering.*

E. Touceda, *Metallurgy.*

E. F. Chillman, *Descriptive Geometry, Stereotomy, and Drawing.*

E. D. N. Schulte, *Electrical Engineering.*

Professors—Continued :

M. A. Hunter, *Electro-Chemistry*.
 A. T. Lincoln, *Physical Chemistry*.
 J. R. Du Preist, *Steam and Gas Engine Design*.
 R. P. Baker, *English*.
 W. C. Batchelor, *Physical Training and Hygiene*.
 H. E. Popp, *Hydraulic Engineering*.
 W. J. Williams, *Electrical Engineering and Physics*.
 F. W. Schwartz, *Analytical Chemistry*.

Assistant Professors :

J. McGiffert, *Mathematics*.
 W. W. Rousseau, *Geodesy, Road Engineering, and Engineering Botany*.
 L. W. Clark, *Rational and Technical Mechanics*.
 G. S. Thompson, *Rational and Technical Mechanics*.
 G. K. Palsgrove, *Mechanical Engineering*.
 A. L. Eno, *English*. [turers.
 32 Instructors, 5 Assistants, 5 Lec-

Post-Graduate Courses.—Railroad Engineering, Highway Engineering, Hydraulic Engineering, Sanitary Engineering, Structural Engineering, Steam and Gas Engineering, Electrical Engineering, Chemical Engineering, Machine Design, Chemistry, Pure and Applied Mathematics.

Library.—13,000 bound volumes and 13,738 pamphlets. (Wholly works in engineering and science.) *Librarian* : H. R. Peck. *Assistant Librarian* : N. E. Paletz.

Museums.—Geological, Mineralogical, Mechanical and Electrical Engineering, Chemical Engineering.

Learned Societies.—

Rensselaer Society of Engineers, Rensselaer Technical Society.
 Branch American Society of Civil Engineers.
 Branch American Society of Mechanical Engineers.
 Branch American Society of Electrical Engineers.

TUCSON (Arizona).

THE CARNEGIE INSTITUTION DEPARTMENT OF BOTANICAL RESEARCH,
 Desert Laboratory, Tucson, Arizona. (1905.)

Director.—D. T. MacDougal.

Investigatory Staff of four members.

The chief researches of the department have been concerned with a group of connected problems in growth, respiration, photosynthesis, parasitism, water relations, and enviroic reactions of plants.

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—D. W. Working.

TUSKAGEE (Alabama).

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—G. W. Carver.

UKIAH (California).

LATITUDE OBSERVATORY OF THE INTERNATIONAL GEODETIC ASSOCIATION.

U.S. Coast and Geodetic Survey, Ukiah, California, U.S.A.

Astronomer in Charge.—F. J. Neubauer, Ph.D.

UNIONTOWN (Alabama).

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—J. M. Burgess.

URBANA (Illinois).

UNIVERSITY OF ILLINOIS, Urbana, Illinois. (1867.)
 (With Medical, Dental, and Pharmaceutical Departments in Chicago.)

Terms : First Semester, September 22nd, 1919—February 5th, 1920.
 Second semester, February 9th—June 10th, 1920.
 Summer session, 8 weeks.
Students (1919-20): 7,157. *Budget* (1919-20): \$3,967,848.

OFFICIALS.

President.—E. J. James, Ph.D., LL.D.
Acting President.—D. Kinley, Ph.D., LL.D.
Registrar.—C. M. McConn, A.M.
Secretary.—H. E. Cunningham, A.B.
Comptroller.—L. Morey, A.B., B.Mus., C.P.A.
Dean of the College of Liberal Arts and Sciences.—K. C. Babcock, B.L., Ph.D., LL.D.
Dean of the College of Education.—C. E. Chadsey, Ph.D.
Acting Dean of the College of Commerce and Business Administration.—N. A. Westen, Ph.D.
Dean of the College of Engineering.—C. R. Richards, M.E., M.M.E.
Dean of the College of Agriculture.—E. Davenport, M.Agr., LL.D.
Dean of the College of Law.—H. W. Ballantine, A.B., LL.B.
Acting Dean of the Graduate School.—A. H. Daniels, Ph.D.
Dean of the College of Medicine.—A. C. Eycleshymer, Ph.D., M.D.
Dean of the College of Dentistry.—F. B. Moorehead, M.S., D.D.S., M.D.
Dean of the School of Pharmacy.—W. B. Day, Ph.G.
Director of the Library School.—P. L. Windsor, Ph.B.
Director of the School of Music.—J. L. Erb, F.A.G.O.
Dean of Men.—T. A. Clark, B.L.
Dean of Women.—Miss R. E. Campbell Mason, A.M.

Degrees conferred.—A.B., B.S., B.Mus., A.M., M.S., Ph.D., LL.B., J.D., B.L.S., M.Arch., A.E., C.E., E.E., E.M., M.E., M.D., D.D.S., Ph.G., Ph.C.

Hoods.—Lined with the official colours of the University (orange and blue), with binding or edging distinctive of the faculty to which the degree pertains, as follows: Arts and Letters, white; Philosophy, dark blue; Science, gold yellow; Law, purple; Medicine, green; Music, pink.

PROFESSORS.

LIBERAL ARTS AND SCIENCES.

Professors :

S. A. Forbes, *Entomology*. [*Literature*.
 H. J. Barton, *Latin Language and*
 D. K. Dodge, *English Language and*
Literature.
 E. B. Greene, *History*.
 T. A. Clark, *Rhetoric*.
 A. H. Daniels, *Philosophy*.
 E. J. Lake, *Art and Design*.
 T. E. Oliver, *Romance Languages*.
 J. W. Garner, *Political Science*.
 E. J. Townsend, *Mathematics*.
 W. A. Noyes, *Chemistry*.
 G. A. Miller, *Mathematics*.
 E. C. Hayes, *Sociology*.
 J. Goebel, *German*.
 B. H. Bode, *Philosophy*.
 H. B. Ward, *Zoology*.
 S. P. Sherman, *English*.
 J. A. Fairlie, *Political Science*.
 W. E. Burge, *Physiology*.
 M. Bentley, *Psychology*.
 W. Trelease, *Botany*.
 C. F. Hottes, *Plant Physiology*.
 F. L. Stevens, *Plant Pathology*.
 J. S. Kingsley, *Zoology*.
 C. W. Alvord, *History*.

Professors—Continued :

W. S. Bayley, *Geology*.
 L. M. Larson, *History*.
 O. E. Lessing, *German*.
 F. Smith, *Systematic Zoology*.
 J. Stebbins, *Astronomy*.
 K. McKenzie, *Romance Languages*.
 W. A. Oldfather, *Classics*.
 J. D. Fitz-Gerald, *Spanish*.
 A. S. Pease, *Classics*.
 C. Zeleny, *Zoology*.
 A. H. Lybyer, *History*.
 E. Bernbaum, *English*.
 D. H. Carnahan, *Romance Languages*.
 A. D. MacGillivray, *Systematic Entomology*.
 A. T. E. Olmstead, *History*.
 J. B. Shaw, *Mathematics*.
 A. B. Coble
 S. W. Parr, *Applied Chemistry*.
 E. Bartow, *Sanitary Chemistry*.
 G. F. N. Dailey, *Military Science and Tactics*.
 G. T. Flom, *Scandinavian*.
 T. E. Savage, *Stratigraphic Geology*.

Associate Professors :

H. V. Canter, *Classics*.
 D. F. McFarland, *Applied Chemistry*.

Associate Professors—Continued :

- H. G. Paul, *English*.
- J. M. Mathews, *Political Science*.
- R. D. Carmichael, *Mathematics*.
- W. S. Robertson, *History*.

Assistant Professors :

- E. C. Baldwin, *English*.
- N. C. Brooks, *German*.
- J. W. Folsom, *Entomology*.
- A. Emch, *Mathematics*.
- F. W. Scott, *English*.
- H. S. V. Jones, *English*.
- L. Bloomfield, *Comparative Philology and German*.
- V. E. Shelford, *Zoology*.
- A. R. Crathorne, *Mathematics*.
- J. Zeitlin, *English*.
- A. C. Cole, *History*.
- G. D. Beal, *Chemistry*.
- A. A. Harding, *Music*.
- H. F. Harrington, *Journalism*.
- O. Kamm, *Chemistry*.
- A. J. Kempner, *Mathematics*.
- W. B. McDougall, *Botany*.
- J. H. Reedy, *Chemistry*.
- G. E. Wahlin, *Mathematics*.
- C. H. Woolbert, *Public Speaking*.

COLLEGE OF EDUCATION.

Professors :

- H. A. Hollister, *Education*.
- G. A. Huff, *Physical Education*.
- B. R. Buckingham, *Education*.
- E. H. Cameron, *Educational Psychology*.
- I. S. Griffith, *Industrial Education*.

Associate Professors :

- W. S. Monroe, *Education*.
- R. F. Seybolt, „

Assistant Professors :

- J. L. Griffith, *Physical Education*.
- P. E. Belting, *Secondary Education*.
- J. McKinney, *Industrial Education*.

COLLEGE OF COMMERCE.

Professors :

- D. Kinley, *Economics*.
- E. R. Dewsnup, *Railway Administration*.
- E. L. Bogart, *Economics*.
- N. A. Weston, „
- H. T. Scovill, *Accountancy*.
- M. H. Robinson, *Industry and Transportation*.
- S. Litman, *Economics*.

Assistant Professors :

- E. J. Filbey, *Accountancy*.
- L. Morey, „
- M. H. Hunter, *Economics*.
- G. Watkins, „
- F. A. Russell, *Business Administration*.

COLLEGE OF ENGINEERING.

Professors :

- I. O. Baker, *Civil Engineering*.
- A. N. Talbot, *Municipal and Sanitary Engineering*.
- M. Brooks, *Electrical Engineering*.
- J. McL. White, *Architectural Engineering*.
- G. A. Goodenough, *Thermodynamics*.
- H. H. Stoek, *Mining Engineering*.
- A. P. Carman, *Physics*.
- C. T. Knipp, *Experimental Electricity*.
- F. R. Watson, *Experimental Physics*.
- J. Kunz, *Mathematical Physics*.
- N. C. Curtis, *Architectural Design*.
- C. R. Richards, *Mechanical Engineering*.
- E. B. Paine, *Electrical Engineering*.
- E. W. Washburn, *Ceramic Chemistry*.
- L. H. Rofine, *Architectural Engineering*.
- H. F. Moore, *Engineering Materials*.
- F. H. Newell, *Civil Engineering*.
- C. A. Ellis, *Structural Engineering*.
- O. A. Leutwiler, *Machine Design*.
- C. W. Parmelee, *Ceramic Engineering*.
- A. C. Willard, *Heating and Ventilation*.
- J. McB. Snodgrass, *Railway Mechanical Engineering*.
- M. L. Enger, *Theoretical and Applied Mechanics*.
- E. E. King, *Railway Civil Engineering*.
- J. T. Rood, *Railway Electrical Engineering*.

Associate Professors :

- F. B. Seelye, *Theoretical and Applied Mechanics*.
- W. M. Wilson, *Structural Engineering*.

Assistant Professors :

- E. H. Waldo, *Electrical Engineering*.
- J. E. Smith, *Civil Engineering*.
- R. K. Hursh, *Ceramic Engineering*.
- H. H. Jordan, *Engineering Drawing*.
- V. R. Fleming, *Theoretical and Applied Mechanics*.
- H. F. Gonnerman, *Theoretical and Applied Mechanics*.
- A. P. Kratz, *Mechanical Engineering*.
- E. H. Williams, *Engineering Physics*.
- W. F. Schulz, *Physics*.
- R. Newcomb, *Architecture*.
- R. T. Jones, „
- D. M. Allison, „
- C. E. Palmer, „
- H. W. Waterfall, *Mechanical Engineering*.
- J. B. Read, *Mining Engineering*.
- H. Z. Babbitt, *Municipal and Sanitary Engineering*.
- P. J. Kirfer, *Mechanical Engineering*.

COLLEGE OF AGRICULTURE.

Professors :

- E. Davenport, *Thermatology*.
 H. W. Mumford, *Animal Husbandry*.
 J. C. Blair, *Horticulture*.
 W. J. Fraser, *Dairy Farming*.
 H. S. Grindley, *Animal Nutrition*.
 C. S. Crandall, *Pomology*.
 J. W. Lloyd, *Olericulture*.
 J. G. Mosier, *Soil Physics*.
 L. H. Smith, *Plant Breeding*.
 H. A. Harding, *Dairy Bacteriology*.
 W. C. Coffey, *Sheep Husbandry*.
 R. Graham, *Animal Pathology*.
 W. L. Burlison, *Crop Production*.
 H. B. Dorner, *Floriculture*.
 J. L. Edmonds, *Horse Husbandry*.
 W. F. Handschin, *Farm Organization and Management*.
 B. S. Pickett, *Pomology*.
 F. H. Rankin, *Agricultural Extension*.
 J. E. Readhimer, *Soils*.
 H. P. Rusk, *Cattle Husbandry*.
 R. Stewart, *Soil Fertility*.
 I. Bevier (Miss), *Home Economics*.
 A. L. Whiting, *Soil Biology*.
 J. A. Detlefsen, *Genetics*.

Associate Professors :

- W. L. Gaines, *Milk Production*.
 M. J. Prucha, *Dairy Bacteriology*.
 J. C. Hackleman, *Farm Crops*.
 M. Bunch (Miss), *Home Economics Extension*.
 J. D. Bilsborrow, *Extension Service*.

Assistant Professors :

- A. W. Nolan, *Agricultural Extension*.
 E. W. Bailey, *Pomology*.
 A. F. Gustafson, *Soil Physics*.
 A. W. Jamison, *Agricultural Extension*.
 E. V. Alstine, *Agronomy*.
 F. N. Evans, *Landscape Gardening*.
 H. W. Anderson, *Pomology*.
 F. C. Bauer, *Soil Fertility*.
 P. A. Lehenbauer, *Plant Physiology*.
 H. H. Mitchell, *Animal Nutrition*.
 H. A. Ruehe, *Dairy Manufacture*.
 F. A. Wyatt, *Soil Fertility*.
 W. H. Smith, *Animal Husbandry*.
 G. Gusler " "
 R. R. Snapp " "
 F. A. Pearson, *Dairy Husbandry*.
 E. M. Clark " "
 J. G. Mackinnon, *Home Economics*.
 W. A. Ruth, *Pomology*.

COLLEGE OF LAW.

Professors :

- H. W. Ballantine, *Law*.
 O. A. Harker, *Law*.
 F. Green, "
 E. H. Decker, "
 J. N. Pomeroy "
 W. G. Hale, "

LIBRARY SCHOOL.

Director.—P. L. Windsor, *Librarian*.

Assistant Professors :

- F. Simpson, *Library Economy*.
 F. R. Curtis (Miss), *Library Economy*.

SCHOOL OF MUSIC.

Director.—J. I. Erb.

Assistant Professors :

- G. F. Schwartz, *Music*.
 A. A. Harding "

86 Associates, 3 Lecturers, 87 Instructors, 158 Assistants, 55 Scientific Assistants, 26 Graduate Assistants, and 18 Student Assistants.

COLLEGE OF MEDICINE.

Professors :

- G. P. Dreyer, *Physiology and Physiological Chemistry*.
 A. J. Ochsner, *Surgery and Clinical Surgery*.
 C. S. Williamson, *Medicine*.
 C. S. Bacon, *Obstetrics and Clinical Obstetrics*.
 C. Davison, *Surgery*.
 F. Tice, *Medicine*.
 J. McI. Patton, *Medicine*.
 N. H. Pierce, *Laryngology, Rhinology, and Otology*.
 A. C. Eycleshmyer, *Anatomy, Histology, and Embryology*.
 W. McI. Harsha, *Surgery and Clinical Surgery*.
 D. J. Davis, *Pathology and Bacteriology*.
 J. H. Hess, *Pediatrics*.
 A. E. Halstead, *Surgery and Clinical Surgery*.
 H. A. McGuigan, *Pharmacology, Materia Medica, and Therapeutics*.
 E. V. L. Brown, *Ophthalmology*.
 H. D. Singer, *Psychiatry*.
 C. E. Humiston, *Clinical Surgery*.

Associate Professors :

- R. S. Yarros, *Obstetrics and Clinical Obstetrics*.
 J. C. Beck, *Laryngology, Rhinology, and Otology*.
 N. M. Percy, *Clinical Surgery*.
 C. M. Jacobs, *Clinical Surgery (Orthopedic)*.
 F. Smithies, *Medicine*.
 E. L. Heintz, *Medicine and Clinical Medicine*.
 M. Lewison, *Physical Diagnosis*.
 G. F. Thompson, *Clinical Surgery*.
 V. D. Lespinasse, *Surgery (Genito-Urinary)*.
 A. R. Elliott, *Medicine*.
 V. E. Emmel, *Anatomy*.

Assistant Professors :

- C. V. Bachellet, *Obstetrics and Clinical Obstetrics.*
 J. M. Lang, *Clinical Gynecology.*
 F. D. Moore, *Surgery and Clinical Surgery.* [Obstetrics.
 O. H. Rohrlack, *Obstetrics and Clinical*
 W. H. Welker, *Physiological Chemistry.*
 E. F. Leonard, *Neurology.*
 R. L. Moodie, *Anatomy.*
 C. M. McKenna, *Surgery* (Genito-Urinary).
 B. F. Lounsbury, *Operative Surgery.*
 H. B. Thomas, *Surgery* (Orthopedic).
 W. C. Danforth, *Surgery.*
 C. F. Read, *Psychiatry.*
 H. C. Stevens, *Neurology.*
 J. A. Cavanaugh, *Laryngology, Rhinology, and Otology.*
 J. R. Harger, *Surgery.*
 K. A. Meyer, *Clinical Surgery.*
 W. J. Woolston, *Clinical Surgery and Gynecology.*
 R. Mosser, *Clinical Medicine.*
 F. Chauvet, *Physical Diagnosis.*
 H. E. Irish, *Pediatrics.*
 C. C. Rogers, *Surgery.*
 W. J. Crozier, *Physiology.*
 J. E. Royer, *Neurology and Psychiatry.*
 23 Associates, 3 Lecturers, 31 Instructors, and 20 Assistants.

COLLEGE OF DENTISTRY.

Professors :

- F. B. Moorehead, *Oral Surgery, Pathology, and Bacteriology.*

Post-Graduate Courses (Advanced Degrees).—A.M., M.S., Ph.D. Graduate courses offered in Agronomy, Animal Husbandry, Architecture, Astronomy, Bacteriology, Botany, Business Organization and Operation, Ceramic Engineering, Chemistry, Civil Engineering, Classics, Comparative Philology, Dairy Husbandry, Economics, Education, Electrical Engineering, English, Entomology, Geology, German, History, Home Economics, Horticulture, Mathematics, Mechanical Engineering, Mechanics (Theoretical and Applied), Mining Engineering, Municipal and Sanitary Engineering, Philosophy, Physics, Physiology, Political Science, Psychology, Railway Engineering, Romance Languages, Sociology, Transportation, Zoology.

Libraries.—The University Library includes all the books belonging to the colleges and schools of the University which are situated in Urbana, and also the libraries of the College of Medicine, and the School of Pharmacy in Chicago.

The several libraries contain 444,783 volumes, 109,528 pamphlets, and 3,051 maps. *Librarian :* P. L. Windsor, Ph.B.

Museums.—

- Classical Art and Archeology. *Curator :* A. S. Pease, Ph.D.
 European Culture. *Curator :* N. C. Brooks.
 Oriental. *Curator :* A. T. E. Olmstead, Ph.D.
 Natural History. *Curator :* F. C. Baker, B.S.

AFFILIATED INSTITUTIONS.

- | | |
|------------------------------------|------------------------------------|
| Agricultural Experimental Station. | State Water Survey. |
| Engineering Experimental Station. | State Geological Survey. |
| Natural History Survey. | Board of Examiners in Accountancy. |

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Univ Calif - Director.—E. Davenport. *Microsoft* ®

Professors—Continued :

- D. M. Gallie, *Operative Dentistry and Operative Technics.*
 G. W. Dittmar, *Prosthetic Dentistry and Prosthetic Technics.*
 F. B. Noyes, *Orthodontia and Dental Histology.*
 E. D. Coolidge, *Materia Medica and Therapeutics.*
 A. C. Eycleshymer, *Anatomy, Histology, and Embryology.*
 G. P. Dreyer, *Physiological Chemistry.*
 D. J. Davis, *Pathology and Bacteriology.*

Associate Professors :

- L. Schultz, *Oral Surgery and Pathology.*
 L. E. Bake, *Operative Dentistry.*
 S. P. Starr, *Prosthetic Technics.*
 V. E. Emmel, *Anatomy.*

Assistant Professors :

- W. H. Welker, *Physiological Chemistry.* [try.
 R. L. Moodie, *Anatomy.* [ing).
 F. J. Bernhard, *Oral Surgery* (Extract-
 J. C. McGuire, *Roentgenology.*
 W. I. Williams, *Operative Dentistry.*
 3 Associates, 1 Lecturer, 12 Instructors, and 10 Assistants.

SCHOOL OF PHARMACY.

Professors :

- W. B. Day, *Materia Medica and Botany.*
 M. A. Miner, *Pharmacy.*

Assistant Professors :

- C. M. Snow, *Pharmacy.*
 A. H. Clark, *Chemistry.*
 1 Lecturer, 4 Instructors.

VALLETTA (Malta).

UNIVERSITY OF MALTA, Valletta, Malta. (1592.)

(Originally as a College by Gr. Master Verdala, and in 1769 as a University by G. M. Pinto and Pope Clement IV., now governed under statute of 1915.)

The University is a Roman Catholic Institution under direct control of the Government. There are internal and external students, the latter study in recognized Institutions, or under recognized teachers. The Degrees and Diplomas are open equally to both sexes.

Terms : Three per year.

Students : 300.

Budget : Expenditure about £8,000; Revenue, £3,000 from fees; £1,500 from endowments; and the rest from Government subsidy, the University being a State Institution.

OFFICIALS.

Visitor.—His Ex. the Governor in Council.—General Sir H. C. O. Plumer, G.C.B. G.C.M.G., G.C.V.O., A.D.S.

Officer Representing the Government.—His Hon. the Lieutenant Governor.—His Hon. W. C. F. Robertson, C.M.G.

Rector of the University.—The Hon. Prof. E. Magro, M.D.

Registrar and Secretary to the General Council.—H. P. Scicluna, L.P., F. Cannilleri, (Acting).

Accountant and Procurator.—V. Territile.

Curator of Museums.—G. Despott.

Degrees conferred :

Degrees.

Hoods

B.Litt. - - -	Black silk, lined with pink silk.
B.Sc. - - -	Black silk, lined with yellow silk.
B.Eng.A. - -	Black silk, lined with yellow silk, edged with green silk.
B.L.Can. - -	Black silk, lined with purple silk, edged with blue silk.
LL.B. - - -	Black silk, lined with blue silk.
M.B., Ch.B. -	Black silk, lined with crimson silk.
B.D. - - -	Black silk, lined with purple silk.

PROFESSORS.

C. Samut, *Anatomy and Histology.*

T. Zammit, *Chemistry.* [ecture.

R. V. Galea, *Engineering and Archi-*

F. Debono, *Hygiene.*

D. Fallon, *English Literature.*

A. Bartoli, *Latin and Italian Literatures.*

G. Caruana, *Civil Law.*

A. Mercieca, *Commercial Law.*

E. C. Vassallo, *Constitutional and International Laws.*

L. A. Randon, *Criminal Law.*

A. Cuschieri, *Logic and Philosophy.*

W. F. Nixon, *Mathematics and Practical Engineering.*

J. L. Gatt, *Applied Meccanics.*

C. Mifsud, *Medicine.*

G. Debono, *Midwifery and Gynecology.*

S. Cassar, *Surgery.*

F. Debono, *Natural History.*

T. Agius, *Physics.*

G. Formosa, *Dogmatic Theology.*

C. C. Grima, *Moral Theology.*

8 Lecturers, 4 Assistants, and 1 Demonstrator.

Libraries.—

University Reference Library, about 5,000 volumes.

Public Library, about 100,000 volumes, many MSS., and rare editions, and illuminated books.

Librarians : The Most Rev. Canon A. Mifsud, LL.B., Ph.D., D.D., and F. Cannilleri.

Museums.—

The Archeological Museum, rich in prehistoric exhibits (local, but of the greatest importance).

The University Natural History Collections of local Fauna and Flora.

The University Fossil and Palaeontological Museum (local, but also of unique importance).

Argotti Botanical Gardens.

Meteorological Observatory.

AFFILIATED INSTITUTIONS.

The Archiepiscopal Seminary, Malta.

Flores's College, Malta.

The Seminary, Goro.

St. Aloysius College, Malta.

VANCOUVER (British Columbia).

THE UNIVERSITY OF BRITISH COLUMBIA, Vancouver, B.C., Canada. (1915.)

Terms : Two a year.*Students* (1918-19): 538.*Budget* : (1918-19): \$274,543.

OFFICIALS.

Visitor.—Sir F. S. Barnard (Lieut.-Governor of British Columbia).*Chancellor*.—R. E. McKechnie, M.D., C.M.*President*.—L. S. Klinck, M.S.A.*Dean of the Faculty of Arts and Sciences*.—(Vacant.)*Dean of the Faculty of Agriculture*.—F. M. Clement, B.S.A. (Prof. of Horticulture).*Dean of the Faculty of Applied Science*.—R. W. Brook, M.A., F.R.S.C., (Prof. of Geology).*Registrar*.—Stanley W. Matthews, M.A.*Bursar*.—F. Dallas.**Degrees conferred**.—M.A., M.Sc., B.A., B.Sc., B.S.A.*Hoods*.—The Bachelor's Hood is of the Cambridge pattern, black bordered with the distinctive colour of the particular faculty; the Master's Hood is lined with the same colour. The colours are: for Arts, University blue; for Science, red; for Agriculture, maize.

PROFESSORS.

Professors :R. W. Brock, *Geology*. (Dean of the Faculty of Applied Science.)F. M. Clement, *Horticulture*. (Dean of the Faculty of Agriculture.)L. S. Klinck, *Agronomy*. (President.)G. E. Robinson, *Mathematics*.T. H. Boggs, *Economics, Sociology, and Political Science*.D. McIntosh, *Chemistry*.J. A. McLean, *Animal Husbandry*.R. H. Mullin, *Bacteriology*.J. M. Turnbull, *Mining*.H. N. Thomson, *Metallurgy*.**Associate Professors :**E. H. Archibald, *Chemistry*.H. Ashton, *French*.A. F. Barss, *Horticulture*.P. A. Boving, *Agronomy*.R. H. Clark, *Chemistry*.T. C. Hebb, *Physics*.J. G. Davidson, *Physics*.J. Henderson, *Philosophy*.A. H. Hutchinson, *Botany*.L. Killam, *Mechanical Engineering*.A. G. Lunn, *Poultry Husbandry*.L. F. Robertson, *Classics*.W. Sadler, *Dairying*.G. G. Sedgewick, *English*.**Assistant Professors :**A. F. B. Clark, *French*.M. Eastman, *History*.J. K. Henry, *English*.E. T. Hodge, *Geology*.E. E. Jordan, *Mathematics*.H. M. King, *Animal Husbandry*.H. T. Logan, *Classics*.I. MacInnes, *Modern Languages*.E. G. Matheson, *Civil Engineering*.G. G. Moe, *Agronomy*.

E. H. Russell, ,,

W. N. Sage, *History*.O. J. Todd, *Classics*.F. G. C. Wood, *English*.H. F. Angus, *Economics*.J. Davidson, *In Charge of Herbarium and Botanical Gardens*.P. N. Elliott, *Physics*.G. A. Gillies, *Mining*.G. Grojean, *Modern Languages*.A. E. Hennings, *Physics*.H. Karr-Simpson (Miss), *Modern Languages*.Thorleif Larsen, *English*.W. L. MacDonald, *English*.L. Richardson, *Mathematics*.C. C. Ryan, *Mechanical Engineering*.W. L. Uglow, *Geology*.

17 Instructors, Demonstrators, etc.

Post-Graduate Courses.—Master of Arts, Master of Science.**Library**.—The University Library, consisting of 31,000 volumes and about 9,000 pamphlets. *Librarian* (Acting): J. Ridington.

AFFILIATED INSTITUTIONS.

None as yet. Provision is made in the "British Columbia University Act" of affiliation of theological colleges with the University. Any normal school organized by the Department of Education for the instruction and training of teachers in the Science of Education and the art of teaching may be affiliated with the University.

VANCOUVER INSTITUTE.

The objects of the Institute are the study and cultivation of the Arts, Sciences, Literature, Music and kindred subjects, by means of lectures, exhibitions, publications, and such other means as may from time to time be deemed advisable.

AFFILIATED ORGANIZATIONS.

- Art, Historical, and Scientific Society.
- Academy of Science.
- Archeological Institute.
- Architects' Institute of British Columbia.
- Vancouver Natural History Society.
- Vancouver Trades and Labour Council.
- Vancouver Teachers' Association.
- Women's University Club.
- B. S. Society of Fine Arts.
- B. C. Chamber of Mines.
- Alpine Club of Canada.

VANDERBILT UNIVERSITY. *See* NASHVILLE.

VASSAR COLLEGE. *See* POUGHKEEPSIE.

VICTORIA UNIVERSITY. *See* MANCHESTER.

VICTORIA UNIVERSITY. *See* TORONTO.

WASHINGTON (District of Columbia).

WASHINGTON UNIVERSITY. *See* ST. LOUIS.

GEORGETOWN UNIVERSITY, Washington, D.C. (1788.)

Terms : Two per year.

Students : 2,140.

OFFICIALS.

- President*.—Rev. J. B. Creeden, S.J.
- Dean*.—Rev. W. Coleman Nevils, S.J.
- Secretary*.—Rev. T. I. Gasson, S.J.

Degrees conferred.—D.D., LL.D., Ph.D., Litt.D., Sc.D., M.D., D.D.S., Phar.D., Mus.D., Ph.L., LL.M., L.D.M., M.S., LL.B., A.B., Ph.B., B.S., Mus.B., B.S. in Med.

PROFESSORS.

SCHOOL OF MEDICINE AND DENTISTRY.

Professors :

- S. S. Adams, *Theory and Practice of Medicine.*
- E. R. Stitt, *Tropical Medicine.*
- W. G. Morgan, *Gastro-Enterology.*
- G. M. Kober, *Hygiene.*
- H. S. Bernton, *Medical Jurisprudence.*
- J. D. Thomas, *Physical Diagnosis.*
- R. Devereux, *Therapeutics.*
- W. M. Barton "
- C. L. Griffith, *Materia Medica.*
- R. A. Hamilton, *Pathology.*
- W. D. Webb, *Surgical.*
- H. F. Strine "
- J. D. Hid, *Toxicology.*
- F. A. Tondorf, *Physiology.*
- F. A. Casteel, *Operative Dentistry.*
- S. W. Bowles "
- B. L. Taylor, *Dental Pathology.*
- P. B. Bain, *Prosthetic Dentistry.*

Professors—Continued :

- H. Hopkins, *Orthodontia.*
- H. J. Nichols, *Oral Surgery.*
- W. B. Hoofnagle, *Dental Medicine.*
- C. A. Baker, *Crown and Bridge Work.*

Associate Professors :

- E. B. Behrend, *Medicine.*
- I. A. O'Donoghne, *Clinical Medicine.*
- J. A. Foote "
- W. D. Tewksbury, *Physical Diagnosis.*
- F. Schon, *Physical Diagnosis.*
- L. F. Kebler, *Materia Medica.*
- R. G. Blaine, *Toxicology.*
- W. F. Henler, *Anatomy.*
- T. B. Johnson "
- F. Cary, *Prosthetic Dentistry.*

Assistant Professors :

- L. B. T. Johnson, *Hygiene.*
- J. J. McCarthy, *Physiology.*
- J. F. Crowley "
- P. S. Madigan "

Assistant Professors—Continued :

G. E. Ellis, *Physiology*.
P. Newton, *Anatomy*.
J. Pracher ,,

Clinical Professors :

T. S. Lee, *Medicine*.
C. C. Marbury, *Medicine*.
F. Leech, *Infectious Diseases*.
3 Associates, 16 Instructors, 6 Lec-
turers, 2 Assistants.

**FACULTY OF ARTS AND
SCIENCES.**

Professors :

Rev. E. I. Devitt, *Colonial History*.
Rev. T. I. Gasson, *Evidences of Reli-
gion*.
Rev. V. S. McDonough, *Elocution*.
Rev. A. P. Brosnan, *Ethics and
Elocution*.
Rev. J. G. Causey, *Psychology and
Natural Theology*.
Rev. J. T. Toohey, *Logic*.
F. X. Siggins, *Rhetoric*.
J. F. Shea, *Poetry*.
Rev. C. H. Mahan, *Poetry and Elocution*.
A. M. Guenther, *Poetry and German*.
J. C. Glose, *Philosophy and English*.
Rev. P. Archer, *Astronomy*.
Rev. H. I. Storek, *Chemistry*.
Rev. T. H. Miley, *Mathematics and
Mechanics*.
A. B. Langguth, *Chemistry and Mathe-
matics*.
T. J. Love, *Physics*.
Rev. H. J. Shandelle, *German*.
Rev. L. S. Weber, *French*.
N. Boyton, *English*.
B. A. Leeming, *Latin*.
Rev. C. Briones, *Spanish*.
Rev. J. F. K. Murphy, *History and
Economics*.
A. De Yturbide, *French*.
J. E. Grattan, *Music*.

Professors—Continued :

J. E. Bates, *Accounting*.
E. V. Bookmiller, *Military Science*.

SCHOOL OF LAW.

Lecturers :

G. E. Hamilton, *Legal Ethics*.
Hon. J. H. Covington, *Associations*.
Hon. A. M. Gould, *Contracts and
Equity*.
J. W. Yerkes, *Railroad Law*.
Hon. H. S. Boutell, *International Law*.
J. J. Hamilton, *Real Property and
Bankruptcy*.
A. A. Hoehling, *Real Property and
Evidence*.
J. S. Easby-Smith, *Personal Property*.
F. J. Hogan, *Evidence, Wills, and
Trial Practice*.
D. W. O'Donoghue, *Common Law
Pleading*.
J. C. Adkins, *Sales and Bailments, and
Criminal Procedure*.
J. E. Laskey, *Criminal Law and
Domestic Relations*.
W. J. Hughes, *Federal Practice and
Procedure*.
T. Ewing, *Patent Law*.
H. J. Fegan, *Law of Insurance and
Agency*.
F. S. Maquire, *Patent Law Practice*.
C. J. Murphy, *Negotiable Instruments
and Torts*.
Rev. T. I. Gasson, *Natural Law and
Canon Law*.
M. Smith, *Civil Law*.
R. C. Minor, *Conflict of Laws*.
J. D. Sullivan, *Real Property*.
R. S. Harvey, *Interpretation of Foreign
and Domestic Commerce Legislation*.

Professor :

W. J. Kavanagh, *Argumentation and
Public Speaking*.
2 Assistant Professors.

Post-Graduate Courses in the Departments of Philosophy, Economics, Language and Literature, History and Science.

Library.—Riggs' Memorial Library, 110,000 volumes. *Librarian* : Rev. H. J. Shandelle.

Museums.—

Coleman Museum of Natural History.
Seismological Observatory. *Director* : Rev. F. A. Tondorf.
Astronomical Observatory. *Director* : Rev. P. Archer.

THE GEORGE WASHINGTON UNIVERSITY, Washington, D.C. (1821.)

Sessions : Two, and a summer session.

Students : 3 400.

OFFICIALS.

President.—The Hon. W. M. Collier, M.A., LL.D.

Secretary.—E. L. Kayser, M.A.

Treasurer.—C. W. Holmes.

Department of Arts and Sciences :School of Graduate Studies: *Acting Dean*.—G. N. Henning, M.A., Litt.D.Columbian College: *Dean*.—W. A. Wilbur, A.M., Litt.D.College of Engineering: *Dean*.—H. L. Hodgkins, Ph.D.Teachers College and the Summer School: *Dean and Director*.—W. C. Ruediger, Ph.D.Law School: *Dean*.—M. Le Roy Ferson, M.A., LL.B.**Department of Medicine :***Dean*.—W. C. Borden, M.D.*Assistant Dean*.—O. B. Hunter, A.B., M.D.*Dean* (Dental School).—C. J. Mess, D.D.S.National College of Pharmacy: *Dean*.—H. E. Kalusowski, Phar.D.College of Veterinary Medicine: *Dean*.—D. E. Buckingham, V.M.D.**Degrees conferred :***Degrees.*

B.A. - - Hood of black woollen stuff, faced with white velvet, and lined with blue silk, with a buff chevron.

B.S. - - (In Medicine, Chemistry, Chemical Engineering, Architecture, Mechanical, Civil and Electrical Engineering) Hood same as for B.A., but faced in gold yellow velvet instead of white.

M.D. - - Same as above, with the exception of facing of green velvet.

D.D.S. - - Same as above, with lilac facing.

D.Ph. - - Same, but with olive facing.

D.V.M. - - Same, but with grey facing.

M.A. - - Same as B.A., and B.S., respectively, with the exception that hoods are one foot longer.

M.S. - - Hood has panels and is faced with blue.

Ph.D. - - Hood has panels and is faced with blue.

The Hoods for the honorary degrees differ from that of the Ph.D., in facing only.

D.D. is faced in scarlet; LL.D., in purple; D.Sc., in gold yellow; Music, in pink; Litt.D., in white.

Hoods.

PROFESSORS.

ARTS AND SCIENCES.**Professors :**H. L. Hodgkins, *Mathematics*.H. Schoenfeld, *German*.F. W. Clarke, *Mineral Chemistry*.W. A. Wilbur, *English*.C. C. Swisher, *History*.M. Carroll, *Archeology and History of Art*.P. Bartsch, *Zoology*.G. N. Henning, *Romance Languages*.A. B. Bibb, *Architecture*.A. Hall, *Astronomy*.A. Mann, *Botany*.S. I. Franz, *Experimental Psychology*.C. S. Smith, *Greek and Latin*.W. C. Ruediger, *Educational Psychology*.A. F. W. Schmidt, *German*.W. L. Moore, *Applied Meteorology*.W. J. Humphreys, *Meteorological Physics*.E. E. Richardson, *Philosophy*.G. W. Littlehales, *Nautical Science*.R. S. Bassler, *Geology*.R. R. Kern, *Economics*.A. L. Harris, *Architecture*.De W. C. Croissant, *English*.J. de S. Coutinho, *Portuguese Language and Literature*.L. Cohen, *Radio-Electricity*.**Professors :—Continued :**I. Schapiro, *Semitic Languages and Literature*.T. Michelson, *Ethnology*.C. E. Hill, *Political Science*.J. T. Erwin, *Mathematics*.A. S. Cushman, *Chemistry*.

H. C. McNeil, "

O. D. Swett, "

Assistant Professors :N. M. Hopkins, *Chemistry*.

E. A. Hill, "

L. R. Alden, *History*.B. Brown, *Architecture*.G. M. Churchill, *History*.E. R. Noyes, *Chemistry*.T. B. Brown, *Physics*.C. C. Kochenderfer, *Commerce*.H. D. Doyle, *Romance Languages*.L. E. McArthur, *History*.E. L. Kayser, *History*.

3 Lecturers.

COLLEGE OF ENGINEERING.**Professor :**A. B. McDaniel, *Civil Engineering*.**Assistant Professors :**J. R. Lapham, *Civil Engineering*.W. D. Halsey, *Mechanical Engineering*.A. E. Johnson, *Naval Architecture*.

Assistant Professors—Continued :

- K. Honoman, *Electrical Engineering*.
 S. R. Parsons, *Mechanics*.
 L. D. Norsworthy, *Civil Engineering*.
 21 Lecturers.

SCHOOL OF LAW.

Professors :

- M. L. Ferson, *Law*.
 W. C. Clephane, *Law*.
 E. C. Brandenburg, *Law*.
 A. Peter, *Law*.
 J. P. Earnest, *Law*.
 W. P. Stafford ,,
 J. W. Latimer ,,

Associate Professor :

- L. H. Sutton, *Patent Law*.

Assistant Professors :

- A. King, *Law*.
 W. C. Van Vleck, *Law*.
 C. S. Collier ,,
 M. I. Schnebly ,,
 J. M. McFall ,,
 1 Lecturer.

SCHOOL OF DENTISTRY.

Professors :

- C. J. Mess, *Prosthetic Dentistry*.
 A. S. Wolfe, *Operative Dentistry and Oral Surgery*.
 C. S. White, *Oral Surgery*.
 O. B. Hunter, *Bacteriology and Pathology*.
 T. R. Wilkerson, *Oral Hygiene*.
 H. C. Hopkins, *Orthodontia*.
 C. L. Constantini, *Ethics and Dental History*.
 J. R. DeFarges, *Dental Jurisprudence*.
 A. B. Bibb, *Technical Drawing*.
 C. R. Shelton, *Dental Economics*.
 A. B. Crane, *Mouth Infections*.

Associate Professors :

- J. W. Bernhard, *Crown and Bridge Work*.
 W. L. Hagen, *Operative Technics*.
 C. G. Shoemaker, *Operative Technics*.
 J. W. Taylor, *Prosthetic Technics*.
 H. C. Young ,,
 H. Becker, *Crown and Bridge Work*.
 E. J. Copping, *Orthodontia*.
 J. R. Palkin, *Oral Surgery*.
 R. L. Morrison, *Operative Dentistry*.
 P. S. Putzki, *Oral Surgery*.
 E. R. Hagen, *Prosthetic Dentistry*.
 S. V. Mead, *Roenctgenology*.
 J. H. Roe, *Chemistry*.
 W. W. Wyman, *Prosthetic Dentistry*.
 V. J. Lohr, *Crown and Bridge Work*.
 9 Lecturers.

SCHOOL OF MEDICINE.

Professors :

- W. C. Borden, *Surgery*.
 O. B. Hunter, *Bacteriology and Pathology*.

Professors—Continued :

- G. N. Acker, *Pediatrics and Medicine*.
 S. Ruffin, *Medicine*.
 C. W. Richardson, *Laryngology, Rhinology, and Otolology*.
 J. W. Boves, *Gynecology*.
 R. B. Carmichael, *Dermatology*.
 F. R. Hagner, *Genito-Urinary Surgery and Venereal Diseases*.
 W. A. White, *Psychiatry and Clin. of Neurology*.
 S. I. Franz, *Physiology*.
 B. M. Randolph, *Materia Medica and Therapeutics*.
 L. A. La Garde, *Military Surgery and Sanitation*.
 C. L. Davis, *Anatomy, Histology, and Embryology*.
 E. R. Lawson, *Obstetrics*.
 H. W. Lawson ,,
 F. A. Hornaday, *Chemistry and Dietetics*.
 T. C. Martin, *Proctology*.
 E. Snowden, *Hygiene and Clin. Asso. in Obstetrics*.
 T. Abbe, *Roentgenology*.
 M. E. Higgins, *Tropical Medicine*.
 J. C. Pryor, *Preventive Medicine and Hygiene*.
 H. S. Bernton, *Medical Jurisprudence*.
 W. T. Davis, *Ophthalmology*.
 J. K. Butkiewicz, *Histology*.
 W. H. Schultz, *Pharmacology*.
 C. L. Hall, *Orthopedic Surgery*.

Associate Professors :

- C. S. White, *Surgery*.
 D. Le R. Borden, *Surgery*.
 G. F. Clark, *Tropical Medicine*.
 T. Cajigas, *Bacteriology and Pathology*.
 J. H. Roe, *Chemistry*.
 J. B. Nichols, *Medicine*.
 E. P. Copeland, *Pediatrics*.
 H. R. Elliott, *Physiology*.
 J. L. Riggles, *Gynecology*.
 W. C. Moore, *Medicine*.
 C. B. Conklin ,,
 C. W. Hyde ,,
 W. J. Mallory ,,
 J. L. Thompson ,,

Clinical Professors :

- A. R. Shands, *Orthopedic Surgery*.
 T. A. Claytor, *Medicine*.
 A. L. Staveley, *Gynecology*.
 L. H. Reichelderfer, *Surgery*.
 G. B. Miller, *Gynecology*.
 W. S. Bowen, *Obstetrics*.
 O. A. M. McKimmie, *Laryngology and Otolology*.
 F. Leech, *Medicine*.
 H. H. Kerr, *Surgery*.
 W. P. Reeves ,,

Clinical Associates :

T. Linville, *Medicine*.
 H. H. Donnally, *Pediatrics*.
 C. A. Simpson, *Dermatology*.
 J. D. Rogers, *Surgery and Obstetrics*.

R. Y. Sullivan, *Obstetrics*.
 J. C. Hassall, *Psychiatry and Neurology*.
 E. M. Ellison, *Medicine*.
 35 Lecturers.

Post-Graduate Courses.—The degree of Doctor of Philosophy, of Master of Arts, Master of Science, and of Civil, Mechanical, and Electrical Engineer are granted for Graduate work.

Graduate Instruction is offered in the following departments:

Applied Mathematics, Archeology, Architecture, Anatomy, Astronomy, Astro-Physics, Bacteriology, Botany, Chemistry, Economics, Education, Civil Engineering, Electrical Engineering, Hydraulic Engineering, Ethnology, Mechanical Engineering, English, Ethics, Geology and Mineralogy, Germanic Languages and Literature, Greek Language and Literature, Gynecology, Histology, Embryology, History, History of Art, International Law and Diplomacy, Latin Language and Literature, Law, Mathematics, Meteorology, Microscopy, Nautical Science, Paleontology, Pathology, Philosophy, Physics, Physiology, Pharmacology, Political Sciences, Preventive Medicine, Psychiatry, Psychology, Romance Language and Literature, Semitics, Sociology, Zoology.

Libraries.—

The University Library.
 Arts and Sciences Library, 45,000 bound volumes.
 The Law Library, 8,000 bound volumes.
 The Medical Library, 3,000 bound volumes.
Librarians : A. F. W. Schmidt (The University Library); W. H. Schultz (The Medical Library).

Societies.—

The Chemical Society.
 The Engineering Society.
 The Medical Society.
 The Black Society (Dental).

AFFILIATED INSTITUTIONS.

National College of Pharmacy.
 College of Veterinary Medicine.

THE CATHOLIC UNIVERSITY OF AMERICA, Washington, D.C. (1889.)

Students : 1,785.

OFFICIALS.

Chancellor.—His Eminence, J. Cardinal Gibbons.
Rector.—Right. Rev. T. J. Shahan, S.T.D., J.V.L., LL.D.
Secretary.—Very Rev. E. A. Pace, Ph.D., S.T.D.
Registrar.—C. F. Borden, A.M., LL.B.

Degrees conferred.—J.C.B., S.T.B., J.C.L., S.T.L., J.C.D., S.T.D., LL.B., A.B., Ph.B., B.S., B.S. in Chem.Eng., B.S. in Arch., B.S. in Arch.Eng., B.S. in C.E., B.S. in E.E.

PROFESSORS.**THE SCHOOL OF THE SACRED SCIENCES.****Professors :**

Right Rev. T. Shahan, *Ecclesiastical History*.
 Very Rev. E. Shanahan, *Dogmatic Theology*.
 Very Rev. C. Aiken, *Apologetics*.
 Very Rev. D. Kennedy, *Sacramental Theology*.
 Very Rev. P. Healy, *Ecclesiastical History*.
 Rev. F. Coln, *Sacred Scripture*.
 Rev. J. Ryan, *Moral Theology*.

Associate Professors :

Rev. H. Schumacher, *New Testament Scripture*.
 Rev. P. Guilday, *American Church History*.
 Right Rev. F. Bernardini, *Canon Law*.
 5 Instructors.

THE SCHOOL OF LETTERS.**Professors :**

Very Rev. H. Hyvernatt, *Biblical Archeology, Semitic Languages and Literature*.

Professors—Continued :

P. J. Lennox, *English Language and Literature.*
 J. Dunn, *Celtic Languages and Literatures.*

Associate Professors :

F. J. Hemelt, *English Language and Literature.*
 Rev. A. A. Vaschalde, *Semitic Languages and Literatures.*
 Rev. R. Butin, *Semitic Languages and Literatures.*
 12 Instructors.

THE SCHOOL OF PHILOSOPHY.

Professors :

Very Rev. E. A. Pace, *Philosophy.*
 Rev. W. J. Kerby, *Sociology.*
 Rev. T. E. Shields, *Psychology and Education.*
 C. H. McCarthy, *American History.*
 F. O'Hara, *Economics.*
 Rev. P. J. McCormick, *Education.*

Associate Professors :

Rev. J. J. Fox, *Ethics.*
 Rev. N. A. Weber, *History.*

Post-Graduate Courses in all faculties.

Libraries.—

Law Library of 13,500 volumes.
 General Library of 120,000 volumes, and ten Departmental Libraries.
Librarians : T. C. Carrigan (Law Library); J. Schneider (General Library).

Museums.—

General Museum. *Curator :* Rev. R. Butin.
 Sociological Museum. *Curator :* Rev. W. J. Kerby.
 Chemical Museum. *Curator :* Very Rev. J. J. Griffin.
 Herbarium. *Curator :* J. B. Parker.
 Astronomical Observatory. *Director :* A. Doolittle.

UNITED STATES COAST AND GEODETIC SURVEY, 205, New Jersey Avenue, Washington, D.C.

Superintendent.—E. L. Jones.
Assistant Superintendent.—R. L. Farris.
Hydrographic and Geodetic Engineer in charge of Office.—P. A. Welker.
Chief of Division of Hydrography and Topography.—W. E. Parker.
Chief of Chart Division.—R. S. Patton.
Chief of Division of Geodesy.—W. Bowie.
Chief of Division of Terrestrial Magnetism.—J. T. Watkins.

Library.—30,000 volumes; 10,000 pamphlets; 80,000 original records of observations; 8,000 original Hydrographic and Topographic Sheets; 70,000 Charts, Maps, blue prints, and atlases. *Librarian :* W. A. Masker, jr.

UNITED STATES GEOLOGICAL SURVEY, Washington, D.C. (1879.)

Engaged in researches regarding the characters, origin, distribution, and structure of the geological formations; the mineral resources, their nature, qualities, relations, and amounts; the classification of the lands of the national domain, and the determination of the nation's water resources, and makes topographic maps of the entire country.

Yearly appropriation, approximately \$1,500,000.

Has published some 1,500 volumes of reports, and over 2,500 standard topographic maps.

Associate Professors—Continued :

Rev. C. A. Dubray, *Philosophy.*
 J. L. Ulrich, *Psychology.*
 Rev. P. Robinson, *History.*
 9 Instructors.

THE SCHOOL OF LAW

Professors :

T. C. Carrigan, *Law.*
 P. J. McLoughlin, *Law.*

Associate Professor :

W. H. De Lacy, *Law.*
 5 Instructors.

THE SCHOOL OF SCIENCES.

Professors :

Very Rev. J. J. Griffin, *Chemistry.*
 D. W. Shea, *Physics.*
 A. E. Landry, *Mathematics.*
 J. B. Parker, *Biology.*

Associate Professors :

G. A. Weschler, *Mechanical Engineering.*
 T. J. MacKavanagh, *Electrical Engineering.*
 16 Instructors.

OFFICIALS.

Director.—George Otis Smith.

Administrative Geologist.—Philip S. Smith.

Chief Clerk.—H. C. Rizer.

Chief Geologist (Geologie Branch).—D. White.

Geologist in Charge of Divisions (Geology).—S. Paige.

STAFF.

Geologists in charge of Divisions :

Sidney Paige, *Geology*.

A. H. Brooks, *Alaskan Mineral Resources*.

E. S. Bastin, *Mineral Resources*.

Geologists in charge of Sections :

A. Keith, *Eastern Areal Geology*.

S. Paige, *Western Areal Geology*.

T. W. Vaughan, *Coastal Plain Investigations*.

F. L. Ransome, *Metalliferous Deposits*.

H. S. Gale, *Non-Metalliferous Deposits*.

M. R. Campbell, *Coal Fields*.

D. White, *Oil and Gas*. [Metals.]

E. F. Burchard, *Iron and Steel Alloy*

W. C. Alden, *Glacial Geology*.

T. W. Stanton, *Paleontology and Stratigraphy*.

E. S. Larsen, *Petrology*.

G. W. Steiger, *Chemistry*.

C. E. Van Orstrand, *Physics*.

G. F. Loughlin, *Production of Metals*.

R. W. Stone, *Production of Non-Metals*.

C. E. Leshner, *Production of Mineral Fuels*. [serves.]

Eugene Stebinger, *Foreign Mineral Resources*
95 Geologists, etc.

Topographic Branch.

Chief Topographic Engineer.—C. H. Birdseye.

Geographers in charge of Divisions :

F. Sutton, *Atlantic*.

W. H. Herron, *Central*.

T. G. Gerdine, *Northwestern*.

G. R. Davis, *Pacific*.

G. S. Smith (Lt.-Col., Eng.), *West Indian Surveys*.

E. M. Douglas, *Computing Division*.

155 Topographers, etc.

Water Resources Branch.

Chief Hydraulic Engineer.—N. C. Grover.

Engineers in charge of Divisions :

J. C. Hoyt, *Surface Water*.

O. E. Meinzer, *Ground Water*.

In addition, there are a great number of geologists, topographers, engineers, etc., who spend part of their time each year on work for the Survey.

Library.—Established 1882, estimated to contain 145,000 books, 103,000 brochures and 36,000 maps. *Librarian:* Miss J. L. V. McCord. *Bibliographer:* J. M. Nickles.

Engineers in charge of Divisions—

Continued:

C. H. Kidwell, *Quality of Water*.

H. C. Cludman, *Enlarged and Stock-raising Homesteads*.

A. H. Horton, *Power Resources*.

District Engineers :

C. H. Pierce, *New England*.

C. C. Covert, *New York*.

G. C. Stevens, *Middle Atlantic*.

W. E. Hall, *South Atlantic and Eastern Gulf*.

W. G. Hoyt, *Upper Mississippi River*.

R. C. Rice, *Kansas*.

W. A. Lamb, *Upper Missouri*.

R. Follansbee, *Rocky Mountain*.

A. B. Purton, *Great Basin*.

C. G. Paulson, *Idaho*.

G. L. Parker, *Washington*.

F. F. Henshaw, *Oregon*.

H. D. McGlashan, *California-Arizona*.

C. E. Ellsworth, *Texas*.

J. E. Stewart, *Hawaii*.

69 Technical Employees.

Land Classification Board.

Chief.—W. C. Mendenhall.

Chiefs of Divisions :

H. Stabler, *Hydrographic Classification*.

E. H. Finch, *Mineral Classification*.

Chiefs of Sections :

R. W. Howell, *Coal Land Classification*.

R. W. Davenport, *Water Power Classification*.

J. F. Deeds, *Irrigation Classification*.

A. E. Aldous, *Agricultural Classification*.

G. W. Holland, *Agricultural Classification*.

J. G. Mathers, *Agricultural Classification*.

Engineers :

F. B. Howe.

W. N. White.

F. J. Sopp.

C. E. Nordeen.

THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE,

Smithsonian Institution, Washington, D.C. (1848.)

Permanent Secretary.—L. O. Howard.**Publications.**—Science, The Scientific Monthly.**THE SMITHSONIAN INSTITUTION, Washington, D.C.**

Created by Act of Congress approved August 10, 1846, under the terms of the will of James Smithson, an Englishman, who in 1826 bequeathed his fortune to the United States to found, at Washington, under the name of the "Smithsonian Institution," an establishment for the "increase and diffusion of knowledge among men." The Institution has as its members the President of the United States, the Vice-President, the Chief Justice, and the President's Cabinet. It is governed by a Board of Regents consisting of the Vice-President, the Chief Justice, three members of the United States Senate, three members of the House of Representatives, and six citizens of the United States appointed by joint resolution of Congress. The Secretary of the Smithsonian Institution is its executive officer and the director of its activities.

By the accumulation of income, gifts, and bequests, the Smithsonian Fund now amounts to over one million dollars, from the income of which the Institution is supported.

Through the Hodgkins Fund, the income of \$100,000 of which is for the increase and diffusion of knowledge in regard to the nature and properties of atmospheric air in connection with the welfare of man, grants have been made, publications issued, and medals and prizes awarded.

Government Bureaus (supported by Congressional appropriations) under the direction of the Smithsonian Institution.

UNITED STATES NATIONAL MUSEUM.

The United States National Museum is the depository of the national collections. It is especially rich in the natural history of America, including zoology, botany, geology, paleontology, archeology, and ethnology, and has extensive series relating to the arts and industries, the fine arts, and American history.

The National Gallery of Art contains the George P. Marsh collection of etchings, engravings, and books on art; the Charles L. Freer collection, comprising numerous paintings, etchings, etc., by Whistler, and other American artists, and many examples of Japanese and Chinese art; The Harriet Lane Johnston collection, including a number of portraits by British masters; and the William T. Evans collection of painters by contemporary American artists.

Appropriation for 1919, \$382,500.00.

INTERNATIONAL EXCHANGE SERVICE.

The International Exchange Service is the agency of the United States Government for the exchange of scientific, literary, and governmental publications with foreign Governments, institutions, and investigators. It receives and dispatches about 600,000 pounds of printed matter annually.

Appropriation for 1919, \$35,000.00.

BUREAU OF AMERICAN ETHNOLOGY.

The Bureau of American Ethnology is engaged in the collection and publication of information relating to the American Indians, and the natives of Hawaii.

Appropriation for 1919, \$42,000.00.

ASTROPHYSICAL OBSERVATORY.

The Astrophysical Observatory investigates solar radiation and other solar phenomena. The work of this observatory is carried on partly in Washington and partly at a station on Mount Wilson in California.

Appropriation for 1919, \$13,000.00.

NATIONAL ZOOLOGICAL PARK.

The National Zoological Park has an area of 167 acres, and is located in the Rock Creek Valley, 2 miles north of the centre of Washington. Its collection comprises about 1,500 animals.

Univ Calif *Appropriation for 1919, \$115,000.00* (R)

INTERNATIONAL CATALOGUE OF SCIENTIFIC LITERATURE.

The International Catalogue of Scientific Literature publishes an annual classified index to the literature and science. The organization consists of a central bureau in London and 33 regional bureaux established in, and supported by, the principal countries of the world. That for the United States is supported by an annual appropriation from Congress, administered by the Smithsonian Institution.

Appropriation for 1919, \$7,500.00.

Printing and Binding.—Appropriation for 1919, \$76,200.00.

Organization of the Smithsonian Institution and its branches:

SMITHSONIAN INSTITUTION.

Secretary.—C. D. Walcott.

Assistant Secretary.—C. G. Abbot.

Chief Clerk.—H. W. Dorsey.

Editor.—W. P. True.

Library.—(Including Smithsonian Deposit in the Library of Congress), about 300,000 volumes.

Assistant Secretary in Charge.—C. G. Abbot.

Assistant Librarian.—P. Brockett.

NATIONAL MUSEUM (and National Gallery of Art).

Keeper (ex-officio).—C. D. Walcott.

Administrative Assistant to the Secretary in Charge.—W. de C. Ravenel.

Head Curators :

W. H. Holmes, *Department of Anthropology.*

L. Stejneger, *Department of Biology.*

G. P. Merrill, *Department of Geology.*

Curators :

P. Bartsch, *Division of Marine Invertebrates.*

R. S. Bassler, *Division of Paleontology.*

T. T. Belote, *Division of History.*

F. W. Clarke, *Division of Mineralogy and Petrology.*

F. V. Coville, *Division of Plants.*

W. H. Dall, *Division of Mollusks.*

C. G. Gilbert, *Division of Mineral Technology.*

W. Hough, *Division of Ethnology.*

L. O. Howard, *Division of Insects.*

A. Hrdlicka, *Division of Physical Anthropology.*

N. M. Judd, *Division of American Archeology.*

F. L. Lewton, *Division of Textiles.*

W. H. Holmes, *National Gallery of Art.*

G. P. Merrill, *Division of Physical and Chemical Geology.*

G. S. Miller, jr., *Division of Mammals.*

J. E. Pogue, *Division of Mineral Technology.*

R. Ridgway, *Division of Birds.*

L. Stejneger, *Division of Reptiles and Batrachians.*

Associate Curators :

W. R. Maxon, *Division of Plants.*

W. H. Dall, *Cenozoic Collection.*

D. White, *Paleobotany.*

C. W. Gilmore, *Fossil Reptiles.*

J. N. Rose, *Division of Plants.*

Associate Curators—Continued :

C. W. Richmond, *Division of Birds.*

J. M. Aldrich, *Division of Insects.*

Assistant Curators :

B. A. Bean, *Division of Fishes.*

J. E. Benedict, *Department of Biology.*

I. M. Casanowicz, *Division of Old World Archeology.*

A. H. Clark, *Division of Marine Invertebrates.*

O. F. Cook, *Cryptogamic Collections.*

J. W. Gidley, *Fossil Mammals.*

W. B. Marshall, *Division of Marine Invertebrates.*

C. W. Mitman, *Division of Mineral Technology.*

C. E. Resser, *Invertebrate Paleontology.*

W. L. Schmitt, *Division of Marine Invertebrates.*

E. V. Shannon, *Division of Physical and Chemical Geology.*

P. C. Standley, *Division of Plants.*

W. M. N. Watkins, *Wood Technology.*

C. Whitebread, *Medicine and Drugs.*

Custodians :

L. W. Beeson, *Photography.*

P. Brockett, *Graphic Arts.*

A. N. Caudell, *Orthoptera.*

O. F. Cook, *Myriapoda.*

H. G. Dyar, *Lepidoptera.*

D. G. Fairchild, *Lower Fungi.*

E. H. Gibson, *Hemiptera.*

H. K. Harring, *Rotatoria.*

F. L. Hess, *Rare Metals and Rare Earths.*

A. S. Hitchcock, *Grasses.*

A. D. Hopkins, *Forest Tree Beetles.*

F. H. Knowlton, *Mesozoic Plants.*

Custodians—Continued :

A. Mann, *Diatoms*.
 E. A. Schwarz, *Coleoptera*.
 T. W. Stanton, *Mesozoic Collection*.
 C. W. Stiles, *Helminthological Collections*.
 B. H. Swales, *Birds' Eggs*.

Custodians—Continued :

W. T. Swingle, *Higher Algæ*.
 C. H. T. Townsend, *Muscoïd Diptera*.
 T. W. Vaughan, *Madreporarian Corals*.
 3 Assistants, Custodians, and 10 Associates.

Administration :

Chief of Correspondence and Documents.—H. S. Bryant.
Assistant Librarian.—N. P. Scudder.
Disbursing Agent.—W. I. Adams.
Superintendent of Buildings and Labour.—J. S. Goldsmith.
Editor.—M. Benjamin.
Registrar.—S. C. Brown.

BUREAU OF AMERICAN ETHNOLOGY.

Chief.—J. W. Fewkes.

Ethnologists.—

J. P. Harrington.	T. Michelson.
J. N. B. Hewitt.	J. Mooney.
F. La Flesche.	J. R. Swanton.

Collaborators.—

F. Boas.	D. I. Bushnell, jr.
F. Densmore.	

Editor.—S. Searles.

Illustrator.—De L. Gill.

Librarian.—Miss E. Leary.

INTERNATIONAL EXCHANGES.

Assistant Secretary in Charge.—C. G. Abbot.

Chief Clerk.—C. W. Shoemaker.

NATIONAL ZOOLOGICAL PARK.

Superintendent.—N. Hollister.

Assistant Superintendent.—A. B. Baker.

ASTROPHYSICAL OBSERVATORY.

Director.—C. G. Abbot.

Aid.—F. E. Fowle, jr.

REGIONAL BUREAU FOR THE UNITED STATES INTERNATIONAL CATALOGUE OF SCIENTIFIC LITERATURE.

Assistant in Charge.—L. C. Gunnell.

THE CARNEGIE INSTITUTION OF WASHINGTON, D.C. (1902.)

Endowed with a sum of twenty-two million dollars by the late Andrew Carnegie, "to encourage in the broadest and most liberal manner, investigation, research, and discovery, and the application of knowledge to the improvement of mankind."

OFFICIALS.

President.—R. S. Woodward.

Chairman, Board of Trustees.—E. Root.

Vice-Chairman.—C. D. Walcott.

Secretary.—C. H. Dodge.

The Institution comprises the following departments:

Department of Experimental Evolution. (See Cold Spring Harbour.)

Department of Botanical Research. (See Tucson.)

Department of Embryology. (See Baltimore.)

Department of Marine Biology. (See Tortugas.)

Department of Meridian Astrometry. (See Albany.)

Mound Wilson Solar Observatory. (See Pasadena.)

Nutrition Laboratory. (See Boston, Mass.)

Department of Terrestrial Magnetism, 36th Street, Washington, D.C.

Director.—L. A. Bauer.

Besides work in terrestrial magnetism, researches are carried out in atmospheric electricity and allied subjects, also in magnetism in general and kindred topics. Physical laboratories, etc., are at National Rock Creek Park.

GEOPHYSICAL LABORATORY, Upton Street, Washington, D.C.

Director.—A. L. Day.

Carries out investigations to determine the modes of formation and the physical properties of the rocks of the earth's crust.

DEPARTMENT OF HISTORICAL RESEARCH, Woodward Buildings,
Washington, D. C

Director.—J. F. Jameson.

Prepares publications intended to assist investigators in American History. It issues reports, etc., on historical documents hitherto unclassified and relatively inaccessible.

THE DEPARTMENT OF AGRICULTURE, Washington, D.C.

Secretary of Agriculture.—D. F. Houston.

Executive and administrative head of the department.

Solicitor.—W. W. Williams.

Legal adviser to the secretary and the heads of the several branches of the Department, conducts its legal work, and represents it in all legal matters.

Office of Farm Management.—H. C. Taylor (Chief).

Studies the details of farm practice from a business standpoint, with a view to determining the most efficient methods of operation.

Weather Bureau.—C. F. Marvin (Chief).

Conducts meteorological investigations; issues weather maps; handles all work relating to climate, storm warnings, frost warnings, etc.

Forest Service.—H. S. Graves (Forester).

Administers the national forests and develops use of their resources; directs all research work relating to forestry and forest utilization.

Bureau of Animal Industry.—J. R. Mohler (Chief).

Studies and gives information regarding live stock; conducts the meat inspection and quarantine work.

Bureau of Plant Industry.—W. A. Taylor (Chief).

Investigates problems relating to plants and plant industries.

Bureau of Chemistry.—C. L. Alsberg (Chief.)

Enforces the Food and Drugs Act; investigates questions of agricultural chemistry.

Bureau of Soils.—M. Whitney (Chief).

Surveys and maps the soils and investigates the fertilizer resources of the United States.

Bureau of Crop Estimates.—L. M. Estabrook (Chief).

Collects crop statistics; issues crop reports and forecasts; gathers and collates general agricultural statistics.

Bureau of Entomology.—L. O. Howard (Chief).

Studies insects in their relation to agriculture.

Bureau of Biological Survey.—E. W. Nelson (Chief).

Studies wild birds and animals, their distribution, habits, and relations to agriculture; administers the Federal bird and game reservations, and the Federal laws protecting game and regulating the importation of birds and animals; controls noxious mammals, and experiments in fur farming.

Bureau of Public Roads.—T. H. MacDonald (Chief).

Studies and supplies information regarding road making, road management, road maintenance, farm irrigation, farm drainage, and rural engineering and architecture.

States Relations Service.—A. C. True (Director).

Supervises the use of Federal funds for agricultural experiment stations and agricultural extension work; investigates agricultural education, and food, dietetics, clothing, and household equipment and management.

Bureau of Markets.—G. Livingston (Acting Chief).

Investigates problems pertaining to marketing and distribution of farm products and organizing rural communities for marketing, rural credit, and

other purposes. Maintains market news services on fruits and vegetables, live stock and meats, hay and seeds, dairy and other products, and inspects shipments of fruits and vegetables upon request. Enforces Cotton Futures Act, Grain Standards Act, Standard Container Act, and administers the Warehouse Act.

Division of Publications.—E. B. Reid (Chief).

Supervises the work connected with the printing and distribution of the publications of the department.

Federal Horticultural Board.—C. L. Marlatt (Chairman).

Assists in the enforcement of the Plant Quarantine Act of August 20th, 1912.

Insecticide and Fungicide Board.—J. K. Haywood (Chairman).

Assists in the enforcement of the Insecticide Act of 1910.

Library.—*Librarian:* Claribel R. Barnett. Acquires and makes available the literature necessary for use in the work of the Department.

LIBRARY OF CONGRESS. (1800.)

In 1814 the collection was destroyed by the burning of the Capitol. In 1815 the Jefferson Library of 6,700 volumes was purchased from Ex-President Jefferson as a basis for a new collection. A fire in 1851 destroyed 35,000 volumes out of a collection of 55,000, including two-thirds of the Jefferson Library. At a late date the Library was replenished. The Smithsonian Library, consisting of about 40,000 volumes of Transactions of learned and scientific societies, was added in 1867. Removed from the Capitol to the present site in 1897. The building occupies $3\frac{3}{4}$ acres, upon a site 10 acres in extent, and is the largest library building in the world. In the decorations some forty painters and sculptors are represented (all American citizens). The book stacks contain a total of about 100 miles of shelving, with capacity for 3,540,000 octavo volumes of books and 84,000 volumes of newspapers.

The Library, though still entitled the Library of Congress, is no longer solely nor chiefly a legislative library. In its general relations, character, scope, and service, it is the National Library of the United States.

OFFICIALS.

General Administration.

Librarian of Congress.—Herbert Putnam.

Chief Assistant Librarian.—Appleton P. C. Griffin.

Chief Clerk.—Allen R. Boyd.

Secretary.—Jessica L. Farnum.

Main Reading Room.

Superintendent.—F. W. Ashley.

Chief Assistants.—H. A. Morrison, J. G. Morrison.

Reading Room for the Blind.—Mrs. G. T. Rider.

Representatives' Reading Room.—L. Washington.

CHIEFS OF DIVISIONS.

H. H. B. Meyer, *Bibliography.*

A. R. Kimball, *Binding.*

C. H. Hastings, *Card.*

C. Martel, *Catalogue.*

C. W. Perley, *Classification.*

H. J. Harris, *Document.*

C. W. Collins, jr. (Administrative Assistant), *Legislative Reference.*

S. M. Croft, *Mail and Delivery.*

C. Moore (Acting Chief), *Manuscript.*

P. L. Phillips, *Maps and Charts.*

W. R. Whittlesey (in charge), *Music.*

W. A. Slade, *Periodical.*

R. A. Rice (Acting Chief), *Print.*

I. Schapiro (in charge), *Semitic.*

P. Brockett (Custodian), *Smithsonian.*
(Office at Smithsonian Institution).

Law Library.

(F. H. Parsons in charge.)

Law Librarian.—Gilbert Hirsch.

Copyright Office.

Registrar.—T. Solberg.

Assistant Registrar.—A. Crisfield.

Building and Ground.*Superintendent.*—F. L. Averill.

Divisions.—There are seventeen divisions in the Library proper, entitled as follows: Reading Room, Bibliography, Binding, Card, Catalogue, Classification, Documents, Mail and Delivery, Manuscripts, Maps and Charts, Music, Order, Periodical, Prints, Semitic, Smithsonian, Law Library.

The Printing Office and Bindery, though located in the Library, are branches of the Government Printing Office. The Legislative Reference Division, established in 1915, undertakes for Congress the service of research and compilation familiar in certain of the States.

Volumes.—The collection is now the largest on the Western Hemisphere, and the third in the world. It comprises about 2,710,556 printed books and pamphlets (including the Law Library of 187,322 volumes which, while a division of the Library of Congress, still remains at the Capitol), 163,484 maps and charts, 848,292 pieces of music, and 409,029 photographs, prints, engravings, and lithographs.

Among the special book collections are the Yudin, of Russian literature (80,000 volumes); the Schiff, of Judaica (about 20,000); the Weber, of India; the Huitfeldt-Kaas (Scandinavian); the John Boyd Thacher of Incunabula (930 titles). The Orientals include some 5,000 volumes (fascicules) of Japanese books and about 40,000 volumes (fascicules) of Chinese.

Publications.—The publications of the Library fall into five classes: (1) Annual reports of the librarian; (2) Bibliographies, consisting of exhaustive lists of works contained in the Library, such as the list of books on the Philippine Islands, Biblioteca Filipina, etc.; (3) Reference lists consisting of select lists on subjects of immediate interest—Marine subsidies, Reciprocity, Trusts, Federal control of commerce, etc.; (4) Catalogues of special Collections belonging to the Library—*e.g.*, Catalogue of the Gardiner Greene Hubbard collection of engravings, Catalogue of the John Boyd Thacher collection of Incunabula; (5) Calendars of and reprints of special collections of manuscripts—*e.g.*, Calendar of the correspondence of George Washington, 4 vols., Journals of the Continental Congress; (6) Reports and compendiums on library history and methods; catalogue rules, classification, schedules, etc. The bibliographical publications and administrative reports are distributed free to libraries and institutions.

Copyright.—The Copyright Office, though attached to the Library, and under the general direction of the librarian, is in effect a distinct bureau. The appropriation for it (in 1919, \$104,740) is more than offset by fees covered into the Treasury (in 1918, \$113,118).

Library Staff.—The Library has 667 employees including in the Library proper 263; Copyright Office, 91; Legislative Reference, 30; department for the distribution of catalogue cards, 45; disbursement service and care of building and grounds, 141.

Income.—The Library is maintained by annual appropriation by Congress, for various purposes, including the purchase of books. For the year 1919, these amounted to \$707,925 (not including allotment for printing and binding, \$200,000), as follows: \$566,425 for service and contingent expenses (including the Copyright Office, and including also the care of the building); \$98,000 for books and periodicals; \$21,500 for fuel, supplies, and miscellaneous purposes; \$22,000 for furniture and shelving.

Expenditures.—Expenditures correspond to the appropriations.

U.S. PUBLIC HEALTH SERVICE (Treasury Department), 25th and E. Streets, N.W., Washington, D.C.

Established at Stapleton, N.Y., 1887; removed to Washington, 1891.

Functions.—The study of diseases of man and conditions influencing their propagation and spread, including sanitation and sewage and the pollution of water supplies; the standardization and supervision of viruses, serums, toxins, antitoxins, and allied products; post-graduate studies for officers of the Service and of Municipal and State Health Departments.

OFFICIALS.

Surgeon General.—R. Bluc, United States Public Health Service.

Advisory Board.—Nine Members.

LABORATORY.

Director.—G. W. McCoy (Surgeon).
Assistant Director.—A. M. Stimson (Surgeon).
Execution Clerk.—C. E. B. K. Foltz.
Senior Pharmacist.—C. O. Sterns.
Junior Pharmacist.—C. C. Cannon.
Artist.—L. H. Wilder.
Librarian.—M. G. Motter.

Reference Library.—8,000 bound volumes, and 10,000 pamphlets and reprints.

DIVISION OF PATHOLOGY AND BACTERIOLOGY.

In charge of Division.

G. W. McCoy (Surgeon).

Assistants :

A. M. Stimson (Surgeon).
 B. J. Lloyd (Surgeon).
 C. W. Chapin (Surgeon).
 H. E. Hasseltine (Passed Assistant Surgeon).
 J. P. Leake (Passed Assistant Surgeon).
 G. C. Lake (Assistant Surgeon).

Bacteriologists :

T. W. Kammerer. A. Bengtson (Miss).
 H. B. Corbitt. A. C. Evans (Miss).

Technical Assistant :

W. D. Cannon.

DIVISION OF ZOOLOGY.

Chief of Division :

C. W. Stiles.

Laboratory Aids :

M. L. Brown (Miss). M. Wood (Miss).
 E. Rowntree (Miss).

DIVISION OF PHARMACOLOGY.

Chief of Division :

C. Voegtlin.

Technical Assistants :

A. Seidell.
 G. B. Roth.
 A. G. Du Mez.
 J. M. Johnson (Physiological Chemist).
 C. W. Hooper (Pathologic Physiologist).
 A. C. Livingston (Physiologist).
 A. C. Kolls (Pharmacologist).
 H. W. Smith (Assistant Pharmacologist).
 M. M. Crane (Miss), (Assistant Pharmacologist).
 K. D. Wright (Miss), (Scientific Assistant).
 M. A. Connell (Miss), (Scientific Assistant).

DIVISION OF CHEMISTRY.

Chief of Division :

Vacant.
 E. Elvove (in charge of the Division *ad interim*), (Physiological Chemist).
 H. L. Shoub (Technical Assistant).
 E. J. Casselman (Assistant Chemist).
 C. G. Remsburg (Assistant in Chemistry).
 O. H. Schunk (Assistant in Chemistry).

THE WASHINGTON ACADEMY OF SCIENCES, Washington, D.C. (1898.)

OFFICIALS.

President.—C. L. Alsberg.
Corresponding Secretary.—R. B. Sosman.
Recording Secretary.—W. R. Maxon.
Treasurer.—R. L. Faris.

The Academy is affiliated with the following societies:

Anthropological, Archeological, Biological, Botanical, Chemical, Electrical Engineers', Engineers', Entomological, Foresters', Geographic, Geological, Historical Medical, and Philosophical.

Publications.—Proceedings (quarterly, discontinued in 1911); Journal (semi-monthly).

AMERICAN HISTORICAL ASSOCIATION.

(Organized September, 1884. Chartered by Act of Congress March 3rd, 1889.)
 Object: Promotion of historical studies.

OFFICIALS.

President.—W. R. Thayer.
First Vice-President.—E. Channing.
Second Vice-President.—J. J. Jusserand.
Secretary.—W. G. Leland.
Treasurer.—C. Moore.
Secretary of the Council.—E. B. Greene.

Publications.—

Annual Report, which is transmitted to the Secretary of the Smithsonian Institution for publication by authority as a public document.

American Historical Review, published quarterly by the Macmillan Company, New York. *Managing Editor*: J. F. Jameson.

Annual Meetings.—Held in December, in various cities.

Membership.—2,600. Annual income from dues and investments, \$10,000.

THE ANTHROPOLOGICAL SOCIETY OF WASHINGTON.

Organized 1879, "to encourage the study of the natural history of man, especially with reference to America."

OFFICIALS.

President.—G. M. Kober.

Vice-President.—T. Michelson.

Secretary.—F. Neumann.

Treasurer.—J. N. B. Hewitt.

Publications.—Transactions (3 volumes); Abstract Transactions (1 volume); American Anthropologist.

THE ARCHEOLOGICAL INSTITUTE OF AMERICA.

Founded 1879. Headquarters 1741, New York Avenue, Washington, D.C.

Its purpose is "to promote and direct archeological research." It has 45 branches, located in various cities of the United States and Canada. The Washington Society of the Archeological Institute of America was founded April 7th, 1902.

OFFICIALS OF THE WASHINGTON SOCIETY.

President.—Robert Lansing.

Secretary.—M. Carroll.

Treasurer.—J. B. Larner.

BIOLOGICAL SOCIETY, c/o Cosmos Club, Washington, D.C., U.S.A.

The Biological Society of Washington was organized in 1880, "to encourage the study of the Biological Sciences and to hold meetings at which papers shall be read and discussed."

OFFICIALS.

President.—H. M. Smith.

Vice-Presidents.—

A. D. Hopkins.

N. Hollister.

Vernon Bailey.

A. S. Hitchcock.

Recording Secretary.—M. W. Lyon, Jr.

Corresponding Secretary.—W. L. McAtee.

Treasurer.—N. Dearborn.

Publications.—Proceedings of the Biological Society of Washington, 32 volumes. The current proceedings of the Society are also published in the Journal of the Washington Academy of Sciences.

The Society meets bi-monthly October to May.

THE BOTANICAL SOCIETY OF WASHINGTON. (Organized 1901.)

The object of the Society is "the exposition and discussion of the results of botanical investigations, and the promotion of social intercourse among the members."

OFFICIALS.

President.—K. F. Kellerman.

Vice-President.—C. R. Ball.

Recording Secretary.—C. E. Chambliss.

Corresponding Secretary.—R. K. Beattie.

Treasurer.—L. L. Harter.

THE CHEMICAL SOCIETY OF WASHINGTON. (Organized 1884.)

In 1893 it became a section of the American Chemical Society.

OFFICIALS.

President.—C. O. Johns.

Secretary.—E. C. McKelvy.

Treasurer.—F. P. Dewey.

Publication.—Bulletin of the Chemical Society of Washington (discontinued).

THE AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS. Founded 1884.
Devoted to the interest of Electrical Engineering and the development of Applied Electricity.

OFFICIALS OF THE WASHINGTON SECTION.

Chairman.—J. E. Smith.
Secretary.—M. Flanders.

THE WASHINGTON SOCIETY OF ENGINEERS. (Organized 1905. Incorporated 1909.)

The purpose of the Society is "the advancement of engineering knowledge and practice, and the maintenance of a high professional standard among its members."

OFFICIALS.

President.—M. Hacker.
Vice-President.—W. C. Thom.
Secretary.—W. E. Parker.
Treasurer.—G. P. Springer.

THE ENTOMOLOGICAL SOCIETY OF WASHINGTON. (Organized 1884.)

"To promote the study of Entomology in all possible bearings."

OFFICIALS.

Honorary President (permanent).—E. A. Schwarz.
President.—E. R. Sasser.
First Vice-President.—W. R. Walton.
Second Vice-President.—A. B. Gahan.
Recording Secretary.—R. A. Cushman.
Corresponding Secretary-Treasurer.—S. A. Rohwer.
Editor.—A. C. Baker.

Publications.—Proceedings of the Entomological Society of Washington (annual).

THE SOCIETY OF AMERICAN FORESTERS, Atlantic Building,
Washington, D.C.

The Society of American Foresters was organized in 1900, "to further the cause of forestry in America by fostering a spirit of comradeship among foresters; by creating opportunities for a free interchange of views upon forestry, and allied subjects; and by disseminating a knowledge of the purpose and achievements of forestry." Senior members are professional foresters. Associate members are persons who have rendered distinguished service to the cause of American forestry, but who are not professional foresters.

OFFICIALS.

President.—E. F. Olmsted.
Vice-President.—W. W. Ashe.
Secretary.—P. D. Kelleter.
Treasurer.—A. F. Hawes.

In 1917 the Proceedings of the *Society of American Foresters*, of which 11 volumes had been issued, was amalgamated with the *Forestry Quarterly*. The new publication is issued semi-quarterly under the name of *Journal of Forestry*. The current proceedings of the local section are published in the *Journal of the Washington Academy of Sciences*.

THE NATIONAL GEOGRAPHIC SOCIETY, Hubbard Memorial Hall, 16th Street,
Washington, D.C.

Founded in 1888, "for the increase and diffusion of geographic knowledge," the Society has now more than 675,000 members. In the promotion of its purpose to increase geographic knowledge, its expeditions have unearthed Machu Picchu, the holy city of the Incas, and the staircase farms of the ancients in America, which far eclipse the hanging gardens of Babylon; have studied the problems of volcanism and earthquakes in the West Indies, Alaska, and the Mediterranean; have made exhaustive study of glacial action in Alaska, and accomplished other important investigations and discoveries. In the work of diffusing geographic knowledge, it publishes a magazine which reaches more than 675,000 homes, conducts a bureau of information which furnishes daily statements without charge to the press of the United States

concerning places and matters of geographic interest in the public eye, publishes books, maps, and monographs, and otherwise cultivates a national interest in the broader phases of non-technical as well as technical geography. The Society last year contributed out of its reserve funds the money necessary to purchase, to preserve from destruction, the privately-owned big trees of the Sequoia National Park region of California, and deeded them to the Federal Government to be held in perpetuity for the benefit of posterity.

In 1916 its expedition under Prof. R. F. Griggs climbed Mount Katmai, in whose crater Vesuvius could be buried, and discovered "The Valley of Ten Thousand Smokes." In 1917, a second expedition to this valley showed its area and the character of the phenomena observed to surpass anything hinted at in the reports of the previous expedition. In 1918 the Society sent a fourth expedition to Alaska to prepare bases and make observations in preparation for a large expedition, which sailed from Seattle, Washington, in April, 1919.

The Society co-operated energetically with the United States forces in the prosecution of the war.

THE GEOLOGICAL SOCIETY OF WASHINGTON. (Organized 1893.)

"For the increase and diffusion of geological knowledge."

OFFICIALS.

President.—E. O. Ulrich.

Vice-Presidents.—G. H. Ashley, H. S. Gale.

Secretaries.—R. W. Stone, R. S. Bassler.

Treasurer.—W. B. Heroy.

THE COLUMBIA HISTORICAL SOCIETY. (Organized 1894. Incorporated 1894.)

"For the collection, preservation, and diffusion of knowledge respecting the history and topography of the District of Columbia and national history and biography."

OFFICIALS.

President.—A. C. Clark.

Vice-Presidents.—J. Barnard, W. B. Bryan.

Treasurer.—C. H. Rudolph.

Recording Secretary.—Miss M. B. Morris.

Corresponding Secretary.—W. F. Roberts.

Curator.—J. F. Hood.

Chronicler.—F. L. Fishback.

Publications.—

Records of the Columbia Historical Society.

THE MEDICAL SOCIETY OF THE DISTRICT OF COLUMBIA. (Founded 1817. Chartered 1819.)

The object of the Society is the "promotion, locally and generally, of the science and art of medicine and sanitation, and the interests of the medical profession."

OFFICIALS.

President.—W. G. Morgan.

Vice-Presidents.—Miss A. R. Thomas, A. R. Shands.

Corresponding Secretary.—J. R. Verbrycke, jr.

Recording Secretary.—H. C. Macatee.

Treasurer.—C. W. Franzoni.

THE PHILOSOPHICAL SOCIETY OF WASHINGTON. (Organized 1871.)

"For the purpose of free exchange of views on scientific subjects, and the promotion of scientific inquiry among its members."

OFFICIALS.

President.—W. J. Humphreys.

Vice-Presidents.—R. B. Sosman, R. L. Faris.

Corresponding Secretary.—E. C. Crittenden.

Recording Secretary.—S. J. Mauchly.

Treasurer.—E. F. Mueller.

Publications.—Bulletin of the Philosophical Society of Washington (discontinued in 1911).

WELLINGTON (New Zealand).

THE UNIVERSITY OF NEW ZEALAND, Wellington, New Zealand.

Affiliated Colleges: University of Otago, Dunedin; Canterbury College, Christchurch; Auckland University College, Auckland; Victoria College, Wellington.

OFFICIALS.

Visitor.—His Excellency the Governor-General.*Chancellor.*—Sir Robert Stout, K.C.M.G., LL.D.*Vice-Chancellor.*—John Macmillan Brown, M.A., LL.D.*Registrar.*—Edwin T. Norris, M.A.

Degrees conferred :

<i>Degrees.</i>	<i>Hoods.</i>
B.A. - - Gown similar to Cambridge	B.A. Hood lined with pink silk and bordered with white fur.
M.A. - - Gown similar to Cambridge	M.A. Hood lined with pink silk.
Litt.D. - - Gown similar to M.A.	Hood wholly made of pink silk.
B.Sc. - - Gown similar to B.A.	Hood lined with dark blue silk and bordered with white fur.
M.Sc. - - Gown similar to B.Sc.	Hood lined with dark blue silk.
D.Sc. - - Gown similar to B.Sc.	Hood made wholly of dark blue silk.
B.LL. - - Gown similar to B.A.	Hood lined with light blue silk and bordered with white fur.
M.LL. - - Gown similar to M.A.	Hood lined with light blue silk.
D.LL. - - Gown similar to M.LL.	Hood made wholly of light blue silk.
M.B. - - Gown similar to B.A.	Hood lined with mauve silk and bordered with white fur.
M.D. - - Gown similar to B.M.	Hood made wholly of mauve silk.
Mus.B. - - Gown similar to B.A.	Hood lined with white silk and bordered with white fur.
Mus.D. - - Gown similar to B.Mus.	Hood made wholly of white silk.
B.E. - - Gown similar to B.Sc.	Hood lined with violet silk and bordered with white fur.
B.Ag. - - Gown similar to B.Sc.	Hood lined with light green silk and bordered with white fur.
B.D.S. - - Gown similar to B.M.	Hood lined with purple silk and bordered with white fur.
B.Vet.Sc. - - Gown similar to B.Sc.	Hood lined with orange silk and bordered with white fur.
B.Com. - - Gown similar to B.Sc.	Hood lined with orange silk and bordered with white fur.
B.Sc. in Home Science	Gown similar to B.A. Hood lined with old gold silk and bordered with white fur.

VICTORIA UNIVERSITY COLLEGE, Wellington, New Zealand. (1897.)

An affiliated Institution of the University of New Zealand, *q.v.**Terms:* Three a year.

OFFICIALS. See NEW ZEALAND UNIVERSITY.

Degrees conferred.—See NEW ZEALAND UNIVERSITY.

PROFESSORS.

Professors :

J. Rankine Brown, *Classics*.
 H. Mackenzie, *English Language and Literature*.
 T. H. Easterfield, *Chemistry*.
 D. M. Y. Sommerville, *Mathematics, Pure and Applied*.
 H. B. Kirk, *Biology*.
 J. Adamson, *Roman Law, Jurisprudence and Constitutional History*.
 J. M. E. Garrow, *English and New Zealand Law*.
 T. A. J. Hunter, *Mental and Moral*

Professors—Continued :

F. P. Wilson, *Physics*.
 W. Clark (Temp.).

Lecturers :

F. P. Wilson, *History*.
 G. A. Cotton, *Geology*.
 J. S. Tennant, *Education*.
 J. Thompson, *French*.
 M. Baker (Miss), *German*.
 G. G. C. Watson, *Evidence and Procedure*.
 B. E. Murphy, *Economics*.
 8 Assistants.

NEW ZEALAND GEOLOGICAL SURVEY, 38, The Terrace, Wellington, N.Z.

The Geological Survey of New Zealand is a branch of the Mines Department. Its present personnel is as follows:

- Director*.—P. G. Morgan, M.A., A.O.S.M., F.G.S.
Mining Geologist.—J. Henderson, B.E., M.A., D.Sc.
Geologist.—H. T. Ferrer, M.A., F.G.S.
Assistant Geologists.—M. Ongley, B.Sc., M.A.; L. I. Grange, B.Sc.
Draughtsman.—G. E. Harris.
Clerk and Librarian.—F. Fulton-Wood.

Publications.—Prior to 1905 numerous reports and other publications were issued under the direction of Sir James Hector. These are now nearly out of print. In 1905 the Geological Survey was reorganized under the direction of Dr. J. M. Bell. Since then, twenty geological bulletins giving the results of detailed surveys, seven paleontological bulletins, thirteen annual reports, and various other publications have been issued. Numerous papers by members of the staff have appeared in the *Transactions of the N.Z. Institute*, the *N.Z. Journal of Science and Technology*, and in other publications.

Scope of Survey.—The Geological Survey has in hand the detailed geological survey of New Zealand. It also reports on mineral deposits, and gives information concerning mineral resources.

WESLEYAN UNIVERSITY. See MIDDLETOWN.

WESTERN AUSTRALIA, UNIVERSITY OF. See PERTH.

WESTERN RESERVE UNIVERSITY. See CLEVELAND.

WESTERN THEOLOGICAL SEMINARY. See PITTSBURG.

WILLIAMSTOWN (Massachusetts).

WILLIAMS COLLEGE, Williamstown, Mass. (1793.)

Terms: Two a year.

Students: 555.

Budget: Current disbursements, \$261,726.98.

OFFICIALS.

President.—H. A. Garfield, LL.D.

Chairman (pro tem.) of the Faculty.—Carroll, L. Maxcy, M.A.

Dean.—George Edwin Howes, Ph.D.

Registrar.—Elmer A. Green, M.A.

Degrees conferred.—B.A., M.A. Honorary: D.D., M.A., L.H.D., Litt.D., LL.D.

PROFESSORS.**Professors:**

- F. Goodrich, *European History*. [ture.
 H. D. Wild, *Latin Language and Literature*.
 A. H. Morton, *Natural Theology*.
 C. L. Maxcy, *Rhetoric*.
 W. I. Milham, *Astronomy*.
 J. L. Kellogg, *Biology*.
 T. C. Smith, *American History, Literature, and Eloquence*.
 H. F. Cleland, *Geology and Mineralogy*.
 W. E. McElfresh, *Physics*.
 G. E. Howes, *Ancient Languages*.
 J. G. Hardy, *Mathematics*.
 F. H. Howard, *Physiology*.
 G. Droppers, *Political Economy*.
 K. E. Weston, *History of Art and Civilization*.
 M. N. Wetmore, *Latin*.
 R. L. Taylor, *Romance Languages*.
 J. B. Pratt, *Intellectual and Moral Philosophy*.
 B. J. Rees, *English*.

Professors—Continued:

- W. W. McLaren, *Economics*.
 W. H. Doughty, *Government*.
 B. Mears, *Chemistry*.
 S. O. Dickerman, *Greek Language and Literature*.

Assistant Professors:

- D. T. Clark, *Economics*.
 J. S. Galbraith, *Greek and Latin*.
 E. I. Shepard, *Mathematics*.
 S. E. Allen, *Rhetoric*.
 G. W. Johnson, *German*.
 J. P. Rice, *Romance Languages*.
 G. B. Dutton, *English*.
 A. H. Licklider, *English Literature*.
 H. L. Agard, *Mathematics*.
 O. W. Long, *German*.
 T. B. Hewitt, *German*.
 A. H. Buffinton, *History*.
 J. N. Cru, *French*.
 R. Peattie, *Geology*. [ant.
 2 Lecturers, 15 Instructors, 1 Assist-

Post-Graduate Courses.—Leading to the degree of Master of Arts.

Libraries.—One main Library; seven branch libraries. Main Library, 92,000 volumes, exclusive of duplicates and about 20,000 pamphlets. *Librarian*: Christine Price, B.S.

Museum.—Geological Museum.

WINDSOR (Nova Scotia).

UNIVERSITY OF KING'S COLLEGE, Windsor, Nova Scotia. (1789.)

The oldest University in the British Overseas Dominions.

Terms: Two per year. *Students* (undergraduates): 110.

Budget: Income and Expenditure about \$30,000.

OFFICIALS.

Patron.—The Archbishop of Canterbury.

Visitor.—The Bishop of Nova Scotia.

Chancellor.—Hon. Sir C. Townshend.

Vice-Chancellor.—Rev. T. S. Boyle, D.D., D.C.L.

Public Orator.—Rev. T. H. Hunt, D.D.

Registrar.—Rev. F. W. Vroom, D.D., D.C.L.

Degrees conferred.—B.A., M.A., B.Sc., D.Sc., B.Eng., M.Eng., B.D., D.D., B.C.L., D.C.L.

The Hoods are in every case the same as used in the University of Oxford.

PROFESSORS.

Rev. F. W. Vroom, *Divinity*.

Rev. T. H. Hunt, „

J. B. McCarthy, *Chemistry*.

A. A. Sturley, *Engineering*.

H. W. A. Wadley, *Mathematics*.

Rev. C. E. Willets, *Classics*.

Rev. A. W. M. Harley, *English*.

Rev. T. S. Boyle, *History*.

Rev. G. F. Kingston, *Philosophy*.

Rev. A. E. Andrew, *Pastoral Theology*.

6 Lecturers.

Post-Graduate Courses.—Leading to degrees of D.D., D.Sc., and D.C.L.

Librarian: Rev. Dr. Vroom.

Museum or Society.—Haliburton Society, for the study of Modern History and Literature.

WISCONSIN UNIVERSITY. *See* MADISON.

WISTAR INSTITUTION UNIVERSITY. *See* PHILADELPHIA.

WOODS HOLE (Massachusetts).

THE MARINE BIOLOGICAL LABORATORY, Woods Hole, Mass. (1888.)

OFFICIALS.

Director.—Prof. F. R. Little.

Assistant Director.—Gilman A. Drew.

Treasurer.—D. Blakely Hoar.

Publication.—Biological Bulletin.

WOOSTER (Ohio).

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—C. E. Thorne.

WORCESTER (Massachusetts).

CLARK UNIVERSITY, Worcester, Mass. (1889.)

Terms: Two semesters.

Students: 106.

Budget:

Clark University Endowment	\$1,484,000	Income	\$60,230
Library	„ 813,590	„	35,430
Art Department	„ 100,000	„	4,000

OFFICIAL.

President and Professor of Psychology.—G. S. Hall, Ph.D., LL.D.

Degrees conferred.—M.A., Ph.D.

Hoods.—University colours—emerald green and white—to be worn in the hood of Doctor's gown as a green chevron on a white field.

PROFESSORS.

Professors :

- G. S. Hall, *Psychology*.
 W. E. Story, *Mathematics*.
 A. G. Webster, *Physics*.
 H. Taber, *Mathematics*.
 W. H. Burnham, *Pedagogy and School Hygiene*.
 G. H. Blakeslee, *History and International Relations*.

Professors—Continued :

- R. S. Lillie, *Biology*.
 C. A. Kraus, *Chemistry*.
 F. H. Hankins, *Sociology*.
 E. G. Boring, *Experimental Psychology*.

Associate Professor :

- A. B. Hulbert, *History*.

Assistant Professor :

- S. W. Fernberger, *Experimental Psychology*.

3 Instructors, and 8 Lecturers.

Post-Graduate Courses.—All courses in the University are post-graduate.

Librarian and Custodian of the Art Collection.—L. N. Wilson.

Museum.—The Children's Institute and Educational Museum.

AFFILIATED INSTITUTE.

Clark College.

CLARK COLLEGE, Worcester, Mass. (1902.)

Terms : Two semesters.

Students : 205.

Budget : Endowment, \$1,673,200. Income, \$80,548.

OFFICIALS.

President.—E. C. Sanford, Ph.D., LL.D.

Degree conferred.—B.A.

PROFESSORS.

Professors :

- J. P. Porter, *Psychology*.
 B. S. Merigold, *Chemistry*.
 F. B. Williams, *Mathematics*.
 G. H. Blakeslee, *History and International Relations*.
 P. C. Hoyt, *English*.
 C. B. Randolph, *Latin*.
 P. H. Churchman, *Romance Languages*.
 H. D. Brackett, *Greek*.
 L. C. Wells, *French and Spanish*.
 F. H. Hankins, *Political and Social Science*.
 L. A. Ames, *English Literature*.
 I. A. Field, *Biology*.

Associate Professors :

- L. H. Dodd, *English*.
 C. E. Mellville, *Mathematics*.
 G. F. White, *Organic Chemistry*.
 R. H. Goddard, *Physics*.

Assistant Professors :

- L. R. Geissler, *Psychology and Education*.
 E. H. Harrington, *Physics*.
 K. S. Rice, *Biology*.
 C. O. Fisher, *Economics*.

- J. Metivier, *French*.
 J. S. French, *Mathematics*.
 L. H. Jenks, *History*.

2 Lecturers, 1 Director of Physical Education, 1 Medical Director, and 1 Musical Director.

Post-Graduate Courses.—All courses in the College are undergraduate.

Librarian : L. N. Wilson.

WORCESTER ART MUSEUM, Worcester, Mass., U.S.A.

The Worcester Art Museum, founded in 1896, by Stephen Salisbury, for the promotion of Art and Art Education in Worcester.

OFFICIALS.

President.—F. H. Dewey.

Treasurer.—L. N. Kinnicutt.

Vice-President.—F. S. P. Bratt.

Director.—Raymond Wyer.

The collections include archeology, architecture, coins, and medals, furniture, ceramics, metalwork, Oriental objects, Colonial silver, sculpture, textiles, woodwork, prints, photographs, and a library. Of special note are the collections of paintings by old and modern masters; the unique group of Italian terra-cottas of the fifteenth and sixteenth centuries; the Bancroft Collection of Japanese Prints—one of the best public collections in the country; the Goodspeed Collection of engravings by American masters.

Lectures are offered to the public and to special groups of persons and organizations.

The Museum was a pioneer in starting a section devoted to children, and has taken the initiative in an improved system of education.

AMERICAN ANTIQUARIAN SOCIETY, Worcester, Mass. (1812.)

Membership consists of 175 United States members and 35 foreign members. No dues, and all members elected for honorary reasons only.

OFFICIALS.

President.—W. Lincoln.

Librarian.—C. S. Brigham.

Publications consist of semi-annual *Transactions*, volumes 1-12 (1820-1911), at \$2.50; *Proceedings*, 1812-1880 (occasional, 1880-1919), at \$2.00 a volume.

Library.—Consists of 130,000 volumes, 196,000 pamphlets, and 40,000 manuscripts.

WYE (Kent).

SOUTH EASTERN AGRICULTURAL COLLEGE, Wye, Kent. (1893.)

Terms : Three per year.

Students : 160.

OFFICIALS.

Principal.—M. J. R. Dunstan, O.B.E., M.A.

Assistant Principal.—T. W. Cave, M.R.C.V.S.

Vice-Principal.—F. V. Theobald, M.A.

Secretary.—J. N. L. Jones.

Degrees conferred.—Students are prepared for the B.Sc. (Agric.) Degree of London University.

The College grants diplomas in Agriculture and Horticulture to duly qualified students.

AGRICULTURE AND DAIRYING.

Staff :

M. J. R. Dunstan. J. C. Norie.
W. H. Kersey. W. A. Stewart.
J. H. Mattinson. H. Aglesby.

AGRICULTURAL ENGINEERING.

O. Davies.

VETERINARY SCIENCE AND BACTERIOLOGY.

T. W. Cave.

CHEMISTRY.

A. H. Burgess.
L. W. Evans.
W. S. Gray.
H. Wormald (Mrs.).

BOTANY.

S. T. Parkinson.
E. S. Salmon (Reader in Mycology,
London University).
J. C. Waller.
H. Wormald.
W. M. Ware.

Library.—About 4,000 standard Agricultural and Scientific Works. *Librarian* : C. H. Hooper.

Wye College Fruit Research Station, East Malling, Kent. *Director* : R. G. Hatton. *Manager* : J. Amos.

ZOOLOGY AND ENTOMOLOGY.

F. V. Theobald.
S. G. Brade-Birks.
C. A. W. Duffield.

GEOLOGY.

S. G. Brade-Birks.

ESTATE MANAGEMENT AND COST ACCOUNTING.

A. H. Haines. H. W. Kersey.

POULTRY.

H. Howes.

FRUIT GROWING.

C. S. Smith. R. G. Hatton.
W. Miskin.

VEGETABLE GROWING.

H. C. Chapelow.

BUILDING CONSTRUCTION.

H. Daw.

IRONWORK FARRIERY AND WOODWORK.

W. Wardley. J. A. Watson.

WYOMING UNIVERSITY. See LARAMIE.

YALE UNIVERSITY. See NEW HAVEN.

INDEX TO NAMES

HIS MAJESTY THE KING, 21, 59, 118, 176, 185, 187, 189, 191
 H.R.H. THE PRINCE OF WALES, 57, 174, 176, 187, 189
 H.R.H. PRINCESS VICTORIA, 146

- AARONSON, L., 163
 Aase, Miss H. C., 277
 Abbe, T., 326
 Abbot, C. G., 331, 332
 Abbott, A., 182, 233
 Abbott, A. H., 309
 Abbott, Miss A. M., 248
 Abbott, C. W., 275
 Abbott, E., 50
 Abbott, F. F., 272
 Abbott, G. A., 110
 Abbott, H. V., 247
 Abbott, N., 235
 Abbott, T. J., 237
 Abbott, W. C., 227
 Abel, Miss A. H., 247
 Abel, J. J., 14
 Abel, Miss M. R., 175
 Abell, A. C., 276
 Abell, T. B., 145
 Abercrombie, J. R., 16
 Abercrombie, L., 144
 Abercrombie, L. P., 144
 Aberdare, The Rt. Hon. Lord, 59
 Abmad, M. B., 133
 Abrahams, I., 48
 Abrahams, J. B., 239
 Abrahamson, I., 237
 Abram, H. H., 168
 Abram, J. H., 145
 Abrams, A. W., 6
 Abrams, L., 300
 Acharya, A. T. R., 263
 Acharya, G. S., 8
 Acharyar, R. B. K. R., 72
 Acker, G. N., 326
 Ackermann, D. J., 304
 Ackland, The Rt. Hon. Sir F. Dyke, 147
 Ackland, W. R., 39
 Acland, T. D., 167
 Acton, H., 180
 Adam, D. S., 214
 Adam, J., 97, 105
 Adam, J. D., 117
 Adam, R. M., 96
 Adami, Col. J. G., 143
 Adams, A., 116, 117
 Adams, A. B., 245
 Adams, B., 124
 Adams, C. A., 55, 180, 211
 Adams, C. D., 115
 Adams, C. H., 249
 Adams, E. P., 274
 Adams, F., 24
 Adams, F. D., 219
 Adams, Miss F. L., 297
 Adams, G. E., 171
 Adams, G. P., 23
 Adams, H. S., 88
 Adams, J., 150, 160
 Adams, J. C., 228
 Adams, J. F., 302
 Adams, J. J., 77
 Adams, J. M., 291
 Adams, J. Q., 123
 Adams, M., 281
 Adams, Mrs. M. J., 249
 Adams, P. E. H., 255
 Adams, R., 281
 Adams, R. L., 24
 Adams, S. S., 323
 Adams, T. D., 87
 Adams, T. S., 227
 Adams, W. A., 115
 Adams, W. B., 297
 Adams, W. G. S., 256, 258
 Adams, W. S., 262
 Adamson, H. G., 166
 Adamson, J., 340
 Adamson, J. W., 150, 156
 Adamson, R. S., 207
 Adams, W. I., 332
 Adcock, F. E., 49
 Addicot, L. J., 12
 Addis, T., 300
 Addison, J. T., 55, 56
 Addison, L. T., 312
 Addison, O. L., 174
 Adeny, W. E., 86
 Adkins, H. B., 201
 Adkins, J. C., 324
 Adler, C., 239, 265
 Adler, F., 233
 Adler, H., 16
 Adrian, E. D., 50
 Adshhead, S. D., 151, 155
 Adsit, Miss R., 135
 Agar, W. E., 105, 213
 Agard, H. L., 341
 Agard, Miss J. S., 298
 Agee, H. P., 119
 Agger, E. E., 233
 Agharkar, S. P., 43
 Agnew, Jean, 42
 Ahmad, B., 13
 Ahmad, E. U., 6
 Ahmad, H., 13
 Ahmad, M., 44
 Ahmad, S., 44
 Aiken, Very Rev., C., 327
 Aikens, H. A., 69
 Aikman, J., 195
 Aikley, C. W., 279
 Ainsworth, G. C., 211
 Ainsworth, Lt.-Col. H., 131
 Aitken, H., 92
 Aitken, R. G., 223
 Aiyanger, K. S. V., 205
 Aiyyar, N. K., 205
 Aiyyer, K. C., 315
 Aiyyer, K. V., 315
 Aiyyer, P. A. S., 315
 Aiger, S. M., 205
 Akin, H. L., 250
 Akram, M. M., 280
 Albee, E., 122
 Albers, H., 33, 34
 Albert, C. D., 125
 Albert, H., 121
 Albiston, A. E., 215
 Albright, G. H., 74
 Alchin, Miss C. A., 198
 Alcock, Col. A., 176
 Alcock, H., 37
 Alcock, N. G., 121
 Alden, C. C., 41
 Alden, L. R., 325
 Alden, W. C., 329
 Alderson, V. C., 108
 Aldous, A. E., 329
 Aldrich, E. A., 33, 35
 Aldrich, J. M., 331
 Aldrich-Blake, Miss L. B., 174, 175
 Alexander, A. S., 202
 Alexander, C. B., 6
 Alexander, C. W. L., 79
 Alexander, F. H., 89
 Alexander, H. B., 143
 Alexander, L., 249
 Alexander, N. B., 195
 Alexander, S., 206
 Alexander, T., 83
 Alexander, W. H., 97
 Alexander, W. J., 309
 Alexander, W. M., 95
 Alford, J. M., 246
 Alford, Miss M., 161
 Ali, A., 81, 133
 Ali, M. A., 44
 Ali, M. H., 133
 Ali, M. Z., 8
 Ali, S. H., 44
 Ali, S. M., 6
 Allan, F. B., 309, 312
 Allan, G. E., 105, 107
 Allan, J., 178, 188
 Allard, L., 54
 Allard, R., 221, 227
 Allardin, R. E., 300
 Allbutt, Sir T. C., 47, 188
 Allen, Archdeacon, 207
 Allen, A. A., 123, 125
 Allen, B. M., 137
 Allen, B. S., 236
 Allen, C. E., 200
 Allen, C. G., 300
 Allen, E. A., 34, 35
 Allen, E. J., 271
 Allen, Miss E. M., 52
 Allen, E. W., 98, 100
 Allen, F. G., 90
 Allen, F. H., 114
 Allen, Sir H. B., 212
 Allen, H. C., 137
 Allen, H. P., 257, 258
 Allen, H. S., 92
 Allen, H. W., 214
 Allen, J. A., 97, 240
 Allen, Capt. J. H., 204
 Allen, J. T., 23
 Allen, Miss K., 201
 Allen, M. S., 80
 Allen, P. S., 63, 257
 Allen, R. L., 37
 Allen, S. E., 341
 Allen, T. W., 256, 257
 Allen, W. F., 99
 Alley, J., 245
 Allen, G. B., 260
 Alling, A. N., 229
 Allinson, F. G., 275
 Allison, A., 106
 Allison, D. M., 318
 Allison, J., 284
 Allison, M., 288
 Allison, W. H., 114
 Allmand, A. J., 150, 157
 Almack, J. C., 99
 Almon, W. B., 113
 Almond, Miss E. M., 161
 Almy, J. E., 143
 Alsberg, C. L., 333, 336
 Alsop, R. H., 213
 Alstine, E. V., 319
 Alter, D., 137
 Altman, J. T., 225
 Alton, A. E., 114
 Alton, E. H., 83
 Altrocchi, R., 64
 Altshiller, N., 245
 Alvarez, A. C., 25
 Alvord, C. W., 317
 Ambrozzi, A., 210
 Ames, E. S., 63
 Ames, J. L., 34, 271
 Ames, J. S., 14
 Ames, J. A., 343
 Ames, O., 36, 56
 Ami, H. M., 254
 Amos, A., 51
 Amos, Miss F. R., 69
 Amos, J., 344
 Amos, Thyrsa, W., 270
 Amy, A. F., 80
 Amyot, J. A., 309
 Anand, C., 131
 Anand, B. I., 133
 Ananikam, M. H., 117
 Ananten, D., 119
 Anderegg, F., 243
 Anderson, A., 103, 305
 Anderson, A. V. M., 213
 Anderson, C. R., 303
 Anderson, D. A., 302
 Anderson, E., 272
 Anderson, Miss E., 103, 142
 Anderson, E. M., 182
 Anderson, E. X., 110
 Anderson, F. M., 115
 Anderson, G. P., 224
 Anderson, G. R., 310
 Anderson, H. B., 310
 Anderson, H. K., 46, 49
 Anderson, H. W., 319
 Anderson, J. A., 262
 Anderson, J. B., 114

- Anderson, J. B. M., 106
 Anderson, J. G. C., 269
 Anderson, J. M., 285
 Anderson, J. W., 145
 Anderson, Miss L., 253
 Anderson, L. F., 77
 Anderson, P. J., 1, 3
 Anderson, R. J., 104
 Anderson, R. P., 123
 Anderson, W., 105, 145
 Anderson, W. B., 206
 Anderson, W. G., 228
 Anderton, W. B., 207, 208
 Andrew, A. E., 342
 Andrew, R. C., 231
 Andrewes, F. W., 151, 166
 Andrews, A. I., 210
 Andrews, A. L., 123
 Andrews, B. R., 233
 Andrews, C., 263
 Andrews, C. E., 76
 Andrews, C. McL., 227
 Andrews, C. W., 178
 Andrews, E. A., 14
 Andrews, E. P., 123
 Andrews, F. M., 30
 Andrews, G. W., 249
 Andrews, H. R., 169
 Andrews, H. T., 158, 159
 Andrews, Miss L. E., 246
 Andrews, R. C., 240
 Andrews, S. P., 8
 Andrews, W. H., 252
 Angell, F., 300
 Angell, J. R., 62, 63
 Angier, R. P., 227
 Angus, C. F., 49
 Angus, G. H. C., 291
 Angus, H. B., 89
 Angus, H. F., 190, 322
 Angus, J. M., 59
 Angus, R. W., 310
 Annandale, N., 45
 Annear, Miss, 132
 Ansari, M. J., 44
 Ansell, M. M., 118
 Anstey, P., 32
 Anthony, E. L., 302
 Anthony, G. C., 210
 Anthony, H. E., 240
 Anthony, R. D., 104
 Appel, R. G., 56
 Appleyby, M. P., 260
 Applegate, R. A., 270
 Appleton, A. B., 51
 Appleton, H. W., 292, 293
 Arab, K. I., M. 44
 Archuthnot, C. C., 68
 Archambault, Sir H., 221, 222
 Archambault, R., 221
 Archer, Miss E., 298
 Archer, J. C., 229
 Archer, P., 324
 Archer, R. L., 19
 Archibald, E. H., 322
 Archibald, J. G., 258
 Archibald, Major R., 127
 Archibald, Miss R. C., 275
 Ardagh, E. G. R., 310
 Arendt, M., 235
 Arkley, L. M., 310
 Arlitt, Mrs. A. H., 41
 Armitage, B. F., 50
 Armitage-Smith, G., 160
 Armsby, H. P., 302, 303
 Armstrong, A. C., 216
 Armstrong, L., 257
 Armstrong, E. C., 272
 Armstrong, F. E., 273
 Armstrong, G. E., 219
 Armstrong, G. N., 80
 Armstrong, H. E., 184, 190
 Armstrong, H. F., 219
 Armstrong, H. M., 303
 Armstrong, W. G., 306
 Armstrong, W. H. F., 10
 Armstrong, W. P., 274
 Armstrong-Jones, R., 166
 Arneson, B. A., 80
 Arnold, C., 268
 Arnold, C. L., 76
 Arnold, E. V., 19.
 Arnold, H. L., 250
 Arnold, J. L., 236
 Arnold, P., 196
 Arnold, St. T., 275
 Arnold, W. R., 55, 57
 Arny, H. V., 234
 Arps, G. F., 75
 Arrow, G. J., 178
 Artman, J. M., 64
 Asakawa, K. I., 228
 Aschman, F. T., 270
 Aselin, E., 221
 Ash, I. E., 12
 Ashbaugh, E. J., 121
 Ashbough, F. M., 26
 Ashbrook, J. S., 270
 Ashby, E., 5
 Ashcombe, Rt. Hon. Lord, 112
 Ashe, W. W., 338
 Ashley, F. W., 334
 Ashley, G. H., 339
 Ashley, R. H., 211
 Ashley, Sir W., 28, 29
 Ashmore, W. H. H., 87
 Ashmun, G. C., 68
 Ashton, C. H., 137
 Ashton, H., 322
 Ashton, T. S., 29
 Ashworth, J. H., 80, 96, 253
 Asmus, H., 124
 Asquith, C., 258
 Athanas, Father, 135
 Athearn, W. S., 33, 35
 Atkin, The Rt. Hon. Lord Justice, 148
 Atkin, E. G., 201
 Atkins, H. G., 148, 152, 156
 Atkins, J. W. H., 3
 Atkins, K. N., 115
 Atkins, W. R. G., 83
 Atkinson, A. A., 12
 Atkinson, C. T., 257
 Atkinson, D., 207
 Atkinson, R. L., 183
 Atwell, S. W., 183
 Atwater, Rev. A., 30
 Atwell, W. J., 42
 Atwood, W. W., 53
 Aubert, A., 278
 Aubry, H., 220, 221
 Auclair, E., 278
 Audas, J. W., 298
 Auden, G. A., 29
 Auger, C. E., 309
 Anjanger, S. K., 204
 Aul, G. N. R. A., 71
 Aul, M. R. R. S., 71
 Auld, S. J. M., 280
 Ault, W. O., 33, 34
 Anmonier, F. S., 180
 Aurelio, W. G., 33
 Aurner, Miss N. S., 120
 Arousseau, M., 264
 Aust, F. A., 203
 Austen, H., 166
 Austen, W., 125
 Austin, C. B., 80
 Austin, E. E., 178
 Austin, F. E., 115
 Austin, L. J., 169
 Austrian, C. R., 15
 Aveling, F., 155
 Averill, F. L., 335
 Avery, Miss E. J., 277
 Avery, L. G., 197
 Avery, S., 141, 251
 Avey, A. E., 76
 Avey, H. T., 8
 Aylsworth, L. E., 143
 Aymar, F. W., 237
 Aynsley, Miss A. N., 163
 Ayres, C. E., 10
 Ayres, H. M., 233
 Azhar-us-Sadain, 44
 Aziz, M. A., 264
 Azyangar, M. R. R. K. R., 204
 Baade, H. J., 25
 Babasinau, V. S., 27
 Babbitt, A., 143
 Babbitt, F. C., 116
 Babbitt, H. Z., 318
 Babbitt, I., 53
 Babcock, E. B., 24, 236
 Babcock, E. J., 110
 Babcock, H. D., 262
 Babcock, H. E., 125
 Babcock, K. C., 317
 Baber, Miss Z., 65
 Babock, R. E., 66
 Bachelie, C. V., 320
 Bachman, Major J. T., 228
 Back, I. L., 168
 Backstrand, Miss I. J., 198
 Bacon, B. W., 229, 262
 Bacon, C. F., 236
 Bacon, Clara, L., 18
 Bacon, C. S., 319
 Bacon, F., 60
 Bacon, Miss G. M., 297
 Bacon, G. P., 211
 Bacon, J. W., 84
 Bacon, L., 23
 Bacon, Miss N., 199
 Bacon, R. F., 269
 Badock, S. H., 38
 Badersher, J. A., 31
 Badley, T. C., 200
 Badolett, F. V., 100
 Baekeland, L. H., 235
 Baer, A. A., 141
 Baer, W. S., 15
 Baetjer, F. H., 15
 Baetjer, W. A., 15
 Bage, C., 213
 Bagby, A., 17
 Bagley, J. C., 15
 Bagley, W. C., 232
 Bagster, L. S., 37
 Bagster-Collins, E. W., 232
 Bahl, L. B. D., 132
 Bailey, C., 257
 Bailey, E. B., 182
 Bailey, E. H. S., 137
 Bailey, E. W., 319
 Bailey, F. W., 286
 Bailey, I. W., 36
 Bailey, J., 179
 Bailey, L. W., 102
 Bailey, R. C., 166
 Bailey, W. B., 227
 Bailey, W. N., 28
 Bailey, V., 337
 Bailie, H. W., 22
 Bailie, J. B., 2
 Bailly, F. G., 94
 Bailly, G. E., 196
 Bain, Miss A., M. 81
 Bain, A. W., 163
 Bain, J. D., 310
 Bain, P. B., 323
 Bainbridge, F. A., 151, 166
 Bainbridge, J. P., 212
 Baines, A. M., 310
 Baines, F. T., 139
 Bair, F. H., 201
 Baird, A. W., 99
 Baird, H. S., 25
 Baird, Capt. R. C., 99
 Bairstow, G. E., 2
 Baitsell, B. A., 228
 Baizini, J. M., 210
 Bake, L. E., 320
 Baker, A., 309
 Baker, A. B., 332
 Baker, A. C., 338
 Baker, A. T., 292
 Baker, A. W. W., 83
 Baker, A. W., 112
 Baker, C. A., 323
 Baker, C. F., 211
 Baker, E. A., 152, 155
 Baker, E. C. S., 192
 Baker, E. L., 240
 Baker, F. C., 320
 Baker, F. G., 178
 Baker, F. T., 232
 Baker, G. E., 258
 Baker, G. P., 53
 Baker, G. S., 183
 Baker, H. B., 165
 Baker, H. F., 47
 Baker, H. J., 211
 Baker, I. O., 318
 Baker, H. T., 18
 Baker, J. B., 261
 Baker, J. C., 104
 Baker, J. L., 193
 Baker, Miss M., 340
 Baker, R. P., 120, 316
 Baker, R. R., 291
 Baker, R. T., 307
 Baker, W. C., 124
 Bakewell, C. M., 227
 Bakewell, M. M., 250
 Bakewell, P., 287
 Bakshsh, M., 132
 Bal, S. B., 43
 Baldwin, B. T., 120
 Baldwin, G. S., 232
 Baldwin, E. C., 318
 Baldwin, J. P., 271
 Baldwin, J. M., 298
 Baldwin, Miss M., 145
 Balfour, Rt. Hon. A. J., 91, 182
 Balfour, I. B., 91, 96
 Bali, L. A. N., 132
 Ball, C. R. E., 337
 Ball, L., 29
 Ball, Miss M., 297
 Ball, T. R., 14
 Ball, W. G., 166
 Ball, W. V., 157

INDEX TO NAMES

- Ballance, Sir C. A., 148, 167
 Ballantine, H. W., 317, 319
 Ballantine, Lt.-Col. J., 114
 Ballantyne, J. W., 93
 Ballard, C. W., 235
 Ballard, Miss A. W., 233
 Ballard, E., 72
 Ballard, W. C., 125
 Balleid, C. H., 248
 Ballou, H. A., 21
 Balmer, W. T., 101
 Balsillie, D., 92
 Baly, E. C. C., 144
 Balz, E. H., 269
 Bamber, J. R., 40
 Bamber, Miss R. C., 145
 Bamberger, Miss F. E., 14
 Bamford, A. J., 74
 Bancroft, E. C., 253
 Bancroft, J. A., 219
 Bancroft, W. D., 122
 Banerjee, S., 43
 Banerji, A. K., 45
 Banerji, B. B., 20
 Banerji, K. C., 20
 Banerji, K. L., 45
 Banerji, Hon. Justice Sir P. C., 7
 Banerji, P. K., 20
 Banerji, R. C., 20
 Banerji, S. S., 20, 20
 Bangham, D. H., 207
 Banister, J. M., 251
 Banker, H. J., 72
 Bannatyne, C. A., 95
 Bannerjee, G. N., 200
 Bannerji, A., 126
 Bannister, J. M., 112
 Banta, A. M., 72
 Bantock, G., 29
 Barbeau, C. M., 254
 Barber, C. A., 72
 Barber, C. D., 180
 Barber, E. A., 257
 Barber, G. E., 143
 Barber, P., 163
 Barber, P. E., 293
 Barber, H. W., 167
 Barber, W. A., 237
 Barbier, J. L. A., 3
 Barbier, P., 60, 140
 Barbour, 272
 Barbour, Miss A. L., 247
 Barbour, A. H. F., 93
 Barbour, Miss C., 143
 Barbour, C. A., 182
 Barbour, E. H., 143
 Barbour, H. G., 229
 Barbour, W. T., 229
 Barbour, A. H. F., 94
 Barclay, J., 256, 259
 Barelay-Smith, E., 150, 157
 Barck, C., 286
 Barcroft, J., 47, 49
 Bardeen, C. R., 203
 Bardsley, G. H., 74
 Bareis, Miss G. M., 76
 Barff, H. E., 305
 Barger, G., 92
 Baril, G., 220
 Barkan, H., 301
 Barker, A. H., 156
 Barker, B. T. P., 39
 Barker, E., 258
 Barker, E. E., 124
 Barker, F. D., 143
 Barker, H., 92
 Barker, H. W., 204, 314
 Barker, J. M., 34
 Barker, L. F., 14
 Barker, S. G., 315
 Barker, Miss S. M., 98
 Barker, T. V., 257, 259
 Barkle, C. G., 91
 Barling, Sir G., 28
 Barling, S., 29
 Barlow, G., 28
 Barlow, R., 209
 Barnaby, J., 214
 Barnard, E. E., 63
 Barnard, F., 163
 Barnard, Sir F. S., 322
 Barnard, F. T., 276
 Barnard, J., 339
 Barnard, J. E., 157, 190
 Barnard, K. H., 58
 Barnard, W. N., 125
 Barnes, A. E., 293
 Barnes, A. F., 287
 Barnes, F. A., 125
 Barnes, J., 40
 Barnes, N. W., 64, 65
 Barnes, R. M., 67
 Barnes, W. E., 47
 Barnett, Claribel R., 334
 Barnett, G. D. F., 301
 Barnett, G. E., 14
 Barnett, J. D., 99, 196
 Barnett, L. D., 177
 Barnett, L. E., 87
 Barnett, R. J., 276
 Barney, S. E., 228
 Barnhart, J. H., 244
 Barnum, Miss M., 35
 Barr, R. A., 225
 Barra, P. E., 31
 Barratt, A. H., 29
 Barre, H. W., 67
 Barret, L. C., 116, 241
 Barrett, J. T., 24
 Barrett, Sir J. W., 213
 Barrett, Lady, 175
 Barrett, Miss M. G., 159
 Barrett, S. B., 64
 Barrett-Lennard, F., 159
 Barrie, Bailie, 94
 Barrie, Sir J. M., 284
 Barrington, F. J. F., 171
 Barrington-Lard, L. E., 174
 Barris, J. D., 166
 Barron, E. W., 211
 Barron, J. H., 125
 Barrow, F., 159
 Barrows, D. P., 23
 Barrows, H. H., 63
 Barrows, Miss S. T., 76
 Barrows, W. E., 253
 Barrows, W. M., 76
 Barrs, A. G., 140
 Barrus, M. F., 124
 Barry, C. K., 249
 Barry, D. T., 78
 Barry, F., 236
 Barry, F. R., 257
 Barshed, Miss E. R., 298
 Barsa, A. F., 322
 Barstow, J. M., 250
 Bartclmez, 64
 Barth, I. V., 287
 Bartholomew, A. T., 51
 Bartholomew, E. T., 201
 Bartlett, D., 267
 Bartlett, E. J., 115
 Bartlett, G. B., 169
 Bartlett, J. B., 262
 Bartlett, J. M., 253
 Bartlett, P., 115
 Bartlett, R. L., 27
 Bartlett, W. M., 288
 Bartmann, A. B., 304
 Bartoli, A., 321
 Barton, B. H., 86
 Barton, F. A., 123
 Barton, G. A., 40
 Barton, G. T., 163
 Barton, H., 220
 Barton, H. J., 317
 Barton, R., 17
 Barton, W. M., 323
 Bartow, E., 317
 Bartsch, P., 325, 331
 Barus, C., 275
 Barwell, H. S., 168
 Bascom, Miss F., 40
 Base, D., 17
 Bashall, F. H., 51
 Baskerville, C. R., 63
 Baskin, E., 17
 Basore, J. W., 272
 Bassett, G. C., 263
 Bassett, H., 280
 Bassett, J. S., 247
 Bassett, L. E., 299
 Bassett-Smith, Surgeon-Capt. P. W., 177
 Bassler, R. S., 325, 331, 339
 Basson, J., 304
 Bastable, C. F., 83
 Bastedo, W. A., 235
 Bastin, E. S., 63, 329
 Basu, B. K., 126
 Basu, D., 45
 Basu, M. N., 295
 Basu, S. C., 45
 Basye, A. H., 115
 Batchelder, C. H., 253
 Batchelder, F. P., 34, 35
 Batchelor, L. D., 24
 Batchelor, W. C., 316
 Bateman, A. M., 228
 Bateman, W. G., 217
 Bates, Miss E., 247
 Bates, E. S., 99
 Bates, F. G., 31
 Bates, G. A., 211
 Bates, H. M., 55
 Bates, J. E., 324
 Bates, W. H., 120
 Bateson, W., 194
 Bather, F. A., 178
 Batho, C., 219
 Batt, F. R., 145
 Batt, H. E., 312
 Batten, G. B., 194
 Batten, L. W., 238
 Battley, Miss L., 137
 Battle, W. H., 167
 Batts, R. L., 301
 Battye, J. S., 263
 Baudouin, J., 221
 Bauer, F. C., 319
 Bauer, L. A., 332
 Baugh, D., 267
 Baulne, A. S., 221
 Baumgartner, W. J., 137
 Baumgardt, M. F., 198
 Baur, P. V. C., 228
 Bawtree, B. F., 181
 Baxandall, F. E., 51
 Baxter, A. H., 101, 62
 Baxter, F. H. A., 219
 Baxter, G. P., 53, 56
 Baxter, J. S., 21, 22, 83
 Baxter, Miss O. M., 117
 Bay, R. P., 17
 Baycraft, J. B., 60
 Baylay, Miss A. M., 194
 Bayley, W. S., 317
 Bayliss, H. A., 178
 Bayliss, 184
 Bayliss, W. M., 151, 155
 Bayliss-Elliott, Mrs. J., 28
 Bayne-Jones, S., 15
 Baynes, R. E., 256, 259
 Baynes, N. H., 152, 155
 Bazett, H. C., 258
 Beach, E., 203
 Beach, Miss D., 253
 Beach, F. E., 228
 Beach, H. P., 229
 Beach, J. K., 229
 Beach, W. G., 276
 Beadles, C. F., 167
 Beal, A. C., 124
 Beal, G. D., 318
 Beal, J. H., 270
 Beal, N. H., 195
 Beale, J. H., 55, 305
 Beale, Miss H. M., 70
 Bean, B. A., 331
 Bean, E. F., 201
 Bean, H. C., 99
 Bean, W. J., 195
 Beans, H. T., 234
 Bear, F. E., 76
 Beard, J., 92
 Beard, J. G., 61
 Beardsley, W. A., 18
 Beare, T. H., 91
 Beasley, H., 264
 Beattie, J. C., 57
 Beattie, J. M., 144
 Beattie, R., 206
 Beattie, R. K., 337
 Beattie, T., 89
 Beatty, A., 201
 Beatty, H. M., 76
 Beatty, R. T., 22
 Beatty, S., 309
 Beatty, W., 83
 Beauchamp, A., 221
 Beaugrand-Champagne, A., 221
 Beaupré, E., 221
 Beaven, M. L. R., 248
 Beaver, J. L., 27
 Beazley, C. R., 29
 Beazley, J. D., 254
 Bechdel, S. I., 303
 Bechtel, J. R., 303
 Beck, Mrs. A. L., 100
 Beck, E. J., 80
 Beck, E. L., 76
 Beck, G. C., 27
 Beck, H. G., 16
 Beck, J. B., 41
 Beck, J. C., 319
 Beck, Hon. N. D. D., 96
 Becker, A. J., 110
 Becker, C., 123
 Becker, H., 326
 Becker, H. A., 68
 Becker, S. A., 27
 Beckett, The Hon. R. E., 139
 Beckett, S. H., 24
 Becknell, G. G., 268
 Beckwith, Mrs. E. R., 60
 Beckwith, 272
 Beckwith, H., 74

- Bédard, A., 278
 Beddard, A. P., 167, 168
 Bedell, F., 122
 Bedford, Duke of, 176, 187
 Bedford, Capt. H. W., 127
 Bedford, S. E. W., 63
 Bedson, P. P., 89
 Beede, J. W., 30
 Beemer, N. H., 309
 Beers, Miss C. V., 197
 Beeson, C. H., 63
 Beeson, L. W., 331
 Beetle, R. D., 115
 Beggs, G. E., 274
 Bégin, L. N., 277
 Behrend, E. B., 323
 Beilby, Sir G., 106
 Beilby, Sir G. T., 182
 Bek, W. G., 110
 Belas, P. E., 79
 Belfour, A. O., 22
 Belgrave, W. N. C., 128
 Belhaven and Stenton, the Lord, 187
 Belinfante, L. L., 186
 Bell, A. J., 309
 Bell, C. F., 258
 Bell, H. I., 177
 Bell, J., 258
 Bell, J. F., 99
 Bell, J. M., 61
 Bell, J. W., 219
 Bell, R. J. T., 105
 Bell, R. W., 67
 Bell, T. D., 180
 Bell, W. B., 145
 Bell, W. H., 58
 Bellars, A. E., 279
 Bellatty, C. E., 34
 Belleau, E., 278
 Bellhouse, H. H., 208
 Bellis, A. E., 108, 134
 Bellisle, H. S., 312
 Bellows, H. P., 34
 Belote, T. T., 331
 Belsler, F. C., 286
 Belting, P. E., 318
 Bombower, W., 8
 Bemis, S. F., 74
 Benade, J. M., 131
 Bender, A. P., 53
 Bender, H. H., 272
 Benicke, P. V. M., 258
 Benedict, F. G., 36
 Benedict, G. W., 275
 Benedict, J. E., 331
 Benedict, S. R., 123
 Benedict, Miss S. R., 247
 Beng-Ough, E. J., 313
 Bengtson, Miss A., 336
 Bengtson, N. A., 143
 Benham, B., 51
 Benham, E. W., 4
 Benham, W. B., 87
 Benians, E. A., 50
 Benjamin, E. W., 124
 Benjamin, G. G., 120
 Benjamin, M., 332
 Benkendorf, G. H. W., 203
 Bennett, C. A., 228
 Bennett, C. E., 10, 122
 Bennett, E., 202
 Bennett, G. E., 15
 Bennett, H. S., 131
 Bennett, J., 207
 Bennett, Mrs. M. U., 249
 Bennett, P., 107
 Bennett, W. E., 29
 Bennett, W. H., 207
 Bennette, H. W. P., 145
 Benoit, E., 221
 Bensley, B. A., 309
 Bensley, R. R., 64
 Benson, A. C., 50
 Benson, Miss C. C., 310
 Benson, J. B., 154
 Benson, M. J., 98, 150
 Benson, R. L., 99
 Benson, W. N., 87
 Bentley, C., 279
 Bentley, F. L., 303
 Bentley, F. W., 110
 Bentley, J., 124
 Bentley, M., 317
 Bentley, R. C., 143
 Bentley, W. B., 12
 Bently, B. H., 293
 Benton, A. B., 198
 Benton, E. J., 68
 Benyon, J. H., 280
 Berdan, J. M., 228
 Berdy, O., 156
 Berger, F. A., 287
 Bergeron, O., 278
 Bergin, O., 85
 Bergin, W., 78
 Berggren, A. E., 202
 Berkeley, C., 173
 Berkey, C. P., 234
 Berkley, H. J., 15
 Bernard, Most Rev. J. H., 82, 87
 Bernard, W. S., 61
 Bernardini, Rt. Rev. F., 327
 Bernbaum, E., 317
 Bernhard, F. J., 320
 Bernhard, J. W., 326
 Bernier, A., 220
 Bernier, Ls. M. J. A., 278
 Bernstein, B. A., 24
 Bernthon, H. S., 323, 326
 Berry, A., 47, 49
 Berry, A. J., 51
 Berry, E. W., 14
 Berry, G. R., 114
 Berry, J., 175
 Berry, L. G., 30
 Berry, Mrs. M. D., 175
 Berry, R. A., 108, 208
 Berry, R. E., 134
 Berry, R. J. A., 212
 Berry, Miss S., 10
 Berthon, H. E., 256
 Berwick, W. E. H., 19
 Besharatullah, 44
 Besselaa, R. G., 267
 Bethune, C. J. S., 111
 Bethune-Baker, J. F., 47
 Betten, C., 124
 Bevan, A. A., 48, 51
 Bevan, A. C., 217
 Bevan, A. D., 64
 Beveridge, Sir W. H., 147, 162
 Bevier, Miss I., 319
 Bevier, L., 226
 Bewer, J. A., 239
 Bewley, H., 83
 Bewley, H. T., 85
 Bewes, J. W., 267
 Beye, M. L., 121
 Bezdek, H., 302
 Bhagvat, N. K., 32
 Bhakay, G. N., 200
 Bhandarker, S. R., 43
 Bhasin, A. N., 133
 Bhathacharya, S., 81
 Bhatia, K. L., 10
 Bhatt, V. T., 27
 Bhattacharji, J., 45
 Bhattacharya, K. P., 44
 Bhattacharya, S. C., 132
 Bhattacharyya, A. K., 292
 Bhattacharyya, D. K., 263
 Bhide, H. B., 27
 Bibb, A. B., 325, 326
 Bickers, W., 293
 Bickersteth, R. A., 145
 Bickerton, T. H., 145
 Bickley, J. H., 27
 Bickmore, H. C., 163
 Bidder, H. J., 259
 Biddle, J. F., 270
 Bideleux, Miss H., 162
 Bidwell, C. C., 123
 Bidwell, P. W., 228
 Bieber, R. P., 287
 Biermann, E. H., 31
 Biffen, R. H., 48, 189
 Bigelow, A. H., 250
 Bigelow, H. A., 64
 Bigelow, H. E., 283
 Bigelow, Miss H. W., 247
 Bigelow, L. L., 76
 Bigelow, M. A., 233
 Bigelow, M. M., 34, 35
 Bigelow, W., 9
 Biggs, H. M., 237
 Bigongiari, D., 233
 Bilderback, J. B., 99
 Biles, Sir J. H., 105
 Biles, Miss M. E., 197
 Bill, A. H., 68
 Bill, C. P., 68
 Bill, E. G., 115
 Billings, F., 64
 Bills, Miss M. A., 137
 Bilsborrow, J. D., 319
 Bilson, J., 191
 Binder, R. M., 237
 Bingham, E. C., 90
 Bingham, G. A., 310
 Bingham, H., 227, 230
 Bingham, J. W., 301
 Binyon, R. L., 177
 Bioletti, F. T., 24
 Birch, G. S., 8
 Birch, R. R., 124
 Birch, J. N., 292
 Bird, F. D., 212
 Bird, J. T. J., 237
 Bird, W. H. B., 183
 Birdseye, C. H., 329
 Birge, E. A., 200
 Birge, E. G., 121
 Birkett, G. A., 292
 Bitt, Hrke, S., 219
 Birkhoff, G. D., 54
 Birney, L. J., 33, 34
 Birnie, A., 2
 Birtwistle, G., 49
 Bishop, A. L., 227
 Bishop, C. O., 287
 Bisson, C. S., 279
 Bishop, C. T., 223
 Bishop, F. L., 288
 Bissell, J. B., 237
 Bissell, B. McL., 197
 Bithell, J., 159
 Bixby, F. L., 281
 Bizzell, J. A., 124
 Bjorkhagen, Im., 156
 Blachford, J. V., 39
 Blachly, F. F., 245
 Black, Miss A. K., 33
 Black, C. R., 137
 Black, E. C., 33, 35
 Black, H., 239
 Black, H. H., 196
 Black, J. G., 183
 Black, Miss R. C., 161
 Black, R. M., 268
 Black, W. W., 31
 Blackadder, W., 107
 Blackader, A. D., 219
 Blacker, G., 171
 Blackett, W. A. M., 213
 Blackfan, K. D., 15
 Blacklaw, A., 2
 Blackledge, J., 198
 Blacklock, B., 147
 Blackman, F. F., 48
 Blackman, V. H., 165
 Blackmar, F. W., 136
 Blackmore, B., 125
 Blackwelder, E., 300
 Blackwood, W. C., 111
 Blagden, C. O., 152
 Blaine, R. G., 323
 Blair, J. C., 319
 Blair, K. G., 178
 Blair, V. P., 288
 Blair, W. R., 238
 Blair, W. W., 269
 Blaisdell, F. E., 300
 Blaisdell, T. C., 301
 Blaisdell, T. C., jr., 8
 Blake, C. F., 16
 Blake, F. C., 75, 78
 Blake, F. R., 14
 Blake, H. C., 17
 Blake, J. H., 253
 Blake, J. B., 54
 Blake, J. D., 16
 Blake, R. W., 26
 Blakeley, Miss B. E., 298
 Blaker, E., 123
 Blakeslee, A. F., 72
 Blakeslee, G. H., 343
 Blakeston, H. E. D., 255
 Blakey, H. B., 76
 Blakiston, H. E. D., 259
 Blanchard, F. M., 64
 Bland, R. J., 170
 Bland-Sutton, Sir J., 167, 173
 Blanton, S., 201
 Blasdale, W. C., 25
 Blasingame, R. U., 302
 Blau, M. F., 272
 Blease, W. L., 145
 Bleazby, R., 264
 Bleile, A. M., 76
 Blesh, A. L., 246
 Bleyer, W. G., 200
 Blichfeldt, H. F., 300
 Blich, J. M., 145
 Bliss, C. P., 236
 Bliss, G. A., 63
 Bliss, Miss L. A., 247
 Bliss, R. W., 142, 251
 Bliss, W. J. A., 14
 Block, J., 137
 Block, Miss K. S., 98
 Blodgett, F. B., 238
 Blodgett, F. M., 125
 Blodgett, W. K., 125
 Blommaert, W., 304
 Blondheim, D. S., 14
 Blood, M., 190

INDEX TO NAMES

- Bloomfield, A. L., 15
 Bloomfield, L., 318
 Bloomfield, M., 14
 Bloor, W. R., 23
 Blue, R., 335
 Blum, S., 24
 Blumenberg, J. H., 198
 Blumenschein, F. J., 270
 Blumer, G., 227, 229
 Blunt, H. W., 259
 Blunt, Miss K., 63
 Blunt, T. G. R., 67
 Boardman, H. P., 281
 Boardman, H. S., 252, 253
 Boardman, W. W., 300
 Boas, F., 332
 Boaz, F., 233
 Bobbitt, J. F., 65
 Boehert, W. C., 279
 Bode, B. H., 317
 Boden, F. H., 29
 Bodmer, H. S., 109
 Boesche, A. W., 122
 Bogardus, E. S., 196
 Bogart, E. L., 318
 Bogert, M. T., 233
 Bogle, R. B., 225
 Boggs, T. H., 322
 Boggs, T. R., 15
 Bohan, P. T., 137
 Bohane, E., 86
 Bohannan, R. D., 75
 Bohle, H., 58
 Bohler, J. F., 276
 Bohn, W. F., 248
 Bohstedt, G., 203
 Boiler, W. F., 121
 Boillot, F. F., 38
 Boisliniere, L., 286
 Bolam, H. W., 105
 Bolam, R. A., 89
 Boland, F. J., 246
 Boland, R. G., 246
 Bolter, P., 197
 Bolles E. C., 210
 Bolling, G. M., 75
 Bolser, C. E., 115
 Bolton, C., 171
 Bolton, E. R., 193
 Bolton, H., 39
 Bolton, H. E., 23
 Bolton, J. S., 140
 Boltwood, B. B., 228
 Bolus, Mrs. F., 58
 Bomford, T., 264
 Bond, H., 49
 Bond, Miss M., 175
 Bond, P. A., 120
 Bond, R. W., 248
 Bone, W. A., 165
 Bone, Miss W. A., 293
 Bonham, M. L., 71
 Bonham, W. B., 55
 Bonine, C. A., 302
 Bonner, A., 289
 Bonner, R. J., 63
 Bonney, V., 173
 Bonsall, Miss, 165
 Bonser, F. G., 232
 Bontin, J., 222
 Boodgood, J. C., 15
 Boodle, L. A., 195
 Book, W. F., 30, 31
 Booker, J. M., 61
 Bookmiller, E. V., 324
 Boole-Stott, A., 144
 Boon, A. A., 94
 Boone, R. G., 26
 Boone, W., 100
 Boord, C. E., 76
 Booth, C. O., 270
 Booth, S. R., 4
 Borchart, E. M., 229
 Bordeaux, E. F. J., 213
 Borden, B. C., 283
 Borden, C. F., 327
 Borden, D. Le R., 326
 Borden, Miss G. A., 97
 Borden, W. C., 325, 328
 Bordenius, P., 121
 Borenius, T., 155
 Borger, R. L., 12
 Borgerhoff, J. L., 69
 Borgmeyer, C. J., 286
 Boring, Miss A., 203
 Boring, E. G., 343
 Boring, O. K., 80
 Boring, W. A., 232
 Borland, A. A., 302
 Bonadaile, L. A., 48, 51
 Borthwick, M. G., 196
 Borthwick, Miss P. M., 81
 Borthwick, T., 4
 Bosanquet, R. C., 144
 Bosanquet, W. C., 170
 Bose, A. C., 43
 Bose, A. M., 43
 Bose, H. K., 45
 Bose, H. T., 8
 Bose, N. N., 200
 Bose, S. C., 132
 Bosman, A. M., 272
 Boss, B., 6
 Bossard, J. H. S., 90
 Bostwick, C. D., 122
 Boswell, A. B., 144
 Boswell, M. C., 310
 Boswell, P. G. H., 144
 Bosworth, 172
 Bosworth, E. I., 248, 249
 Botkin, C. W., 108
 Bott, Capt. R. H., 131
 Bottomley, L., 207
 Bottomley, W. B., 150, 157
 Boucher, C. S., 76
 Boucher, S., 221
 Bouecke, O. F., 302
 Bouffard, J., 278
 Boulden, F., 293
 Boulenger, C. L., 28
 Boulenger, E. G., 187
 Boulenger, G. A., 178
 Bounton, E. S., 39, 40
 Bounton, W. S., 28
 Bourdillon, R. B., 257
 Bourgeois, B., 221
 Bourgonin, L., 221
 Bourland, Miss C. B., 247
 Bourland, B. P., 68
 Bourne, G. C., 256, 257
 Bourne, H. E., 69
 Bousfield, W. R., 194
 Boutell, Hon. H. S., 324
 Bontelle, C. A., 125
 Bonton, A. L., 236
 Bonton, C. L., 54
 Boutroux, P. L., 274
 Boutwell, P. W., 203
 Bovard, D. Jr., 235
 Bovard, G. F., 196
 Bovard, J. F., 99
 Boves, J. W., 326
 Boving, P. A., 322
 Bowen, E., 27
 Bowen, J. E., 157
 Bowen, W. S., 326
 Bowen, B. L., 75
 Bower, F. O., 96, 105
 Bowers, F. G., 97
 Bowie, W., 328
 Bowly, Sir A., 166, 167
 Bowler, J. W., 115
 Bowles, C. W., 109
 Bowles, R. P., 311
 Bowles, S. W., 323
 Bowles, T., H. 180
 Bowley, A. L., 151, 162
 Bowman, A. A., 272
 Bowman, D., 163
 Bowman, Ethel, 18
 Bowman, E. M., 302
 Bowman, F., 209
 Bowman, H. L., 256, 258
 Bowman, H. M., 34, 35
 Bowman, I., 242
 Bowman, T., 257
 Bownocker, J. A., 75
 Bowsfield, W. R., 148
 Bowyer, W., 180
 Box, C. R., 166
 Box, G. H., 157
 Box, Canon G. N., 156
 Boxwell, W., 85
 Boyce, W. G., 14
 Boycott, A. E., 151, 171, 283
 Boyd, A. R., 334
 Boyd, D. R., 297
 Boyd, F. D., 92
 Boyd, H., 260
 Boyd, J. E., 77
 Boyd, S. A., 157
 Boyd, W., 105
 Boyden, E. A., 54
 Boyer, W. H., 100
 Boylan, P., 85
 Boyle, A. C., Jr., 134
 Boyle, H. E. G., 166
 Boyle, J. E., 124
 Boyle, R. F., 97
 Boyle, T. S., 342
 Boyle, W. W., 268
 Boynton, A. J., 136
 Boynton, C. H., 238
 Boynton, K. R., 244
 Boynton, P. H., 63
 Boynton, W. P., 99
 Boys-Smith, W. L., 87
 Boyton, N., 324
 Bozell, H. V., 228
 Brabant, F. G., 260
 Brabrook, Sir E., 184
 Brace, D., 24
 Brack, C. E., 16
 Bracken, J., 291
 Brackett, C. A., 54
 Brackett, E. E., 141
 Brackett, E. G., 54
 Brackett, F. S., 262
 Brackett, H. D., 343
 Brackett, R., 115
 Bradbury, J. B., 47
 Brade-Birks, S. G., 344
 Bradford, Harriett, 299
 Bradford, H. E., 142
 Bradford, J. N., 75
 Bradford, Sir J. R., 171
 Bradley, C. L., 258, 259
 Bradley, F. H., 257
 Bradley, H., 259
 Bradley, H. C., 203
 Bradley, J. C., 123, 124
 Bradley, O. C., 92, 94, 95
 Bradshaw, J. C., 67
 Bradshaw, Miss M., 247
 Brady, E. P., 288
 Brady, J. E., 247
 Brady, J. M., 286
 Bragg, Miss A., 246
 Bragg, W. H., 151, 155, 306
 Bragg, W. L., 206
 Brakspear, H., 191
 Braman, Miss W. W., 303
 Bramble, F., 17
 Bramholtz, G. E. K., 206
 Bramwell, E., 93
 Branch, C. E. K., 25
 Branch, M. W., 200
 Brand, Hon. R. H., 258
 Brandenburg, E. C., 326
 Brandin, L. M., 150, 155
 Brandt, H. C. G., 71
 Brandt, J. G., 136
 Branham, J. H., 16
 Bransby, C., 24
 Branson, E. C., 61
 Branson, W. P. S., 175
 Brash, J. C., 29
 Braun, B. F., 253
 Braun, W. A., 232
 Brauner, O. M., 125
 Braunnholtz, E. G. W., 48
 Brannholtz, H. J., 178
 Braunton, E., 196
 Brautlecht, C. A., 253
 Bray, W. C., 25
 Brayton, Ada M., 262
 Breasted, J. H., 63
 Brebner, Miss M., 3
 Breck, J., 241
 Breckenridge, L. P., 228
 Breckenridge, W. K., 249
 Breckinridge, Miss S. P., 64
 Breed, D. R., 270
 Breed, F. S., 65
 Breed, R. S., 104
 Breene, F. T., 121
 Breitenbecher, J. J., 69
 Breitweiser, J. V., 26
 Bremer, J. L., 54
 Brench, G. R., 139
 Brenchley, Miss W. E., 283
 Brend, W. A., 170
 Breneman, P. B., 303
 Brenke, W. C., 143
 Brennan, H., 105
 Brennan, H. C., 92
 Brent, H., 16
 Bretonet, J. Le G., 305
 Bretonet, W. W., 103
 Bressler, E. G., 302
 Breton, E. H., 248
 Brett, G. S., 309
 Brett, Hon. R. G., 96
 Bretz, J. H., 64
 Bretz, J. P., 122
 Breul, K., 48
 Breurs, J. T., 207
 Brewer, Miss S. L., 125
 Brewer, T. H., 245
 Brewis, G. R., 260
 Brewis, N. T., 93
 Brewster, C. M., 276
 Brewster, W. T., 232
 Bribner, J., 308
 Bridge, Sir F., 148, 151
 Bridge, J. C., 89
 Bridge, W. G., 211

- Bridges, Miss E. F., 196
 Bridges, E. L., 142, 251
 Bridges, J. E., 256
 Bridges, J. W., 76, 245
 Bridges, W., 251
 Bridges, W. O., 142
 Bridgman, E. W., 15
 Bridgman, H. L., 6
 Bridgman, Miss O. L., 24
 Bridgman, P. W., 54
 Brierley, J. L., 259
 Brierley, W. B., 194, 283
 Briggs, C. C. D., 236
 Briggs, C. E., 68
 Briggs, G. M., 203
 Briggs, H., 94, 145
 Briggs, J. E., 34
 Briggs, Le B. R., 53, 56
 Briggs, T. H., 233
 Briggs, T. R., 123
 Briggs, W. D., 300
 Brigham, A. P., 114
 Brigham, C. S., 344
 Brigham, W. T., 119
 Bright, J. W., 14
 Brightman, A. C., 68
 Brightman, E. H., 33
 Brightman, E. S., 35
 Brightman, F. E., 258
 Brill, I. C., 99
 Brill, N. E., 234
 Brincker, J. A. H., 174
 Brinley, H. H., 49
 Bringhurst, J. H., 15
 Brink, R. W., 92
 Brinkworth, J. H., 167
 Briones, C., 324
 Brinley, J. R., 244
 Brisco, N. A., 120
 Briscoe, J. C., 172
 Briscoe, J. M., 253
 Briscoe, Mrs. R. L., 17
 Brison, Miss C. T., 12
 Bristol, C. L., 236
 Bristol, G. P., 122
 Bristow, H. G., 286
 Britton, Miss E. G., 244
 Britton, N. L., 244
 Brittain, W. G., 163
 Broad, C. D., 284
 Broad, H. H., 145
 Broadbent, Sir J., 173
 Broadfoot, R. C., 71
 Broadhurst, Miss J., 234
 Broadus, E. K., 97
 Broady, J. H., 141
 Brochu, M. D., 278
 Brock, R. W., 322
 Brockbank, E. M., 207
 Brockett, P., 331, 334
 Brockwell, C. A. B., 219
 Broderick, E. M., 303
 Brodetsky, S., 39
 Broder, A. G., 23
 Brodie, J. W., 94
 Brodie, R. H., 183
 Brodsley, G., 208
 Broedel, M., 15
 Brokaw, W. H., 142
 Bromberg, P., 225
 Bromhead, C. E. N., 182
 Bromley, L., 167, 168
 Bromwich, T. J. F. A., 47, 50, 192
 Bronfenbrenner, J., 55
 Bronson, H. L., 113
 Bronson, W. C., 275
 Brook, G. B., 294
 Brook, R., 257
 Brook, R. W., 322
 Brooke, A. E., 47
 Brooke, A. M., 30
 Brooke, C. F. T., 228
 Brooke, G. C., 188
 Brooke, Z. N., 49
 Brooke-Smith, Commr. L. A., 180
 Brookings, R. S., 287
 Brooks, A., 275
 Brooks, A. E. G., 209
 Brooks, A. H., 329
 Brooks, C., 76
 Brooks, F., 38
 Brooks, F. T., 49
 Brooks, G. C., 178
 Brooks, H., 237
 Brooks, Miss L. M., 174
 Brooks, M., 318
 Brooks, N. C., 318, 320
 Brooks, S. C., 41
 Brooks, S. D., 245
 Brooks, W. T., 256
 Brosnan, A. P., 324
 Brough, R., 104
 Broughton, L. N., 123
 Brown, A., 58
 Brown, A. C., 190
 Brown, A. E., 20
 Brown, Mrs. A. E., 20
 Brown, A. J., 251
 Brown, B., 240, 325
 Brown, C., 225
 Brown, C. E., 141, 266
 Brown, C. H., 107
 Brown, Miss C. M., 198
 Brown, C. R., 227
 Brown, C. W., 275
 Brown, D. J., 143
 Brown, D. J. A., 59
 Brown, E., 219
 Brown, E. B., 213
 Brown, E. E., 236
 Brown, E. V. L., 319
 Brown, E. W., 228
 Brown, F. L., 138
 Brown, G. B., 91
 Brown, G. D., 238
 Brown, H., 179
 Brown, H. C., 300
 Brown, H. S., 71
 Brown, Miss H. R., 201
 Brown, J., 312
 Brown, J. C., 45, 231
 Brown, J. E., 76
 Brown, J. G., 300, 313
 Brown, J. H., 287
 Brown, J. J. G., 93
 Brown, J. M., 340
 Brown, J. McK., 198
 Brown, J. R., 262, 340
 Brown, K. J., 61
 Brown, Miss M. E., 142
 Brown, Miss M. L., 336
 Brown, M. S., 236
 Brown, O. E., 225
 Brown, O. W., 30
 Brown, P. M., 272
 Brown, R. C., 286
 Brown, R. C. E., 236
 Brown, R. E., 237
 Brown, R. K., 168
 Brown, R. M., 105
 Brown, R. N. R., 293
 Brown, Miss R. W., 196
 Brown, S. A., 237
 Brown, S. C., 332
 Brown, S. W., 77
 Brown, T., 107
 Brown, T. B., 325
 Brown, T. G., 207
 Brown, T. H., 275
 Brown, T. J., 4
 Brown, T. R., 15
 Brown, W., 2, 24, 86, 152, 157
 Brown, W. A., 227, 239
 Brown, W. L., 166
 Brown, W. T., 311
 Browne, A. W., 122, 124
 Browne, E. G., 48
 Browne, H., 85
 Browne, P. G., 34
 Brownell, H., 143
 Browning, A., 105
 Browning, C. C., 197
 Browning, C. H., 172, 173
 Browning, P. E., 228
 Browne, J. S., 242
 Browns, H. T., 184
 Bruce, A. N., 92
 Bruce, H., 10
 Bruce, H. A., 310
 Bruce, H. L., 23
 Bruce, R. E., 33, 34, 35
 Bruce, W., 314
 Bruce, Major-General Sir D., 175
 Bruce, W. I., 170, 174
 Bruchési, His Grace Mgr. P., 220
 Bruchési, P. L. N., 277
 Bruening, E. H., 250
 Brues, C. T., 54
 Bruhl, P., 43
 Bruckmiller, F. W., 137
 Brumley, O. V., 77
 Brummer, N. J., 304
 Brunel, R. F., 40
 Bruner, L., 142
 Bruner, W. E., 68
 Bruns, F., 201
 Brunt, Capt. D., 180
 Brush, E. N., 16
 Brush, H. R., 110
 Bryan, A. W., 121
 Bryan, E. B., 114
 Bryan, G. H., 19
 Bryan, J. W., 17
 Bryan, O. N., 225
 Bryan, W. A., 225
 Bryan, W. B., 339
 Bryan, W. L., 30
 Bryans, W. R., 236
 Bryant, H., 17
 Bryant, H. S., 332
 Bryant, R., 163
 Bryant, R. C., 229
 Bryant, V. C., 25
 Bryant, W. W., 180
 Bryce, T. H., 105
 Bryden, Miss C. T., 277
 Bryne, W. A., 103
 Bryson, C. W., 196, 197
 Bryson, F. R., 131, 225
 Bryson-Delavan, D., 242
 Bubb, F. W., 288
 Bueta, E., 24
 Buchanan, H. R., 106
 Buchanan, Miss G. V., 214, 215
 Buchanan, J. G., 270
 Buchanan, J. H., 185
 Buchanan, J. J., 269
 Buchanan, Miss M., 175
 Buchanan, M. A., 309
 Buchanan, R. J. McL., 145
 Buchheim, Miss E. S., 157
 Buchner, E. F., 14
 Buck, C. D., 63
 Buck, E. C., 76
 Buck, Sir E. H., 161
 Buck, G., 271
 Buck, O. M., 80
 Buck, P. C., 83
 Buck, P. M., 142, 143
 Buck, T., 24
 Buckenridge, J. M., 224
 Buckingham, B. R., 318
 Buckingham, D. E., 325
 Buckingham, F., 207
 Buckingham, Harriet D., 56
 Buckland, W. W., 46, 47
 Buckley, A. F., 113
 Buckley, Miss J., 66
 Buckley, J. P., 207
 Bucklin, H. S., 275
 Buckman, H. O., 124
 Buckmaster, G. A., 39, 158
 Bucknall, C., 38
 Budd, J. W., 148
 Budden, L. B., 144
 Budge, E. A. W., 178
 Budge, Miss J. M., 111
 Budington, R. A., 249
 Buehr, K. A., 66
 Buell, C. K., 42
 Buell, M. D., 34, 35
 Buffington, A. H., 341
 Buffum, D. L., 272
 Buist, R. C., 284
 Bulkeley, G. S., 303
 Bull, C. G., 15
 Bull, R. J., 213
 Bullard, H. H., 15
 Bullitt, J. B., 61
 Bullock, C. J., 53
 Bullock, D. S., 202
 Bullock, F., 177
 Bullock, T. T., 141
 Bullock, W., 150, 169
 Bunch, Miss M., 319
 Bunker, S. W., 128
 Bunting, A. E., 141
 Bunting, C. H., 203
 Bunting, T. G., 220
 Bunts, F. E., 68
 Burch, L. H., 225
 Burchard, E. F., 329
 Burekhalter, T. W., 268
 Burehnall, J. L., 89
 Burd, J. S., 24
 Burden, H. P., 211
 Burdick, W. L., 136
 Burdon, E. J., 169
 Burfield, S. T., 145
 Burford, C. E., 286
 Burge, W. E., 317
 Burgess, A. H., 207, 344
 Burgess, C. S., 97
 Burgess, E. W., 64
 Burgess, Miss J., 99
 Burgess, W. L., 284
 Burgess, W. T., 126
 Burget, G. E., 99
 Burgh, W. G. D., 280
 Burghard, F. F., 172
 Burgis, E. C., 207
 Burke, D. J., 250
 Burke, F. S., 100
 Burke, R. E., 31
 Burkitt, F. C., 47
 Burleigh, Rt. Hon. Lord Balfour of, 284

INDEX TO NAMES

- Burleigh, N. G., 115
 Burley, G. W., 293
 Burlinghame, L. L., 300
 Burlison, W. L., 319
 Buris, F. B., 180
 Burne, R. H., 167
 Burnet, J., 284
 Burnett, C. F., 237
 Burnett-Hurst, A. R., 32
 Burney, C. F., 255, 257, 260
 Burnford, J. M., 172
 Burnham, G. H., 309
 Burnham, Miss J. M., 136
 Burnham, L. P., 125
 Burnham, W. H., 343
 Burns, C. E., 251
 Burns, D., 105, 107
 Burns, Miss M., 92
 Burns, T. C., 246
 Burnside, C. H., 235
 Burnstead, H. A., 228
 Burpee, L. J., 254
 Burr, E. G., 219
 Burr, G. L., 122
 Burr, H. S., 229
 Burr, W. W., 142
 Burrage, F. S., 134
 Burrage, L. M., 302
 Burrell, D. G., 107
 Burrett, F. A., 76
 Burritt, M. C., 124
 Burroughs, B., 241
 Burrows, E. N., 125
 Burrows, M. T., 288
 Burrows, R. M., 148, 156
 Burstall, F. W., 28
 Burstall, Miss S. A., 208
 Burt, A. L., 97
 Burt, E. A., 288, 289
 Burt, F. P., 206
 Burt, J. C., 269
 Burt, P., 216
 Burton, E. D., 62, 64, 65
 Burton, E. F., 309, 312
 Burton, H. E., 115
 Burton, Marion L., 216
 Burton, W. A., 138
 Burton-Opitz, R., 234
 Burwell, Cora G., 262
 Bury, J. B., 48
 Bush, A. D., 110
 Bush, J. P., 39
 Bush, S. H., 120
 Bush, W. T., 234
 Bushman, L. B., 251
 Bushnell, D. I. jr., 332
 Busk, Sir E. H., 147, 149
 Bussey, Gertrude C., 18
 Butin, R., 323
 Butkiewicz, J. K., 326
 Butler, A. J., 259
 Butler, A. S., 284
 Butler, C. P., 51
 Butler, Sir G. G. G., 49
 Butler, H. C., 272
 Butler, H. E., 151, 155
 Butler, H. L., 136, 138
 Butler, J. R., 85
 Butler, J. R. M., 50
 Butler, N., 65
 Butler, N. M., 232
 Butler, Hon. Sir S. H., 7
 Butler, T., 305
 Butterfield, E. C., 277
 Butterfield, T. E., 27
 Butterfield, W. J. A., 193
 Butterworth, J. E., 143
 Butterworth, J. J., 207
 Buwalda, J. P., 228
 Buxton, L. H., 245
 Byers, Sir J., 22
 Byfield, A. H., 121
 Byles, J. E., 180
 Byrne, E. H., 201
 Byrne, J., 6
 Byrnes, C. M., 15
 Cable, J. R., 245
 Cabot, R. C., 54
 Cadman, Sir J., 28
 Cadwalder, W. B., 266
 Cady, Miss H. M., 297
 Cady, H. P., 137
 Cady, W. G., 216
 Caesar, L., 111
 Cahen, E., 166
 Cahill, W. V., 138
 Cain, W., 61
 Cairns, W. B., 201
 Cairns, W. D., 249
 Cairns, W. H., 107
 Cajigas, T., 326
 Cajori, F., 23
 Calan, J. P., 88
 Calder, C. C., 295
 Calder, G., 105
 Calder, W., 213
 Calder, W. M., 206, 207
 Calderwood, E. S., 34
 Caldwell, F. C., 77
 Caldwell, H. W., 142
 Caldwell, O. W., 232
 Caldwell, R., 225
 Caldwell, W., 218
 Caldwell, W. E., 235, 237
 Caleb, C. C., 131
 Cale-Matthews, G. F., 29
 Caley, D. R., 312
 Calhoun, G. M., 23
 Calhoun, Miss H. A., 121
 Calkins, G. N., 234
 Callan, J. G., 202
 Callaway, A. E., 213
 Callendar, H. L., 165
 Calman, W. T., 178, 192
 Calvert, J., 166
 Calvin, J. W., 143
 Camboge, R. H., 306
 Cambridge, the Marquis, 189
 Camae, C. N. B., 235
 Cameron, A., 102
 Cameron, D., 33
 Cameron, E. H., 228, 318
 Cameron, G. S., 219
 Cameron, H. C., 167, 168
 Cameron, I. H., 310
 Cameron, J., 113
 Cameron, J. F., 49
 Cameron, J. G., 107
 Cameron, J. H., 309
 Cameron, J. K., 95
 Cameron, M., 105
 Cameron, S. S., 213
 Cammack, A., 276
 Camoens, G. J., 156
 Camp, B. H., 216
 Campagnac, E. T., 144
 Campbell, A., 279, 290, 291
 Campbell, A. J., 50
 Campbell, C., 92, 207
 Campbell, C. D., 30
 Campbell, C. M., 15
 Campbell, D. H., 300
 Campbell, F. E. A., 2
 Campbell, F. H., 214, 215
 Campbell, G. H., 313
 Campbell, G. M., 113
 Campbell, J. A., 102, 312
 Campbell, J. B., 195
 Campbell, J. E., 192, 257, 260
 Campbell, J. McL., 260
 Campbell, J. N., 102
 Campbell, J. R., 285
 Campbell, K. B., 197
 Campbell, Mrs. K. W., 156
 Campbell, M. C., 31
 Campbell, M. R., 329
 Campbell, O. H., 288
 Campbell, O. J., 201
 Campbell, P. L., 98
 Campbell, P. S., 313
 Campbell, R., 92
 Campbell, S. G., 48, 50
 Campbell, T., 3
 Campbell, W., 235
 Campbell, W. W., 26, 223
 Campion, G. G., 207
 Canby, H. S., 228
 Candy, A. L., 143
 Candy, H., 169
 Canfield, G. F., 235
 Cann, Miss J. Y., 247
 Cannan, E., 151, 162
 Canney, M. A., 207
 Cannilleri, F., 321
 Canning, H., 83
 Cannon, C. C., 336
 Cannon, W. B., 54
 Cannon, W. D., 336
 Cano, B. S., 92
 Canon, Miss H., 125
 Canter, H. V., 317
 Canterbury, Archbishop of, 342
 Canti, R. G., 166
 Cantlie, Sir J., 170, 176
 Cantrill, T. C., 182
 Capen, E. W., 117
 Caperton, H. A., 66
 Capper, D. S., 150, 157
 Capps, E., 272
 Cardwell, H., 207
 Carey, E., 143
 Carey, E. F. A., 217
 Carey, F. S., 144
 Carey, L. R., 274
 Cargill, L. V., 172
 Carlier, F. W. W., 29
 Carlill, H., 172
 Carlring, R., 172
 Carlisle, R. J., 237
 Carlson, A. J., 64
 Carlyle, A. J., 255, 257
 Carlyle, E. L., 258
 Carlyle, E. J., 98
 Carmalt, Mrs. A. M., 263
 Carman, A. P., 318
 Carman, J. E., 75, 77
 Carment, D., 306
 Carmichael, J., 180
 Carmichael, R. B., 326
 Carmichael, R. D., 318
 Carnahan, D. H., 317
 Carney, Miss M., 233
 Carnoy, A. J., 23
 Carpenter, C. D., 234
 Carpenter, C. M., 124
 Carpenter, F. B., 242
 Carpenter, F. W., 116
 Carpenter, G. H., 86
 Carpenter, H. C. H., 152, 165
 Carpenter, H. V., 276
 Carpenter, P. S., 246
 Carpenter, R., 40, 141
 Carpenter, R. W., 142
 Carpenter, S. C., 51
 Carpenter, W. H., 232
 Carr, A. W., 156
 Carr, Miss E. P., 298
 Carr, E. T. S., 50
 Carr, H., 309, 312
 Carr, H. A., 63
 Can, H. W., 151
 Carr, J. W., 175, 248
 Carr, S. E., 190
 Carre, H. B., 225
 Carrigan, T. C., 328
 Carrington, H. De W., 247
 Carritt, E. F., 257
 Carroll, D. D., 61
 Carroll, H. H., 211
 Carroll, M., 325, 337
 Carroll, W., 208
 Carruth, W. H., 290
 Carruth, W. M., 71
 Carruthers, A., 309
 Carruthers, C., 97
 Carruthers, D., 187
 Carruthers, R. G., 182
 Carse, G. A., 92
 Carslaw, H. S., 305
 Carson, H. H., 252
 Carson, H. L., 266
 Carter, —, 272
 Carter, A. T., 269
 Carter, C. R., 258
 Carter, E. P., 68
 Carter, H. F., 147
 Carter, H. G., 295
 Carter, H. H., 249
 Carter, H. S., 235
 Carter, J., 255
 Carter, R. E., 138
 Carter, S. R., 28
 Carter, T. A., 66
 Carter, W. S., 101
 Cartmell, B. E., 80
 Cartwright, C. L., 204
 Cartwright, M. A., 22
 Caruana, G., 321
 Carver, G. W., 316
 Carver, T. N., 53
 Carver, W. B., 123
 Carver, W. O., 199
 Cary, E. R., 315
 Cary, F., 323
 Cary, M., 151, 155, 160
 Casamagor, L., 234
 Casartelli, L. C., 206
 Casanowicz, I. M., 331
 Case, C. M., 120
 Case, E., 70
 Case, G. W., 268
 Case, H. C., 6
 Case, R. H., 144
 Case, S. J., 64
 Case, T., 259
 Casey, R. D., 218
 Cassar, S., 321
 Casselman, E. J., 336
 Cassilly, F. B., 250
 Casteel, F. A., 323
 Castellani, A., 176

- Castle, C. F., 63
 Castro, Miss M., 40
 Castle, D. E., 36
 Castle, W. E., 53
 Castlehow, S., 37
 Castleman, F. R., 77
 Casto, F. M., 68
 Caswell, W. C. B., 311
 Cathcart, A. M., 301
 Cathcart, E. P., 169
 Cathcart, G. L., 82
 Cato, F. J., 215
 Caton, R., 146
 Caudell, A. N., 331
 Canghai, R. A., 303
 Caunt, G. W., 89
 Causey, J. G., 324
 Cavanaugh—Mainwaring,
 W. R., 4
 Cavanaugh, G. W., 122,
 124
 Cavanaugh, J. A., 320
 Cave, G. H., 295
 Cave, T. W., 344
 Caverno, Miss J. H.,
 247
 Cayley, J., 90
 Caywood, T. G., 121
 Cayzer, A., 264
 Cecil, Rt. Hon. Lord
 H. R. H., 260
 Cecil, Rt. Hon. Lord
 R., 28
 Cell, G. C., 34, 35
 Cellier, J. S., 126
 Center, H. B., 34, 35
 Cerf, B., 201
 Chace, A. B., 275
 Chace, Miss E. P., 303
 Chaacko, P. C., 205
 Chadbourne, Ava, 253
 Chaddock, C. G., 286
 Chaddock, R. E., 233
 Chaddsey, C. E., 317
 Chadwick, H. C., 145
 Chadwick, H. M., 48
 Chafee, C., 55
 Chaffee, E. L., 54, 55
 Chagnon, P., 222
 Chakmakjian, H. H.,
 211
 Chakravarty, B. K., 44
 Chaldecott, J. H., 174
 Chalfont, F. C., 276
 Challenger, F., 28
 Chalmers, A. J., 127
 Chalmers, G., 160
 Chalmers, S. D., 164
 Chaloupka, E., 251
 Chambers, C. D., 29
 Chambers, G., 310
 Chambers, J. 173
 Chambers, P. F., 234
 Chambers, R. F., 275
 Chambers, R. W., 152,
 154, 155, 156
 Chambers, T. R., 17
 Chambers, W. G., 268,
 269
 Chamberlain, G. R., 125
 Chamberlain, R. T., 63
 Chamberlain, T. C., 63
 Chamberlin, D. S., 27
 Chamberlin, E. M., 34,
 35
 Chambliss, C. E., 337
 Chamot, E. M., 122
 Champenowne, F. G.,
 260
 Champion, C. G., 188
 Champaloup, S. T., 87
 Chand, H., 10
 Chand, L. H., 132
 Chand, L. M., 132
 Chandavarkar, Sir N.
 G., 31
 Chandee, G. C., 302
 Chandler, A. R., 76
 Chandler, B. A., 125
 Chandler, E. F., 110
 Chandler, H. A. E., 233
 Chandler, S. E., 179
 Chandler, W. H., 124
 Channing, E., 53, 336
 Chant, C. A., 309, 314
 Chapaïs, Hon. T., 278
 Chapelow, H. C., 344
 Chapin, C. W., 336
 Chapin, F. S., 247
 Chapin, G. S., 76
 Chapin, H. C., 90
 Chapin, W. H., 249
 Chapman, Miss, 304
 Chapman, C. E., 23
 Chapman, D. L., 260
 Chapman, F., 215
 Chapman, F. M., 240
 Chapman, H., 169
 Chapman, H. G., 306
 Chapman, H. H., 229
 Chapman, J. B., 183
 Chapman, J. C., 69
 Chapman, L. B., 27
 Chapman, O. C., 183
 Chapman, P. A., 273
 Chapman, Miss P. M.,
 100
 Chapman, R. W., 4, 5
 Chapman, S., 50, 206
 Chappell, Miss B., 135
 Chapple, C. R., 3
 Chapple, H., 168
 Charbonneau, N., 220
 Charles, Miss G. M., 137
 Charles, R., 157
 Charles, R. F., 160
 Charles, Sir R. H., 176
 Charles, R. L., 27
 Charlsworth, F. K., 207
 Charlton, H. B., 206
 Charrington, J., 51
 Charteris, F. J., 284
 Charters, R. H., 126
 Charter, E., 220, 222,
 278
 Charton, P., 221
 Chase, C. H., 210
 Chase, C. K., 71
 Chase, C. S., 121
 Chase, G. A., 49
 Chase, G. D., 253
 Chase, G. H., 53
 Chase, H. W., 60
 Chase, Miss M. A., 298
 Chase, O. J., jr., 235
 Chase, W., 141
 Chase, W. J., 201
 Chatburn, G. R., 141
 Chattaway, F. D., 258,
 261
 Chatterjee, J., 263
 Chatterji, B. R., 10
 Chatterji, P., 45
 Chatterji, S. C., 60
 Chaudhary, B. K., 263
 Chaudhary, H. C. R.,
 263
 Chaundy, T. W., 169
 Chauvet, F., 320
 Chauvire, R., 85
 Cheadle, J. B., 246
 Cheater, T. J., 180
 Cheatle, A. H., 172
 Cheatle, Sir G. L., 172
 Chedsey, W. R., 303
 Cheever, D., 54
 Cheever, Miss L. S., 247
 Chelladurai, S., 205
 Chend, A., 280
 Chenery, W. E., 211
 Chenery, W. H., 287
 Cheney, C. O., 243
 Cheney, W. F., 300
 Cheny, F. H., 25
 Cherry, W. C., 225
 Cheshire, F. J., 164, 165,
 190
 Cheshire G. C., 257,
 261
 Chesnut, W. C., 17
 Chester, W. M., 114
 Chew, S. C., 41
 Cheydlear, F. G., 201
 Chienc, G. L., 93
 Child, A. T., 308
 Child, C. D., 114, 123
 Child, C. M., 63
 Childs, F. L., 115
 Childs, H. G., 31
 Childs, W. M., 280
 Chillman, E. F., 315
 Chilton, C., 67
 Chilton, C. A., 38
 Chinmayanadam, T.
 K., 43, 296
 Chipman, W. W., 219
 Chisolm, G. G., 92
 Chisolm, M., 113
 Chisolm, W. R., 107
 Chittenden, 272
 Chittenden, E. W., 120
 Chittenden, R. H., 227,
 229
 Chivers, A. H., 115
 Choate, Miss H. A., 247
 Cholmondeley, F. G.,
 258
 Cholmeley, R. J., 37
 Choquette, P., 278
 Chowdhury, R. N., 8
 Chowins, C. E., 141
 Chowla, G. S., 131
 Choyce, C. C., 171
 Chree, C., 180, 181
 Chrisman, O., 12
 Christensen, O. E., 110
 Christenson, W. E., 217
 Christian, H. A., 54
 Christie, A. G., 15
 Christie, B. W., 142,
 251
 Christie, C. V., 219
 Christie, R., 270
 Christie, W. A. K., 45
 Christy, J. S., 270
 Chryslor, M. A., 253
 Chubb, C. St. J., jr., 75
 Chubb, E. W., 11, 12
 Chubb, H. B., 137
 Chuckerburty, J. N.,
 292
 Church, A. H., 257
 Church, J. E., 281
 Churchill, A. V., 247
 Churchill, E. F., 156
 Churchill, G., 9
 Churchill, G. M., 325
 Churchill, G. W., 104
 Churchill, Marion, 74
 Churchman, J. W., 229
 Churchman, P. H., 343
 Chute, A. L., 211
 Chute, Miss H. H., 198
 Cillie, G. G., 304
 Cimino-King, Mrs. M.,
 157
 Cippico, A., 151, 155
 Clack, B. W., 159
 Clapham, E. W., 169
 Clapham, J. H., 49
 Clapp, Mrs. A., 143
 Clapp, E. J., 237
 Clapp, F. L., 201
 Clapp, G. H., 268
 Clapp, P. G., 120
 Clapp, R. G., 143
 Clapperton, A. F., 104
 Claran, Pt. R., 13
 Clark, A. B., 299
 Clark, A. C., 256, 259
 339
 Clark, A. F. B., 322
 Clark, A. H., 320, 331
 Clark, A. J., 151, 155,
 168
 Clark, A. W., 104
 Clark, B. L., 24
 Clark, C. E., 229
 Clark, D., 107
 Clark, D. T., 341
 Clark, E., 64
 Clark, E. F., 115
 Clark, E. M., 319
 Clark, E. S., 216
 Clark, E. V., 4
 Clark, F., 58
 Clark, G., 136
 Clark, G. F., 315, 326
 Clark, G. L., 196
 Clark, G. N., 258
 Clark, G. T., 299, 301
 Clark, H., 249
 Clark, H. A., 99
 Clark, J., 58
 Clark, J. B., 234, 235
 Clark, J. C., 198, 300
 Clark, J. M., 63
 Clark, J. T., 23
 Clark, Miss L. S., 247
 Clark, L. T., 197
 Clark, L. W., 316
 Clark, P. F., 203
 Clark, R. C., 99
 Clark, R. H., 322
 Clark, S. H., 63
 Clark, T. A., 317
 Clark, R. S., 271
 Clark, W., 266, 340
 Clark, W. E., 63, 192,
 280
 Clark, B. R. P., 301
 Clarke, A. C., 264
 Clarke, B., 21
 Clarke, C. C., 227
 Clarke, C. K., 310
 Clarke, C. S., 179
 Clarke, Miss E., 217
 Clarke, F., 163
 Clarke, F. W., 325, 331
 Clarke, Miss H. M., 137
 Clarke, J., 2
 Clarke, J. M., 6, 315
 Clarke, W. C., 235
 Clarke, W. T., 24
 Clarkson, R., 66
 Clausen, R. E., 25
 Clawson, B. J., 110
 Clawson, W. H., 309
 Claxton, T. F., 119
 Clay, A. T., 227, 241
 Clay, J., 89
 Clayden, A. W., 100
 Clayter, F. C., 268
 Clayton, A. E., 209

INDEX TO NAMES

- Clayton, F. H. A., 89
 Clayton, W. F., 11
 Clayton-Greene, W. H., 173, 174
 Claytor, T. A., 326
 Cleary, Lt.-Col., A. W., 276
 Clegg, J. G., 207
 Cleland, H. F., 341
 Cleland, J. B., 306
 Clemens, C. E., 69
 Clement, F. M., 322
 Clephane, W. C., 326
 Clery, A. E., 85
 Cleveland, A. A., 276
 Cleveland, F. A., 33
 Clibbens, D. H., 157
 Clifford, F. W., 190
 Clifford, H. E., 55
 Clifford, W., 240
 Clifton, J. L., 77
 Clinch, G., 184
 Clinton, M., 42
 Clinton, W. C., 155
 Clogg, H. S., 170
 Cloran, T., 99
 Close, R. W., 57
 Cloud, C. H., 287
 Cloudman, H. C., 329
 Clough, P. W., 15
 Clough, Miss B. A., 52
 Clover, M., 52
 Clucas, R. J. M., 3, 4
 Cniver, E. H., 126
 Clymer, C. E., 246
 Clyne, S. T. S., 215
 Coakley, C. G., 234
 Coar, J. F., 97
 Coates, C. V., 159
 Coates, J. E., 283
 Cobb, C., 61
 Cobb, C. W., 10
 Cobb, F. MacM., 68
 Cobb, Miss H. R., 247
 Cobb, J. W., 140
 Cobb, P. S., 27
 Coble, A. B., 317
 Cochran, 272
 Cochran, G. I., 196
 Cochran, Miss H. F., 249
 Cochran, R. E., 143
 Cockayne, E. A., 173
 Cockburn, Hon. Sir J., 162
 Cockburn, J., 83
 Coekburn, J. R., 310
 Cockerell, S. C., 51
 Coddington, E. F., 77
 Coddington, O., 188
 Coe, G. A., 239
 Coe, W. B., 17
 Coe, W. R., 223, 230
 Coelho, M. N., 210
 Coffen, T. H., 99
 Coffey, D. G., 84
 Coffey, D. J., 84
 Coffey, J. S., 76
 Coffey, R. C., 99
 Coffey, W. C., 319
 Coffin, H. S., 239
 Coffin, H. W., 99
 Coghill, G. E., 137
 Cogshall, W. A., 30
 Cogswell, A. W., 113
 Cogswell, H., 198
 Cohen, A., 14
 Cohoe, B. A., 269
 Cohen, J. B., 140
 Cohen, L., 325
 Coit, J. B., 33, 35
 Coit, J. E., 24
 Coker, E. G., 150, 155
 Coker, F. W., 75
 Coker, W. C., 61
 Colahan, N. W., 103
 Colburn, Miss C. C., 65
 Colburn, F. W., 34
 Colby, C. C., 64
 Colby, C. W., 218
 Cole, A. C., 318
 Cole, A. D., 75
 Cole, C. N., 248, 249
 Cole, D. F., 141
 Cole, Fay C., 66
 Cole, F. J., 280
 Cole, F. N., 233, 243
 Cole, G. A. J., 86
 Cole, G. D. H., 258
 Cole, H. N., 68
 Cole, L. G., 123
 Cole, L. J., 200
 Cole, M. H. V., 7
 Cole, R. H., 174
 Cole, S. W., 47
 Cole, W. M., 55
 Cole, W. R., 224
 Coleman, A. P., 254
 Coleman, A. P., 309
 Coleman, F., 175
 Coleman, R. C., 121
 Coleman, W., 237
 Coley, W. B., 123
 Colle, Miss F. A., 144
 Collie, J. N., 150, 155
 Collier, Miss A. B., 52
 Collier, C. S., 326
 Collier, J. S., 168
 Collier, T. F., 275
 Collier, Hon. W. M., 324
 Collinge, W. E., 284
 Collings, H. T., 301
 Collings, M. P., 171
 Collingwood, B. J., 85
 Collingwood, G. H., 125
 Collingwood, R. G., 260
 Collins, A. J., 177
 Collins, C. W. jr., 334
 Collins, E. T., 170
 Collins, H. O., 121, 193
 Collins, J. R., 314
 Collins, V. L., 272
 Collins, Sir W. J., 148
 Collison, R. C., 104
 Collinson, W. E., 144
 Collip, J. B., 97
 Coltitz, H., 14
 Colman, W. G., 174
 Coln, F., 327
 Colomb, Miss R., 28
 Colon, E. D., 282
 Colpitts, E. C., 276
 Colvin, Caroline, 253
 Colvin, S. S., 275
 Colwell, H. S., 229
 Colyer, J. F., 170
 Comber, H. C., 49
 Commons, J. R., 200
 Compton, K. T., 274
 Comrie, J. D., 93
 Comstock, Mrs. A. B., 124
 Comstock, A. P., 297
 Comstock, F. M., 70
 Comstock, Miss G., 197
 Comstock, G. C., 200
 Comstock, J. H., 124
 Compton, Miss N. J., 143
 Conant, E. B., 288
 Conant, J. B., 54
 Condon, J., 86
 Cone, S. M., 16
 Congdon, E. D., 300
 Conger, J. L., 102
 Conklin, Miss C., 143
 Conklin, C. B., 326
 Conklin, E. G., 274
 Conklin, E. S., 99
 Conklin, Miss J., 31
 Conlan, P. T., 251
 Conley, C. H., 318
 Conley, Miss B., 201
 Conn, H. J., 104
 Connah, J., 180
 Connal, B. M., 140
 Connaught, H.R.H the Duke of, 185, 187
 Connell, A., 293
 Connell, J., 105
 Connell Miss M. A., 336
 Conner, C. M., 25
 Conner, L. A., 123
 Conner, S. L., 211
 Connolly, J. P., 279
 Conran, M. J., 78
 Conrow, 272
 Cons, L., 273
 Conser, C. C., 16
 Constant, F. H., 274
 Constant, J., 222
 Constantini, C. L., 326
 Converse, Maj. G. L., 75
 Conway, A. W., 84, 85
 Conway, Miss G., 208
 Conway, R. S., 296
 Conway, Sir W. M., 187
 Conwell, W. L., 125
 Cook, A. B., 48, 50, 52
 Cook, A. S., 227
 Cook, C. W., 197
 Cook, Miss E. C., 233
 Cook, E. F., 265
 Cook, Miss E. P., 247
 Cook, E. R., 184
 Cook, J., 29
 Cook, J. E., 288
 Cook, Miss M. M., 247
 Cook, O. F., 331
 Cook, R. J., 229
 Cook, S. A., 49
 Cook, S. J., 217
 Cook, S. R., 259
 Cook, T., 207
 Cook, W. G. H., 149
 Cook, W. W., 235
 Cooke, C. M., 119
 Cooke, C. P., 177
 Cooke, G. A., 255, 256, 259
 Cooke, J. D., 277
 Cooke, L. H., 165, 274
 Cooke, L. H., 165
 Cooke, W. C., 78
 Cooke, W. E., 306, 307
 Cooke, W. P., 54
 Cooke, W. T., 4
 Cookson, C., 258
 Cool, C. D., 201
 Cooley, Miss A. M., 233
 Cooley, R. W., 110
 Coolidge, A., 54
 Coolidge, A. C., 53, 56
 Coolidge, E. D., 320
 Coolidge, J. L., 53
 Coolidge, W. A. B., 258
 Coombs, F. E., 310
 Coon, A. C., 217
 Coons, J. J., 77
 Coony, J. P., 286
 Cooper, C. F., 49, 52
 Cooper, C. M., 301
 Cooper, C. P., 236
 Cooper, G., 175
 Cooper, H. B., 260
 Cooper, H. E., 270
 Cooper, J., 106
 Cooper, J. E., 300
 Cooper, J. M., 107
 Cooper, L., 122
 Cooper, L. A., 76
 Cooper, The Hon. Sir P. A., 37
 Cooper, T. P., 140
 Cooper, W. A., 299
 Cooper, W. H., 12
 Cooper, W. L., 38
 Cooper, Miss Z. M., 121
 Coopland, G. W., 144, 145
 Coote, P., 278
 Cope, R. P., 277
 Cope, V. Z., 173
 Cope, W. H., 30
 Copeland, C. M., 11
 Copeland, C. T., 54
 Copeland, E. P., 326
 Copeland M. T., 55
 Copeland, W. F., 12
 Copeman, S. M., 172
 Coppersmith, C. W., 70
 Copping, E. J., 326
 Corbett, 46
 Corbett, L. S., 253
 Corbey, W. J., 250
 Corbin, A. L., 229
 Corbin, Miss A. L., 136
 Corbin, C. E., 289
 Corbin, F., 217
 Corbin, H. H., 4
 Corbitt, H. B., 336
 Corby, H., 78
 Coreoran, T., 85
 Cordell, H. W., 277
 Cordley, A. B., 79
 Core, D. E., 207
 Corfield, Major C., 38
 Corkins, Miss E. D., 75
 Corless, R., 180
 Corlett, W. T., 68
 Corley, A. H., 228
 Cormack, J. D., 105
 Cornejo, S., 34, 35
 Cornell, Miss G. A., 233
 Cornelson, C. A., 276
 Corner, G. W., 15
 Cornford, F. M., 50
 Cornish, G. A., 310
 Cornwall, E. W., 212
 Corp, C. I., 202
 Cort, W. W., 15
 Cortwright, R. O., 281
 Corwin, B., 238
 Corwin, E. S., 272
 Corwin, R. N., 227
 Cory, C. B., 67
 Cory, C. E., 287
 Cory, C. L., 25
 Cory, G. E., 109
 Cory, H. E., 23
 Coggrave, F. H., 309
 Coss, J. J., 234
 Cossette, M. N., 135
 Cossette, M. R., 135
 Costain, J. H., 28
 Cott, G. F., 42
 Cotter, G. de P., 45
 Cotter, J. R., 83
 Cotton, A., 16
 Cotton, C. A., 340
 Cottrell, H. V., 76
 Couch, Miss I. C., 297
 Conghlin, W. T., 286
 Coulson, J. C., 268
 Coultas, H. W., 29

- Coulter, C. W., 69
 Coulter, J. L., 223
 Coulter, J. M., 63
 Coultrap, F. S., 12
 Councilman, W. T., 54
 Courady, A. E., 165
 Courtney, E. O., 165
 Courtney, W. L., 258
 Courville, H. L., 222
 Cousins, J. A., 210
 Cousineau, P., 278
 Cousineau, P., 221
 Cousins, C. E., 120
 Coutinho, J. de S., 325
 Covert, C. C., 329
 Coville, F. V., 331
 Covington, H. F., 272
 Covington, Hon. J. H., 324
 Cowan, H., 1, 2
 Cowan, J. F., 300
 Cowan, J. M., 106
 Coward, H., 293
 Cowden, C. N., 225
 Cowdery, K. L., 249
 Cowdary, The Rt. Hon. Viscount, 1
 Cowell, A. W., 302
 Cowell, P. H., 181
 Cowen, T. P., 145
 Cowie, R. H., 2
 Cowin, R. B., 61
 Cowell, S. F., 167
 Cowles, H. C., 63
 Cowles, W., 9
 Cowley, 272
 Cowley, A. E., 253
 Cox, A., 188
 Cox, A. H., 60
 Cox, Miss C. M., 289
 Cox, P., 102
 Coxen, J. R., 135
 Coy, G. J., 14
 Coy, H., 101
 Craig, C. F., 123
 Craig, E. S., 255, 257
 Craig, E. S., 259
 Craig, G. W., 197
 Craig, H., 120
 Craig, J., 83, 85, 86
 Craig, J. A., 22, 309
 Craig, M., 168
 Craig, W., 253
 Craigie, W. A., 256, 257
 Craigie, W. M., 287
 Crail, W. G., 92
 Cramp, W., 28
 Cramp, W. C., 237
 Crampton, H. E., 233, 240, 241
 Crampton, J., 4
 Crandall, C. S., 319
 Crandall, Miss R. K., 40
 Crane, A. B., 326
 Crane, E. J., 242
 Crane, J. A., 269
 Crane, J. W., 195
 Crane, Miss M. M., 336
 Cranfield, H. T., 305
 Cranny, Miss L., 251
 Cranston, J. A., 107
 Crapper, E. H., 293
 Craster, H. H. E., 258
 Crathorne, A. R., 318
 Cravens, J. W., 30
 Crawford, A. C., 300
 Crawford, C. C., 136
 Crawford, D. D., 145
 Crawford, H. J., 149, 310
 Crawford, J. R., 90, 228
 Crawford, J. T., 310
 Crawford, M., 196
 Crawford, M. B., 216
 Crawford, R. T., 23
 Crawfurd, R., 172
 Crawshaw, F. D., 200
 Crawshaw, W. H., 114
 Crawshaw, L. R., 271
 Creed, J. M., 50
 Creeden, J. B., 323
 Creelman, G. C., 111
 Creighton, J. E., 122
 Crenshaw, J. L., 41
 Cresson, W. P., 273
 Crewe, the Marquess of, 292
 Critchlow, F. L., 272
 Crichton, E. C., 58
 Crichton-Browne, Sir J., 185
 Crick, P. C. T., 49
 Crile, G. W., 68
 Criley, C. H., 197
 Crisfield, A., 334
 Crittenden, E. C., 339
 Crocheron, B. H., 24
 Crockett, P. C., 99
 Crocker, W., 63
 Crockett, J., 106
 Crockett, C. W., 315
 Crockett, S. S., 225
 Crockett, W. D., 302
 Croft, E. O., 140
 Croft, S. M., 334
 Crofton, W. M., 85
 Crofts, G. D., 42
 Crofts, J. E. V., 38
 Croissant, De W. C., 325
 Crokett, E. A., 54
 Croll, M. W., 273
 Crommelin, A. C. D., 180, 186
 Crompton, H., 151, 160
 Cronin, M., 85
 Cronshaw, B. G., 257
 Cronshaw, H. B., 103
 Crook, A. R., 298
 Crook, C. V., 183
 Crook, J., 9
 Crook, T., 179
 Crookes, Sir W., 190
 Croom, Sir J. H., 92
 Crosby, C. R., 124
 Crosby, D. J., 124
 Crosby, J. P., 34
 Crosby, T., jr., 275
 Crosby, W. H., 41
 Cross, A. C., 134
 Cross, C. N., 300
 Cross, F. R., 39
 Cross, G., 282
 Cross, H., 275
 Cross, I. B., 24
 Cross, L. J., 124
 Cross, T. P., 63
 Cross, W. F., 166
 Cross, W. L., 227
 Crosse, C., 231
 Crossley, A. W., 150, 157, 190
 Crow, J. W., 111
 Crow, J. W. S., 213
 Crowden, C. H., 12
 Crowe, S. J., 15
 Crowell, Miss A. C., 275
 Crowell, J. W., 283, 302
 Crowfoot, J. W., 127
 Crowley, C. F., 251
 Crowley, J. F., 323
 Crowley, E. M., 282
 Crowther, F. K., 29
 Crowther, K., 29
 Crozier, W. J., 64, 320
 Cru, J. N., 341
 Cruess, W. V., 24
 Cruickshank, A., 162, 165
 Cruickshank, H., 89
 Cruickshank, Brig.-Gen. E. A., 254
 Cruickshanks, G. S., 107
 Crumbine, S. J., 136, 137
 Crummer, L., 142
 Crummer, Le R., 251
 Crump, C. C., 80
 Crump, Miss L. M., 283
 Crump, R. S., 163
 Cruttwell, C. R. M. F., 258
 Cruzen, E. E., 17
 Crymble, P. T., 22
 Cubberley, E. P., 299
 Cudmore, A. M., 4
 Cudmore, S. A., 309
 Cuff, A., 293
 Culbreth, D. M. R., 17
 Cullen, C. E., 287
 Cullen, The Hon. Sir D. P., 305
 Cullen, R. T., 180
 Cullen, T. S., 14
 Culler, J. A., 78
 Culley, D. E., 270
 Cullis, C. E., 43
 Cullis, C. G., 165
 Cullis, Miss W., 175
 Cullis, Miss W. C., 152
 Culverwell, E. P., 82
 Cumberbatch, E. P., 166
 Cumbrae-Stewart, F. W. S., 37
 Cumings, E. R., 30
 Cummer, C. L., 68
 Cumming, A. C., 92
 Cumming, C. A., 120
 Cummings, 272
 Cummings, M. E., 25
 Cummings, Miss M. L., 99
 Cummins, H., 225
 Cummins, H. A., 78
 Cummins, Miss L. A., 198
 Cummins, W. E. A., 78
 Cundall, F., 128
 Cunliffe, J. W., 235
 Cuning, J., 175
 Cunningham, E., 50
 Cunningham, H. E., 317
 Cunningham, Miss H. E., 245
 Cunningham, J. D., 62
 Cunningham, J. T., 169
 Cunningham, O. J., 137
 Cunningham, Miss R. L., 24
 Cunningham, R. S., 15
 Cunningham, S. R., 246
 Cunningham, W. J., 55
 Cunningham, W. R., 183
 Cunnington, W. A., 166
 Curl, C. M., 253
 Curnock, W. E. M., 162
 Currotte, A., 278
 Curran, E. J., 137
 Curran, Miss M. B., 193
 Currelly, C. T., 309
 Currie, General Sir A., 218
 Currie, J., 96
 Currier, C. H., 275
 Curry, M. A., 113
 Curry, P. A., 42
 Curry, W. C., 225
 Curtis, C. C., 234
 Curtis, E., 83
 Curtis, E. N., 18
 Curtis, Miss F. R., 319
 Curtis, G. M., 225
 Curtis, H. D., 223
 Curtis, M. M., 68
 Curtis, N. C., 318
 Curtis, O. F., 125
 Curtis, R. E., 102
 Curtis, R. W., 124
 Curtis, W. A., 91
 Curtis, W. E., 293, 294
 Curtiss, C. F., 9
 Curts, P. H., 216
 Curzon, The Rt. Hon. Earl, 187
 Cuschieri, A., 321
 Cushing, D., 309, 312
 Cushing, Miss E. P., 247
 Cushing, H., 54
 Cushing, H. P., 68
 Cushing, Miss M. G., 297
 Cushman, A. S., 325
 Cushman, H. I., 210
 Cushman, P. A., 303
 Cushman, R. A., 338
 Cushny, A. R., 92
 Cutcher, J. B., 31
 Cuthbert, J. R., 32
 Cuthbertson, W., 108
 Cutler, Miss A. A., 247
 Cutler, D. W., 283
 Cutler, G. H., 97
 Cutler, J. E., 68
 Cutler, I. S., 141, 251
 Cutler, L. E., 300
 Cutting, S. W., 63
 Dabney, A. S., 225
 Dadina, F. M., 126
 Dadouisan, H. M., 116
 da Fano, C., 157
 Daggett, F. H., 61
 Daggett, S., 24
 Dagneau, C., 278
 Dahl, G., 229
 Dahlgren, B. E., 67
 Dahlgren, U., 274
 Dailey, G. F. N., 317
 Dains, F. B., 137
 Dakin, W. J., 264
 Dalby, W. E., 148, 151
 Dale, E. A., 309
 Dale, E. E., 245
 Dale, G. I., 287
 Dale, H. C., 134
 Dale, J. A., 218, 225
 Dale, J. B., 156
 Dale, J. D., 157
 Dale, N. C., 71
 Dales, J. S., 141
 Daley, Miss C. M., 120
 Dall, W. H., 119, 331
 Dallas, F., 322
 Dalton, A. T., 30
 Dalton, Sir C. N., 163
 Dalton, J. P., 126
 Dalton, N., 172
 Dalton, O. M., 178
 Dalvi, V. G., 32

INDEX TO NAMES

- Daly, A. S., 169
 Daly, B. C., 134
 Daly, R. A., 53
 Damilano, B., 250
 Damon, L. T., 275
 Dana, C. L., 123
 Dana, E. S., 230
 D'Andrade, J. C. P., 32
 Dandy, W. E., 15
 Danforth, C. H., 288
 Danforth, R. H., 70
 Danforth, W. C., 320
 Daniel, J., 224
 Daniel, J. F., 23
 Daniel, P., 170
 Daniell, B. H., 183
 Daniels, Miss A., 120
 Daniels, A. H., 317
 Daniels, C. W., 168,
 169, 175, 176, 206
 Daniels, G. W., 208
 Danielson, C. S., 232
 Danley, B. C., 142
 Dann, H. E., 122
 Dann, W. F., 143
 Danschakoff, Miss V.,
 235
 Danson, F. C., 146
 Darbaker, L. K., 270
 Darbshire, O. V., 39
 D'Arcy, R. F., 49
 Dargan, E. P., 63
 Dargan, H. McC., 61
 Dargady, E. S., 174
 d'Arnonberg, F. A., 4
 Darrach, W., 235
 Darroch, A., 91
 Darst, W. H., 302
 Darwall-Smith, G. F.,
 168
 Darwin, C. G., 50
 Das, J. N., 299
 Das, L. B., 132
 Das, L. H. N., 132
 Das, L. I., 131
 Das, L. R., 127
 Das, L. S., 132
 Das, Miss M., 132
 Das, M., 127
 Das, R., 133
 Das, S., 299
 Dass, Miss C., 13
 Dass, L., 263
 Dass, L. A., 112
 Dass, T. N., 200
 Dastur, K. B. F. M., 31
 Dates, H. B., 70
 Datta, G., 133
 Daubigny, T., 221
 Daughters, F., 217
 Daunt, Miss B. M., 159
 Danth, A., 221
 Dauth, G., 278
 Dauth, M. A., 135
 Dave, N. P., 27
 Davenport, 320
 Davenport, C. B., 72
 Davenport E., 317, 319
 Davenport, F. M., 71
 Davenport, H. J., 123
 Davenport, R. W., 329
 David, C. W., 41
 David, H. C. E., 63
 David, T. W. E., 306
 Davidson, A., 197, 198
 Davidson, Hon. Sir C.,
 219
 Davidson, C. G., 305
 Davidson, C. R., 180
 Davidson, Lt. -Col.
 D. M., 131
 Davidson, H. A., 2
 Davidson, H. F., 241,
 275
 Davidson, I., 239
 Davidson, J., 322
 Davidson, J. G., 322
 Davidson, J. H., 293
 Davidson, P., 145
 Davidson, P. E., 300
 Davidson, Sir W. E., 306
 Davidson, W. L., 2
 Davies, A. E., 74
 Davies, A. M., 159
 Davies, C., 344
 Davies, C. L., 16
 Davies, Mrs. C. S., 201
 Davies, Maj. D. C., 59
 Davies, D. C., 66
 Davies, D. S., 39
 Davies, F. L., 213
 Davies, G. A., 105
 Davies, G. A. T., 2, 60
 Davies, G. Me D., 159
 Davies, G. R., 110, 273
 Davies, J. G., 144
 Davies, J. R., 135
 Davies, Miss M. H. L.,
 144
 Davies, T. R., 219
 Davies, T. W., 19
 Davies, W. A., 158, 159
 Davies, W. W., 80
 Davies-Coley, R., 168
 Davis, B. B., 142, 251
 Davis, B. H., 249
 Davis, B. M., 266
 Davis, C. L., 326
 Davis, D. J., 319, 320
 Davis, D. M., 15
 Davis, E. F., 246
 Davis, E. G., 124, 251
 Davis, E. R., 142
 Davis, G. R., 142, 329
 Davis, G. W., 302
 Davis, H. B., 245
 Davis, H. N., 55
 Davis, H. Welford, 3
 Davis, H. W. C., 257
 Davis, J. C., 245
 Davis, J. D., 274
 Davis, J. E., 302
 Davis, J. F., 163
 Davis, J. H., 3
 Davis, J. I., 141
 Davis, J. L., 286
 Davis, J. S., 54
 Davis, L. S., 30
 Davis, O. C. M., 39
 Davis, P. J., 110
 Davis, R. 34, 35
 Davis, Miss R., 135
 Davis, S. B., 268, 269
 Davis, S. G., 167
 Davis, Miss S. R., 24
 Davis, T. L., 33
 Davis, W. T., 326
 Davis, W. W., 136
 Davisman, S. H., 25
 Davison, A. T., 54
 Davison, C., 319
 Davisson, S. C., 30
 Daw, H., 344
 Dawes, C. L., 55
 Dawes, H. F., 313, 314
 Dawes, M. C. B., 183
 Dawkins, R. Mc G., 256
 Dawkins, Sir W. B.,
 190, 209
 Dawson, A. B., 283
 Dawson, The Rt. Hon.
 Lord, 148, 152
 Dawson, G. G., 258
 Dawson, J. W., 94
 Dawson, M. W., 32
 Dawson, P. M., 203
 Dawson, R. W., 142
 Dawson, W. 48
 Day, A. L., 333
 Day, Miss A. L., 281
 Day, C., 227
 Day, E. E., 54
 Day, Miss E., 141
 Day, E. W., 269
 Day, G. P., 227
 Day, J. E., 76
 Day, J. G. F., 84
 Day, Miss M., 156
 Day, R. P., 17
 Day, W. B., 317, 322
 Dayal, J., 264
 Dayal, L. D., 132
 Dayal, P., 200
 De, K. P., 279
 Dealey, J. Q., 275
 Dean, A. D., 232
 Dean, B., 233, 240,
 241
 Dean, Miss E., 101, 83
 Dean, H., 89
 Dean, H. H., 111
 Dean, H. R., 207
 Dean, J. McD., 286
 Dean, L. W., 121
 Deane, S. N., 247
 de Arteaga, F., 29
 Dearmer, P., 157
 Dearholt, H. E., 203
 Dearborn, N., 337
 Dearborn, W. F., 53
 Deans, H., 156
 de Bacourt, P., 233
 de Banfre, W. J., 141
 De Barr, E., 245
 Debburman, P., 295
 de Beaumont, V., 309
 Debel, Niels H., 18
 Debono, F., 321
 Debono, G., 321
 De Busk, B., W. 99
 Decarie, J., 221
 de Castelvecchio, Miss
 L. P., 157
 de Champ, S. E., 309
 Dechevrens, M., 285
 Decker, C. E., 245
 Decker, E. H., 319
 De Cou, E. E., 99
 de Crespigny, C. T. C.,
 4
 Deeds, J. F., 329
 Deering, R. W., 69
 De Farges, J. R., 326
 de Forest, J. B., 249
 Degani, Miss M., 85
 Degeler, A., 277
 Degeler, L., 221
 De Haan, F., 41
 Deighton, F., 47
 de Kock, G., 252
 De Laak, H. J., 286
 Delabarre, E. B., 275
 de Labillière, P. F. D.,
 260
 De Lacy, W. H., 328
 de Laguna, Mrs. G. M.
 A., 41
 de Laguna, T. de L., 41
 Delano, C. C., 283
 Delepine, A. S., 207
 Delif, Miss E. M., 161
 Deller, E., 149
 De Long, J. H., 90
 Delorme, V., 220
 de Lorimer, Hon. C.,
 275
 de Lorimer, Judge
 C. C., 221
 Delp, Miss W. E., 98
 Delpit, Miss L., 247
 De Lucy, A. T., 309
 De Lucy, R. E., 254
 Delwiche, E. J., 203
 Demarest, W. H. S.,
 226
 Demers, L. J., 221
 Demers, Hon. L. P., 278
 Demers, Judge P., 221
 Demey, P., 29
 Deming, H. G., 143
 Deming, W. C., 134
 Dempsey, M., 85
 Dempster, A. J., 64
 Demorest, D. J., 75, 77
 Dench, E. B., 237
 Dendy, A., 151, 157
 Denham, H. G., 37
 Denham, W. S., 173
 Denig, R. C., 234
 Denison, R. B., 267
 Denison, W. K., 210
 Dennie, C. C., 137
 Dennis, A. J. P., 200
 Dennis, C. M., 289
 Dennis, J. U., 17
 Dennis, L. M., 122
 Dennison, J. D., 260
 Denniston, R. H., 201
 Denny, A., 293
 Denny, J. V., 75
 Denslow, H. McK., 238
 Densmore, F., 332
 Dent, E. J., 52
 Denton, C., 100
 Denton, F. M., 164
 Denton, J., 101
 De Onis, F., 232
 de Pierpont, A., 315
 Derby, Earl of, 143, 146
 Derby, S. C., 75
 De Rhodes, Miss H. M.,
 253
 Derick, Miss C. M., 219
 Derlet, C., 25
 Dermer, E. C., 259
 Dermody, L. A., 251
 Derome, W., 221
 Derry, G., H., 137
 D'Ery, Miss L., 264
 Desai, W. S., 200
 De Santi, P. R. A., 172
 Desaulniers, E., 221
 Des Barres, F. W. W.,
 283
 Desch, C. H., 107
 de Setten, F. M., 196
 De Shryver, J. B., 250
 Desjardins, J. L., 275
 de Selincourt, E., 29
 de Sousa, D., 172
 de Souza, D. H., 157
 Despecher, F. J., 251
 Despot, G., 321
 Dessignet, J., 2
 Detlefsen, J. A., 319
 Detman, H. S., 12
 Detweiler, A. K., 251
 Deutsch, M. E., 23
 Devercaux, R., 323
 de Villiers, J. A. J., 177
 De Vine, J. F., 238
 Devitt, E. L., 324
 Devonshire, the Duke
 of, 139, 254

- de Vos, P. J. G., 304
 Dewar, Sir J., 47, 185, 186, 190
 Dewar, R., 280
 Dewey, F. H., 343
 Dewey, F. P., 337
 Dewey, H., 182
 de Wheeler, B. L., 22
 Dewhurst, C. B., 207
 Dewhurst, R. P., 256
 Dewing, H. B., 273
 de Winton, F. H., 260
 Dewitt, C., 68
 De Witt, Mrs. L. M., 64
 De Witt, N. W., 309
 Dewsbury, F., 204
 Dewsnup, E. R., 318
 De Wulf, M., 309, 312
 Dexter, J. S., 291
 Bey, W. M., 61
 De Yturbe, A., 324
 de Zulusta, F., 258
 D'Haulter, Miss M. M., 201
 Dhawan, P. D., 126
 Dible, J. H., 207
 Dicey, R. V., 258
 Dickens, B., 92
 Dickerman, Miss C. G., 119
 Dickerman, S. O., 341
 Dickinson, Miss J. B., 297
 Dickerson, E. T., 17
 Dickerson, J. S., 62
 Dickerson, Miss M. C., 239, 240
 Dickie, A. C., 206, 209
 Dickens, H. C., 258
 Dickinson, 272
 Dickinson, E., 240
 Dickinson, Miss E. S., 297
 Dickinson, G. L., 49
 Dicksee, L. R., 150, 162
 Dickson, E. C., 300
 Dickson, H. N., 280
 Dickson, I. G., 203
 Dickson, J. F., 99
 Dickson, L. E., 63
 Diederichs, H., 125
 Diefenderfer, A. A., 27
 Diekmann, G. C., 234
 Diemer, H., 303
 Dieterich, E. O., 120
 Dietrich, W. F., 300
 Digby, S., 185
 Dill, H. R., 120
 Dill, Sir S., 21, 22
 Diller, T., 269
 Dillihunt, R. B., 99
 Dilling, W. J., 106
 Dillon, T., 103
 Dimmitt, Miss, 199
 Din, C., 133
 Din, M., 133
 Dines, J. S., 180
 Dines, L. H. G., 181
 Dines, L. L., 291
 Dines, W. H., 181
 Dingemans, G. F., 109
 Dinham, C. H., 182
 Dinsmore, S. C., 281
 Dirstine, P. H., 276
 Dishong, J. M., 251
 Disney, A. N., 190
 Disque, F. C., 302
 Dittmar, G. W., 320
 Dixey, F. A., 260, 261
 Dixon, A. C., 21, 22
 Dixon, A. E., 78
 Dixon, A. F., 83
 Dixon, A. L., 257
 Dixon, E. E. L., 182
 Dixon, F. H., 273
 Dixon, H. B., 190, 206
 Dixon, H. H., 83
 Dixon, J. M., 196
 Dixon, R. B., 53
 Dixon, S. M., 165
 Dixon, S. W., 161
 Dixon, W. E., 47, 157
 Dixon, W. F., 246
 Dixon, W. M., 105
 Doak, Miss E. C., 298
 Doak, H., 110
 Doak, W. F., 187
 Doane, R. W., 300
 Dobbie, Sir J. H., 180
 Dobbie, G. W., 16
 Dobbins, L., 92
 Dobbins, J. T., 61
 Dobson, Major G. C., 108
 Dobson, J. F., 38
 Dochez, A. R., 15
 Dock, G., 288
 Dockeray, F. C., 137
 Dodd, S., 172
 Dodd, C. H., 262
 Dodd, L. H., 343
 Dodd, V. A., 77
 Dodd, W. E., 63
 Dodd, W. F., 63
 Dodds, H. W., 69
 Dodds, J. M., 46, 48
 Dadds-Parker, A. P., 256, 257
 Dodge, Miss B. F., 201
 Dodge, C. H., 332
 Dodge, D. K., 317
 Dodge, R., 216
 Dodge, R. E. N., 201
 Dodgson, C., 177
 Dods, G. N., 264
 Dodson, J. M., 62, 64
 Dodson, W. R., 21, 46, 79, 230
 Dolamore, W. H., 174, 175
 Dollin, Viscount, 191
 Dolling, Miss W. R., 98
 Doolman, J. G., 178
 Dollo, A., 221, 222
 Domooske, A. B., 25
 Donagan, A. E., 29
 Donald, A., 207
 Donald, Miss C. B., 305
 Donaldson, H. H., 264
 Donaldson, J. W., 107
 Donaldson, M., 166
 Doncaster, L., 48, 145
 Donnally, H. H., 327
 Donnan, F. G., 150, 155, 190, 194
 Donnelly, Miss L. M., 41
 Donovan, D. D., 78
 Donovan, R., 85
 Doolittle, A., 228
 Doolittle, Mrs. A. H., 249
 Dootson, F. W., 49
 Dora, L., 245
 Dorcas, H. C., 120
 Dore, S. E., 172
 Doré, V., 222
 Dorian, Hon. C. E., 278
 Dorsey, H. B., 319
 Dorsey, H. W., 321
 Dorsey, L. M., 253
 Dorvaux, J. E., 221, 277
 Dorward, J. A., 22
 Doten, S. B., 282
 Dotta, R., 43
 Douay, G., 287
 Dougherty, J. E., 24
 Dougherty, P. E., 303
 Dougherty, R. P., 13
 Doughty, H. W., 10
 Doughty, W. H., 341
 Douglas, C. C., 196
 Douglas, C. G., 260
 Douglas, E. M., 329
 Douglas, F. W., 74
 Douglas, H. R., 99
 Douglas, J., 237
 Douglas, J. A., 147
 Douglas, J. S. C., 293
 Douglas, M. S., 60
 Douglas, W., 279
 Douglas, W. W., 237
 Douglas-Crawford, D., 145
 Douglass, A. A., 277
 Douglass, M. H., 98
 Dover, A. T., 162
 Dow, A. W., 232
 Dow, D. R., 284
 Dow, L. H., 115
 Dow, P. S., 115
 Dowd, C. N., 234
 Dowd, J., 245
 Dowdall, H. C., 144
 Dowden, J. W., 93, 94
 Dowell, A. A., 97
 Dowling, D. B., 254
 Dowling, E. A. C., 39
 Dowling, J. J., 85
 Dowling, L. W., 201
 Dowling, P. A. E., 86
 Downes, W. A., 235
 Downey, J., 78
 Downey, J. E., 134
 Downey, J. W., 16
 Downey, M. H., 4
 Downie, J. W., 105
 Downing, A. S., 6
 Downing, E. R., 65
 Downing, W. B., 138
 Downs, B. W., 50
 Doyle, H. D., 325
 Doyne, P. G., 166
 Dozier, H. D., 115
 Drabble, F., 159
 Drachler, J., 248
 Drake, D., 271
 Drake, H. L., 260
 Drake, J., 291
 Draper, W. K., 234
 Drennan, A. M., 87
 Drennan, C. M., 126
 Drennan, M. R., 58
 Dresden, A., 201
 Dresser, J. A., 254
 Drever, J., 92
 Drew, E. R., 300
 Drew, G. A., 342
 Drew, W. P., 102
 DREWITT, J. A. J., 260
 Dreyer, G., 255, 258
 Dreyer, G. P., 319, 320
 Drinkard, jr., A. W., 30
 Drinker, C. H., 64
 Drinker, H. S., 26
 Drinkwater, T. W., 93
 Droppers, G., 341
 Drown, E. S., 56
 Drown, L. R., 27
 Drucker, A. P. R., 74
 Drummond, Miss, 29
 Drummond, A. M., 123
 Drummond, D., 88, 89
 Drummond, J. M. F., 105
 Drummond, P., 128
 Drummond, R. J., 108
 Drummond, R. R., 253
 Drury, A., 101
 Drury, N. B., 24
 Dryerre, H., 95
 Dryhurst, A. R., 177
 Duane, W., 53
 Dubeau, E., 221
 Du Bois, E. F., 123
 Dubray, C. A., 328
 Duchain, F., 221, 277
 Duckworth, H. T. F., 309
 Duckworth, W. L. H., 48, 50
 Dudden, F. H., 260
 Dudes, B., 234
 Dudgeon, L. S., 151, 167
 Dudgeon, Miss W., 8
 Dudley, B., 303
 Dudley, Miss G., 63
 Dudley, W. H., 200
 Duchren, J. F. M., 252
 Duerden, J. E., 109
 Duff, J. T., 270
 Duff, J. W., 89
 Duff, R. A., 105
 Duffee, F. W., 202
 Duffield, C. A. W., 344
 Duffield, F. A., 145
 Duffield, H. G., 272
 Duffus, W. MacG., 136
 Dufresne, H., 221
 Dugan, R. S., 274
 Duggar, B. M., 288, 289
 Duggar, J. F., 12
 Duhamel, A., 221
 Dujardin, G., 221
 Duke, J. W., 246
 Duke, W. H., 50
 Dulieux, E., 221
 Dulles, J. H., 274
 Du Mez, A. G., 336
 Dun, W. G., 107
 Dun, W. S., 306
 Dunbabin, R. H., 118
 Duncan, C. S., 65
 Duncan, D. C., 302
 Duncan, F. M., 190
 Duncan, G., 2, 284
 Duncan, G. M., 2, 227
 Duncan, J., 251, 305
 Duncan, J. C., 262
 Duncan, J. W., 251
 Duncan, R. S., 314
 Duncan, T. B., 107
 Duncan, T. S., 287
 Dundas, R. H., 269
 Dundas, the Rt. Hon. J. L., 43
 Dundon, J., 78
 Dungan, Miss E. E., 246
 Dunham, G. E., 71
 Dunham, H., 236
 Dunham, Miss M., 31
 Dunivay, C. A., 74
 Dunkel, O., 287
 Dunlap, C. B., 243
 Dunlap, C. G., 136
 Dunlap, J. H., 126
 Dunlap, J. H., 121
 Dunlap, K., 14
 Dunlap, O. E., 12
 Dunlea, W. J., 79
 Dunlop, F. W., 87
 Dunlop, W. C., 21
 Dunlop, W. R., 21
 Dunmore, W. T., 63

INDEX TO NAMES

- Dunn, A. D., 250
 Dunn, Miss F., 142
 Dunn, F. S., 99
 Dunn, J., 328
 Dunn, J. S., 29
 Dunn, L. A., 167
 Dunn, W. A., 270
 Dunningcliff, H. B., 131
 Dunning, H. S., 234
 Dunning, J. C., 275
 Dunning, W. A., 232
 Dunning, W. B., 234
 Dunstan, M. J. R., 344
 Dunstan, W. R., 179
 Dupau, Mdlle. S., 29
 Du Priest, J. R., 316
 Durand, W. F., 300
 Durham, C. L., 122
 Durham, D. B., 71
 Durham, Earl of, 88
 Durham, W. H., 228
 Durkee, F. W., 210
 Durnford, Sir W., 46, 49
 du Roure, J. W., 219
 Durrant, J. H., 178
 Dusham, E. H., 302
 Dussault, N. A., 278
 Dutcher, G. M., 216
 du Toit, A. F., 272
 du Toit, D. F., 304
 du Toit, P. J., 58
 Dutt, B., 132
 Dutt, G. L., 132
 Dutt, K., 44
 Dutt, P. N., 129
 Dutt, S. K., 132
 Dutton, G. B., 341
 Duval, P. R., 245
 Duval, T. G., 80
 Dwherryhouse, A. R., 22
 Dwyer, R. J., 310
 Dwyer, T. J., 251
 Dyar, H. G., 321
 Dyde, H. E., 268
 Dyde, S. W., 128
 Dye, C. A., 76
 Dye, W. S., 302
 Dyer, G. W., 225
 Dyer, H. C., 286
 Dykema, P. W., 200
 Dykes, D. O., 92
 Dykes, F. J., 50, 51
 Dykstra, C. A., 136
 Dymont, C. V., 100
 Dyonnet, E., 221, 222
 Dyson, Sir F. W., 180, 186
 Dyson, W., 207
 Eager, G. B., 199
 Eakle, A. S., 23
 Eames, A. J., 124
 Eames, E. L., 198
 Eames, H. W., 159
 Eardley, F. W., 3
 Earhart, Lida B., 143
 Earhart, R. F., 75
 Earhart, W., 268
 Earl, G. H., 34
 Earle, Miss N. L., 72
 Early, D. T., 197
 Earnest, J. P., 326
 Earp, F. R., 163
 Easby-Smith, J. S., 324
 Eason, H. L., 148, 168
 Eason, J., 93
 East, E. M., 36, 53
 Easterfield, T. H., 340
 Eastman, C., 9
 Eastman, Miss L. A., 68
 Eastman, M., 322
 Eastman, Miss M., 247
 Eastwood, R. A., 207
 Eastwood, T., 182
 Eastwood, T. C., 207
 Eaton, B. J., 128
 Eaton, G. F., 230
 Eaton, J. W., 291
 Eaves, Miss E. C., 293
 Ebeling, H. L., 18
 Ebrile, A. G., 287
 Eby, H. L., 135
 Eccles, F. J., 261
 Eccles, W. H., 162
 Eccles, W. McA., 166
 Eckfeldt, H., 27
 Eckhart, W. R., 300
 Eckels, G. P., 268
 Edgington, A. S., 47, 51
 Eddy, A. J., 25
 Eddy, C. L., 70
 Eddy, Miss H. G., 25
 Eden, T. W., 170
 Edgar, C. B., 147
 Edgar, C. S., 304
 Edgar, J., 284
 Edgar, J. C., 123
 Edgar, O. P., 309
 Edgell, Miss B., 152, 160
 Edgell, G. H., 54
 Edgerton, F., 241
 Edgerton, J. W., 229
 Edgeworth, F. H., 39
 Edgeworth, F. Y., 256, 258
 Edie, E. S., 2
 Edinburgh, Rt. Hon. Lord Provost of, 94
 Edington, G. H., 106
 Edison, E. O., 141
 Edkins, J. S., 152, 160
 Edmonds, J. L., 319
 Edmondson, T. W., 236
 Edmunds, A., 172
 Edmunds, C. C., 238
 Edmunds, P., 16
 Edmunds, S. E., 287
 Edney, D. J. R., 180
 Edsall, D. L., 54
 Edwards Ker, D. R., 231
 Edwards, Lt. Col. A. R., 232
 Edwards, C. W., 111
 Edwards, D., 249
 Edwards, D. S., 305
 Edwards, E., 3, 177
 Edwards, E. J., 107
 Edwards, F. W., 178
 Edwards, H. J., 48
 Edwards, J. T., 158
 Edwards, O. M., 269
 Edwards, P. H., 8
 Edwards, R., 145
 Edwards, R. S., 258
 Edwards, R. W. K., 157
 Edwards, W. M., 178
 Effinger, A. M., 250
 Efrid, O. F., 61
 Egan, M. F., 85
 Egbert, J. C., 232
 Egerton, C. W., 12
 Egerton, H. E., 256, 258
 Eggar, Miss M. E., 208
 Eggeling, H. F., 92
 Eggers, G. W., 66
 Eggers, H. E., 142, 251
 Egleston, C., 123
 Ehrenfest, H., 286
 Eichenlaub, F., 100
 Eichborn, A., 238
 Eigenmann, C. H., 30
 Eikenberry, W. L., 137
 Einarsson, S., 23
 Eisenhart, L. P., 274
 Eisenlohr, B. A., 75
 Ekans, A. H., 46
 Eland, J. B., 163
 Eld, F. T., 190
 Elder, J. R., 2
 Elderkin, G. W., 273
 Elgood-Turner, Mrs. O., 29
 Eliot, E., jr., 234
 Eliot, S. A., 248
 Elkin, W. B., 30
 Elkus, Miss S. A., 247
 Elles, Miss G. L., 52
 Ellenwood, F. O., 125
 Ellerman, F., 262
 Ellershaw, H., 89
 Ellery, E., 271
 Elliot, A., 166
 Elliot, D., 11
 Elliot, E. C., 217
 Elliot, Miss R., 24
 Elliot, Col. R. H., 176
 Elliott, A. R., 319
 Elliott, B. G., 202
 Elliott, C. A., 50
 Elliott, E., 23, 25
 Elliott, E. B., 256, 258
 Elliott, E. S., 233
 Elliott, G. R., 235
 Elliott, G. T., 123
 Elliott, H. R., 326
 Elliott, O. L., 299
 Elliott, P. N., 322
 Elliott, T. R., 171
 Ellis, A., 11
 Ellis, A. G. G., 128
 Ellis, A. J., 177
 Ellis, C. A., 318
 Ellis, D., 107
 Ellis, Miss E. D., 297
 Ellis, G. E., 324
 Ellis, H. M., 253
 Ellis, R. W., 238
 Ells, S. J., 29
 Ellis, W. H., 310
 Ellison, E. M., 337
 Ellison, G., 245
 Ellison, Rev. W. F. A., 11
 Ellison-Macartney, Rt. Hon. Sir W. G., 263
 Ellsworth, C. E., 329
 Elmer, H. C., 122
 Elmer, M. C., 136
 Elmer, W. P., 286
 Elmore, J., 300
 Elmslie, R. C., 166
 Eloesser, L., 301
 Elrod, W. J., 217
 Elsberg, C. A., 237
 Elsdon, J. V., 186
 Else, J. E., 99
 Elser, W. J., 123
 Elsey, H. Mck., 137
 Elsom, J. C., 201
 Elterieb, T. J., 269
 Elton, O., 144
 Elvove, E., 336
 Elwell, F. H., 200
 Elwes, J. H., 192
 Elwood, C. F., 25
 Elwood, P. H., 76
 Elworthy, R. R., 172
 Ely, L. W., 300
 Ely, R. T., 200
 Ember, A., 14
 Embleton, D., 171
 Embody, G. C., 124
 Emch, A., 318
 Emden, A. B., 260
 Emerick, C. F., 247
 Emerson, C. P., 30
 Emerson, O. F., 68
 Emerson, R. A., 124
 Emerson, W. R. P., 211
 Emery, F. P., 115
 Emery, N. M., 26
 Emery, W. D'este, 172
 Emig, E. H., 268, 269
 Emirate, O., 21
 Emley-Elliott, P., 138
 Emmel, V. E., 319, 320
 Emrys-Roberts, E., 60
 Endelman, J., 197
 Endsley, L. E., 268
 Engberg, C. C., 141, 143
 Engel, E. F., 136
 Engelbach, W., 286
 Enger, M. L., 318
 Engineer, M. R., 127
 England, Miss M., 141
 Englehardt, N. L., 233
 Englert, E., 270
 English, Miss A., 103
 English, Sir C., 168
 English, D., 123
 English, F. L., 287
 English, S., 293
 Engman, M. F., 288
 Ennos, F. R., 180
 Eno, A. L., 316
 Eno, Miss E., 199
 Eno, F. H., 77
 Ensign, F. C., 121
 Erb, J. L., 317, 319
 Erdman, C. R., 274
 Erdman, H. E., 76
 Erf, O., 76
 Erlanger, J., 288
 Ernst, Miss A. B., 201
 Ernst, F. A., 201
 Ernst, H. C., 54
 Erskine, J., 232
 Erwin, F. A., 236
 Erwin, J. T., 325
 Erwin, Major S. L., 228
 Esdaile, A., 155
 Esdaile, A. J. K., 177
 Espenshade, A. H., 301
 Espinosa, A. M., 300
 Essig, E. O., 25
 Estabrook, A. H., 72
 Estabrook, L. M., 333
 Estes, C., 137
 Estey, D. F., 114
 Esty, T. C., 9, 10
 Esty, W., 27
 Etecheveny, B. A., 25
 Ettinger, R. P., 237
 Eulich, F. W., 140
 Eustice, J., 297
 Eustis, Miss W., 199
 Evans, A., 172
 Evans, Miss A. C., 336
 Evans, A. J., 145
 Evans, Sir A. J., 188, 256
 Evans, A. M., 147
 Evans, A. W., 228
 Evans, B. D., 119
 Evans, C., 163
 Evans, C. Meck., 31
 Evans, D., 29, 55, 57, 60
 Evans, D. J., 12
 Evans, E., 60

- Evans, E. J., 206
 Evans, E. M., 234
 Evans, F. N., 319
 Evans, H. T., 60
 Evans, I. H. N., 307
 Evans, J., 111
 Evans, J. E., 74
 Evans, J. J., 29
 Evans, J. L., 3
 Evans, J. R. C., 36
 Evans, J. S., 203
 Evans, J. T., 20, 158
 Evans, J. W., 159
 Evans, L. W., 344
 Evans, M. B., 75
 Evans, N. N., 219
 Evans, P. M., 161
 Evans, Sir R. J., 259
 Evans, S., 147
 Evans, T. J., 163
 Evans, W. E., 96
 Evans, W. F., 260
 Evans, W. L., 75
 Evans, W. P., 67
 Eve, A. S., 219, 254
 Eve, D., 225
 Eve, D., jr., 225
 Everett, G. A., 124
 Everett, W. G., 275
 Everidge, J., 172
 Evershed, J., 296
 Ewart, A. J., 213, 298
 Ewart, F. C., 114
 Ewart, G. A., 168
 Ewart, J. S., 91
 Ewell, G. B., 282
 Ewing, A. E., 288
 Ewing, H. W., 80
 Ewing, J., 92, 123
 Ewing, Sir J. A., 91
 Ewing, T., 324
 Exham, G. A., 83
 Eycleshymer, A. C., 317, 319, 320
 Eyre, J., 190
 Eyre, J. W. H., 150, 168
 Eyster, J. A. E., 203

 Faber, H. K., 300
 Fabyan, M., 55
 Fackenthal, F. D., 232
 Fadyen, J. F., 128
 Fagan, C. E., 178
 Fagan, F. N., 302
 Fagee, C. H., 168
 Fagnani, C. P., 239
 Fagnestock 271
 Fairbank, H. A. T., 172, 174
 Fairbank, J. P., 276
 Fairchild, D. G., 331
 Fairchild, F. R., 228
 Fairclough, H. R., 299
 Fairley, B., 309
 Fairlie, J. A., 317
 Falconer, J. D., 105
 Falconer, J. I., 76
 Falconer, Sir R. A., 308, 312
 Fales, H. A., 234
 Fales, Miss J., 233
 Falk, D. B., 270
 Fall, F. A., 236
 Falley, Eleanor W., 18
 Fallon, D., 321
 Famintzin, A., 184
 Fancher, P. A., 71
 Fansler, D. S., 233
 Fantham, H. B., 126
 Faragher, P. V., 137
 Farbridge, M. H., 206
 Farham, W. E., 211
 Faris, E., 63
 Faris, R. L., 328, 336
 Farley, F. E., 216
 Farley, F. L., 289
 Farman, N. H., 274
 Farmer, C. F., 217
 Farmer, Sir F. M., 169
 Farmer, J. B., 165
 Farmer, J. H., 313
 Farmer, W. R., 270
 Farnam, H. W., 228
 Farnell, L. R., 255, 257
 Farnham, C. S., 228
 Farnham, D. T., 256
 Farnsworth, C. H., 232
 Farnsworth, J. 68
 Farnsworth, W. O., 269
 Farnum, Jessica L., 334
 Farquharson, A. S. L., 257
 Farquharson, J. M., 93, 94
 Fan, C. C., 67
 Farr, C. H., 120
 Farr, H. A., 223
 Farr, M. S., 274
 Farran, A. C., 32
 Farrand, H. W., 228
 Farrand, W., 272
 Farrant, R., 172
 Farrell, B. P., 235
 Farrell, F. D., 210
 Farrington, C. W., 211
 Farrington, E. H., 202
 Farrington, O. C., 67
 Farwell, H. W., 234
 Fancher, P. V., 278
 Faull, J. H., 254, 309, 314
 Faunce, W. H. P., 275
 Faurot, A. A., 303
 Faurot, F. W., 223
 Faust, A. B., 122
 Fauver, E., 216
 Faville, A. D., 134, 135
 Favreau, L., 222
 Fawcett, E., 39
 Fawcett, H. S., 24
 Fawcett, J., 78, 79, 167
 Fawcitt, C. E., 306
 Fay, C. E., 210
 Fay, C. R., 48, 50
 Fay, P. B., 23
 Fay, S. B., 247
 Fazal, M. A. M., 127
 Fazl-i-Hagg, 131
 Fearnshides, W. G., 293
 Febiger, C. C., 266
 Fedden, W. F., 168
 Feemster, S. C., 281
 Fegan, Miss E. S., 52
 Fegan, H. J., 324
 Fehr, C. D., 90
 Feldman, I., 169
 Felgar, J. H., 245
 Fell, H. G., 101
 Fell, T., 10, 11
 Fellock, H. M., 34
 Felton, L. D., 15
 Fenn, W. W., 55
 Fenska, R. R., 217
 Fenton, E. W., 231
 Fenton, H. J. H., 47, 190
 Fenton, R. A., 121
 Fenton, W., 163
 Fenton W. J., 170
 Fenwick, C. G., 41
 Fenwick, W. S., 170
 Fenzel, W. H., 12
 Fergus, A. F., 107
 Ferguson, A. A., 209
 Ferguson, The Hon. Mr. Justice D. G., 305
 Ferguson, E. S., 245
 Ferguson, H. L., 87
 Ferguson, H. S., 207, 208
 Ferguson, J., 310
 Ferguson, J. A., 302
 Ferguson, J. De L., 80
 Ferguson, J. H., 93
 Ferguson, R., 196
 Ferguson, The Rt. Hon. Sir R. C. M., 306
 Ferguson, M., 106, 137
 Ferguson, O. J., 141
 Ferguson, W. I., 310
 Ferguson, W. S., 53, 56
 Ferguson, D. C., 92
 Ferni, N., 210
 Fernoi, L. L., 45
 Fernald, M. L., 53
 Fernald, W. E., 211
 Fernandes, D. J., 210
 Fernberger, S. W., 343
 Fernow, B. E., 310
 Ferrall, A. T., 87
 Ferrand, G., 287
 Ferrec, C. E., 41
 Ferree, J. A., 76
 Ferrer, H. T., 341
 Ferrier, R. M., 39, 40
 Ferris, Miss E., 69
 Ferriss, E. N., 245
 Ferriss, H. B., 229
 Ferrow, A., 220
 Ferry, F. C., 71
 Fernson, M. L., 325, 326
 Fessenden, E. A., 303
 Fetter, F. A., 272
 Fettermann, J. C., 268, 269
 Fewkes, J. W., 332
 Finch, H. M., 296
 Fickes, W. L., 270
 Fiddes, E., 205, 206
 Fiedler, H. G., 256
 Field, A. J., 29
 Field, G. C., 144
 Field, I. A., 343
 Field, J. A., 63
 Field, J. H., 296
 Field, S., 164
 Fields, J. C., 254, 309, 314
 Fife, R. H., 216
 Filby, E. J., 318
 Filby, P. T., 65
 Fildes, P., 169
 Filley, H. C., 142
 Fillion, M. Ph. J., 277
 Fillion, Ph. J., 178
 Filon, L. N. G., 248, 150, 155
 Finch, A. A., 88
 Finch, E. H., 329
 Finch, J. K., 235
 Finch, V. C., 201
 Findahl, Miss M., 100
 Findlay, A., 2, 3
 Findlay, J., 126, 145
 Findlay, J. J., 208
 Findlay, W., 313
 Findley, A. E., 293
 Fine, H. B., 272, 274
 Finlay, G. I., 236
 Finrock, C. M., 63
 Finlay, T. A., 85
 Finlay, T. M., 92
 Finlayson, J. N., 113
 Finlayson, R. N., 4
 Finley, F. G., 219
 Finley, J. H., 6
 Finley, P., 84
 Finnegan, J. M., 21
 Finney, J. M. T., 14
 Fippin, E. O., 124
 Firth, A. C. D., 172
 Firth, Miss C. B., 52
 Firth, C. H., 194, 256, 257
 Firth, W. W., 88
 Fischer, G. A., 4
 Fischer, R., 200
 Fischer, C. A., 116
 Fiset, L. J. N., 278
 Fish, C. R., 200
 Fish, H. D., 72, 73
 Fish, J. C. L., 300
 Fish, P. A., 124
 Fishback, F. L., 339
 Fishberg, M., 237
 Fishenden, R. B., 209
 Fisher, C. O., 343
 Fisher, E. D., 237
 Fisher, Miss F., 293
 Fisher, G. C., 240
 Fisher, Rt. Hon. H. A. L., 182, 258
 Fisher, I., 228
 Fisher, J. H., 170
 Fisher, R. T., 36, 55
 Fisher, W. G., 237
 Fisher, W. K., 300
 Fishman, C. J., 246
 Fisk, W. W., 124
 Fiske, 271
 Fiske, C. H., 55
 Fiske, G. C., 201
 Fiske, G. W., 249
 Fiske, N. E., 24
 Fiske, T. S., 233
 Fison, A. H., 168, 169
 Fitch, A. E., 288
 Fitch, A. L., 253
 Fitch, A. P., 9
 Fitch, E., 71
 Fitch, Miss F. M., 249
 Fitchat, H., 109
 Fitchett, F. W. B., 87
 Fite, E. D., 271
 Fite, W., 272
 Fite, W. B., 234
 Fitterer, J. C., 134
 Fitzgerald, D. P., 78
 Fitzgerald, J. A., 79
 Fitzgerald, J. G., 310
 Fitzgerald, J. M., 250
 Fitz-Gerald, J. D., 317
 Fitzgibbon, T. E., 78
 Fitzhenry, Mrs., 163
 Fitzmaurice, Sir M., 182
 Fitzmaurice-Kelly, J., 151, 156
 Fitzpatrick, Sir C., 278
 Fitzpatrick, H. M., 124
 Fitzpatrick, T. J., 143
 Fitz-Simon, V. J., 250
 Fitzwilliams, D. C. L., 173
 Fitzpatrick, T. C., 46, 49
 Flaherty, M. C., 23
 Flanders, M., 338
 Fleece, C. L., 274
 Fleet, J. S., 182
 Flehault, J., 222
 Fleisher, M. S., 286
 Fleming, A., 173
 Fleming, B. P., 121
 Fleming, C. E., 231

INDEX TO NAMES

- Fleming, D. J., 239
 Fleming, J. A., 150, 155
 Fleming, Capt. J. F., 131
 Fleming, R. A., 93
 Fleming, V. R., 318
 Fleming, W. L., 224
 Flemming, P., 170, 171
 Flemming, R. K., 312
 Fletcher, F., 77
 Fletcher, H. M., 166
 Fletcher, J., 207
 Fletcher, J. B., 232
 Fletcher, L. J., 25
 Fletcher, Miss M., 52
 Fletcher, R. S., 10
 Fletcher, S. W., 302
 Fleure, H. J., 3
 Flewelling, R. T., 196
 Flinders-Petrie, W. M., 150, 155
 Fling, F. M., 143
 Flinn, Miss. I. M., 214, 215
 Flint, A., 237
 Flint, E. F., 63
 Flint, E. M., 205
 Flint, Miss H. C., 297
 Flint, J. M., 229
 Flint, L. N., 136
 Flom, G. T., 317
 Flossieder, F. C. H., 25
 Flower, C. T., 183
 Flower, R. E. W., 177
 Floyd, C., 55
 Floyd, M. A., 245
 Flugel, J. C., 155
 Flux, A. W., 188
 Flynn, Hon. E. J., 277
 Flynn, T. T., 118
 Focke, T. M., 70
 Foenander, O. de R., 214
 Foerster, N., 61
 Foerster, R. F., 55
 Fogg, R. J., 27
 Foggie, W. E., 284
 Follansbee, R., 329
 Foley, A. L., 30
 Foley, R. W., 114
 Folligns, C., 256
 Folin, O., 54
 Follis, R. H., 15
 Folsom, D., 253
 Folsom, J. W., 318
 Foltz, C. E. B. K., 336
 Fontaine, E., 222
 Fontaine, M. C. A., 135
 Foord, A. H., 86
 Foot, W. W., 277
 Foote, E. T., 241
 Foote, F. S., 25
 Foote, H. W., 55, 228
 Foote, J. A., 46, 323
 Foote, J. S., 250
 Foraker, F. A., 268, 269
 Forbes, C. N., 119
 Forbes, E. W., 56
 Forbes, G. S., 54
 Forbes, J. F., 66
 Forbes, M. D., 49
 Forbes, N., 256
 Forbes, S. A., 317
 Force, J. N., 23
 Ford, A. C., 149
 Ford, A. H., 121
 Ford, H. E., 309
 Ford, H. J., 272
 Ford, J., 54, 55, 56
 Ford, J. D. M., 53
 Ford, L. E., 196, 198
 Ford, W. E., 228
 Ford, W. M., 237
 Ford, W. W., 15
 Fordyce, A. D., 94
 Fordyce, C., 142, 143
 Fordyce, J. A., 234
 Fordyce, W., 93
 Foreman, J., 306
 Forman, J., 77
 Formosa, G., 321
 Forrester, Miss K. T., 196
 Forrester, R. B., 2
 Forsdyke, E. J., 178
 Forster, E. S., 206, 292
 Forster, M. O., 147, 190
 Forster, Major, W. H. C., 131
 Forsyth, A. R., 161, 165
 Forsyth, C. H., 115
 Forsyth, D., 170
 Forsyth, P. T., 152, 158, 159
 Fort, S. J., 16
 Fortier, E., 221
 Fortier, R., 278
 Fos, W. F., 90
 Fosbroke, H. E. W., 238
 Fosdick, H. E., 239
 Foskett, E., 237
 Foss, Miss H. M., 297
 Foss, J. H., 300
 Fossier, L., 143
 Foster, B. O., 300
 Foster, Miss D., 297
 Foster, Sir G., 148, 154, 155
 Foster, G. N., 141
 Foster, G. O., 136
 Foster, H. D., 115
 Foster, H. H., 246
 Foster, I. L., 301
 Foster, M. B., 237
 Foster, Miss M. L., 247
 Foster, T. S., 38, 67
 Foster, W., 274
 Foster, W. S., 123
 Foster, W. T., 90
 Fothergill, W. E., 20.
 Fotheringham, J. K., 151, 156
 Fotheringham, J. T., 310
 Fouché, L., 272
 Foulds, Miss E., 28
 Foulerton, A. G. R., 156, 175
 Foulk, C. W., 75
 Foulke, Miss K., 268
 Foulkes, P. H., 231
 Fovargue, H. W., 155
 Fowle, F. E. jr., 332
 Fowler, A., 165, 186
 Fowler, E. N., 69
 Fowler, H. T., 275
 Fowler, J. S., 92, 94
 Fowler, R. C., 183
 Fowler, W. A., 246
 Fowler, W. W., 258
 Foye, W. G., 216
 Fox, C. S., 27, 45
 Fox, D. R., 233
 Fox, D. S., 303
 Fox, Miss E. F., 98
 Fox, H., 266
 Fox, H. W., 187
 Fox, J., 180
 Fox, J. J., 328
 Fox, W. S., 168, 195
 Foxley, Miss B., 60
 Foxwell, H. S., 151, 155, 162
 Fraenkel, P. H., 264
 Frahm, F. W., 198
 Fram, P. B., 27
 Frame, J. E., 239
 Frances, J. V., 294
 Francis, A. G., 180
 Francis, E., 39
 Francis, H. T., 51
 Francis, W. E., 39
 Francisco, C. E., 137
 Franck, E., 17
 Francke, K., 56
 Francks, R. A., 243
 François, L., 221
 François, L. J., 277
 Frandsen, J. H., 142
 Frandsen, P., 281
 Frankau, C. H. S., 168
 Frankforter, C. J., 143
 Frankfurter, F., 55
 Frankland, P. F., 190
 Franklin, E. C., 300
 Franklin, Miss H. M., 81
 Franz, S. I., 325, 326
 Franzen-Swedeleus, B., 313
 Franzoni, C. W., 339
 Frary, H. S., 202
 Fraser, A., 237
 Fraser, D. D., 208
 Fraser, J., 2, 93
 Fraser, Miss J., 36
 Fraser, J. C. W., 14
 Fraser, J. S., 94
 Fraser, P., 39
 Fraser, W. J., 319
 Frazer, G. E., 65
 Frazer, J., 83
 Frazer, J. E., 173
 Frazer, J. E. S., 150
 Frazer, Sir J. G., 144
 Frazier, E. G., 31
 Frazier, J. R., 138
 Freak, G. A., 127
 Frear, W., 302
 Freas, T. B., 234
 Frecheville, W., 117, 165
 Fred, E. B., 203
 Frederick, R. C., 177
 Frederick, W. H., 249
 Freeborn, S. B., 25
 Freeman, A. J., 16
 Freeman, F. N., 65
 Freeman, Miss F. R., 253
 Freeman, J., 173
 Freeman, R. G., 237
 French, A. N., 99
 French, C. A., 254
 French, C. H., 51
 French, F. C., 114
 French, H. B., 265, 267
 French, H. E., 110
 French, H. S., 168
 French, J. C., 14
 French, J. G., 175
 French, J. S., 343
 French, R. S., 26
 French, T. E., 77
 Freshfield, D. W., 187
 Fretwell, E. K., 233
 Freund, E., 64
 Frew, R. S., 172, 174
 Friedenwald, H., 16
 Friedenwald, E. B., 16
 Friedenwald, J., 16
 Friedlaender, I., 239
 Friedlan, L. V., 211
 Friel, E. S., 83
 Fries, J. A., 302
 Friczell, F. C., 270
 Friczell, H. E., 270
 Frigon, A., 221
 Frink, H. W., 123
 Fripp, Sir A., 167
 Frisbie, L. E., 142
 Frissell, L. F., 235
 Fritch, F. E., 163
 Frith, J., 207
 Fritz, E., 25
 Frizzell, J. H., 302
 Froelicher, Haus, 18
 Frogg, M. M., 143
 Frontz, W. A., 15
 Frost, E. B., 63
 Frost, G. D., 115
 Frost, J. N., 124
 Frost, R., 39
 Frost, W. D., 202
 Frothingham, R., 235
 Fry, F. R., 288
 Fry, H. M., 27
 Fry, J. D., 39
 Fry, Rt. Hon. L., 38
 Fry, M. W. J., 82, 83
 Frye, P. H., 143
 Fryer, C. E., 219
 Fryer, J. C. F., 194
 Fuller, A. H., 90
 Fuller, Miss E. D., 56
 Fuller, G. D., 64
 Fuller, J. G., 202
 Fuller, Miss M. B., 247
 Fuller, M. O., 27
 Fuller, S. C., 34
 Fullerton, K., 249
 Fulton, A., 284
 Fulton, A. S., 177
 Fulton, C. H., 70
 Fulton, Miss E. L., 110
 Fulton, J. S., 16
 Fulton, T. A. W., 2
 Fulton, W., 2
 Fulton-Wood, F., 341
 Furlong, J. R., 179
 Furner, H., 180
 Furness, C. E., 271
 Furniss, E. S., 223
 Furst, C., 243
 Futch, T. B., 15
 Fyfe, A., 221
 Fyfe, W. H., 257
 Fynes-Clinton, O. H., 19
 Fyvie, W. W., 2
 Gaba, M. G., 143
 Gabbutt, J. P., 67
 Gabbell, D., 175
 Gaboury, Rt. Rev. D. P., 135
 Gabriel, R. H., 228
 Gadd, C. J., 178
 Gaddis, P. L., 142
 Gadwood, H., 48, 53
 Gaehr, P., 123
 Gaetz, H. H., 97
 Gage, Lt.-Col. A. T., 295
 Gage, V. R., 125
 Gager, E. B., 229
 Gagnon, A., 221
 Gagnon, C., 277
 Gahan, A. B., 338
 Gain, J. H., 142
 Gaines, E. F., 277

- Gaines, W. L., 319
 Gains, 142
 Gajjar, M. J., 127
 Galbraith, J. S., 341
 Gale, H. G., 63
 Gale, H. S., 329, 339
 Galea, R. V., 321
 Gallagher, J. F., 225
 Gallagher, Katherine J., 18
 Gallaudet, B. B., 235
 Gallie, D. M., 320
 Gallinger, H. P., 9
 Galloo, E., 136
 Gallop, E. G., 49
 Galloway, G., 284
 Galloway, Sir J., 170
 Galloway, L., 237
 Galpin, S. L., 116
 Galt, Miss C. M., 297
 Galway, Sir H. L., 5
 Gambhir, J. S., 27
 Gamble, C. B., 16
 Gamble, C. W., 209
 Gamble, F. W., 28
 Gamgee, L. P., 29
 Gandier, S. H., 111
 Gangali, S. C., 132
 Gangooley, P., 43
 Ganguli, P. C., 294
 Ganguly, A. N., 133
 Ganong, W. F., 247
 Garay, P. A., 222
 Garabedian, D., 256
 Garcia, F., 303
 Garfield, H. A., 341
 Garfiy, C. N., 277
 Gard, W. L., 12
 Gardham, H. C., 92
 Gardiner, E. G., 152
 155
 Gardiner, F. 93.
 Gardiner, H. N., 247
 Gardiner, Miss J., 111
 Gardiner, J. S., 47
 Gardner, A., 38
 Gardner, C. S., 199
 Gardner, D. C., 299
 Gardner, E. A., 148,
 149, 150, 155
 Gardner, E. G., 206
 Gardner, E. H., 201
 Gardner, F. D., 302
 Gardner, H. B., 275
 Gardner, Miss H. M.
 218
 Gardner, J. A., 152, 175
 Gardner, Miss L., 136
 Gardner, Miss M., 136
 Gardner, N. L., 23
 Gardner, P., 256, 258
 Gardner, W. S., 16
 Garneau, A., 278
 Garneau, Sir G., 278
 Garneau, P. B., 277,
 278
 Garner, J. W., 317
 Garnett, J. C. M., 208
 Garrett, A. E., 163
 Garrett, F. C., 89
 Garrett, H. L. O., 131
 Garrett, J., 294
 Garrett, S. S., 125
 Garrod, A. E., 166
 Garrod, E. W., 257
 Garrow, J. M. E., 340
 Garstang, J., 144
 Garstang, T. W. H., 188
 Garstang, W., 140
 Gartrell, H. W., 4
 Garn, D. A. R., 72
 Garver, F. B., 299
 Garver, J. D., 138
 Garver, M. M., 302
 Garvie, A. E., 158
 Garwood, E. J., 150
 155
 Gaseler, S., 50
 Gass, S. B., 143
 Gasson, T. I., 323, 324
 Gastonguay, J. N., 278
 Gates, O. H., 57
 Gates, R. R., 151, 157
 Gatt, J. L., 321
 Gattet, B., 221, 222
 Gattet, B. M., 277
 Gauge, A. H., 180
 Gaukel, T. L., 286
 Gaul, E. G., 207
 Gaus, C., 272
 Gauthern, R., 220, 278
 Gauthier, His Lordship
 Mgr. G., 220
 Gauthier, O., 222
 Gaw, A., 196
 Gawler, J. S., 213
 Gay, F. P., 23
 Gay, Miss L. M., 201
 Gayer, A. E., 163
 Gayley, C. M., 23
 Geddes, Rt. Hon. Sir
 A. C., 218
 Geddes, J., 33, 35
 Geddes, P., 284
 Gee, W. W. H., 209
 Geer, .., 272
 Geer, C. M., 117
 Geeversese, P. T., 291
 Gehlke, C. E., 68
 Gehrke, B., 163
 Gehrrens, K. W., 249
 Geib, W. J., 203
 Geike, Sir A., 186
 Geiling, K. G., 259
 Geisser, K. F., 249
 Geissler, L. R., 343
 Geldait, W. M., 255, 258
 Gelitch, W., 201
 Gemmill, G. H., 95
 Gemmill, J. T., 284
 Gendreau, J., 221
 Génèreux, D., 221
 Genner, E. E., 260
 Geoffrion, A., 219
 George, A. W., 211
 George, R. H., 228
 George, S. G., 125
 Georgeson, C. C., 296
 Geplhart, W. F., 288
 Gepp, A., 178
 Geraghty, J. T., 15
 Gerald, H. F., 251
 Gerald, H. F., 250
 Gardine, T. G., 329
 Gerhard, W. J., 67
 Gericke, W. P., 24
 Gerig, J. L., 232
 Geremann, A. F. O., 69
 Gerould, G. H., 272
 Gerould, J. H., 115
 Gerould, J. T., 216
 Gerrard, Miss E., 37
 Gerrans, H. T., 260
 Gerrard, H., 207
 Gershenfeld, L., 203
 Gerstenberg, G. W., 237
 Gerstenberger, H. J., 68
 Gervis, H., 167
 Gesell, A. L., 229
 Gettell, R. G., 10
 Gettler, A. O., 237
 Geyl, P., 154, 155, 160
 Ghani, M. A., 44, 133
 Ghosal, D. N., 292
 Ghose, A. K., 292
 Ghose, L., 131
 Ghosh, J. C., 43
 Ghosh, K. M., 132
 Ghosh, L. K., 263
 Ghosh, R. S., 20
 Giard, C. F., 246
 Gibb, A. W., 2
 Gibb, D., 92
 Gibbon, H. H., 257
 Gibbons, J. Cardinal,
 327
 Gibbons, H. W., 301
 Gibbons, Miss M. F.,
 246
 Gibbons, W. W., 292
 Gibbs, C., 170
 Gibbs, L. R., 268, 269
 Gibbs, R. C., 123, 124
 Gibson, A., 112
 Gibson, A. G., 256
 Gibson, A. H., 284
 Gibson, A. J., 37
 Gibson, C. L., 123
 Gibson, E. H., 331
 Gibson, G. A., 105
 Gibson, G. E., 25
 Gibson, J., 19
 Gibson, J. P., 177
 Gibson, W., 182
 Gibson, W. R. B., 212
 Gichner, J. E., 16
 Giddings, F. H., 232
 Gidley, J. W., 331
 Gidvani, A. T., 81
 Gie, S. F. N., 304
 Gies, W. J., 233, 244
 Giese, W. F., 200
 Gifford, E. W., 23
 Gifford, H., 142, 251
 Gifford, R. W., 235
 Gignac, J., 277
 Gilbert, C. G., 331
 Gilbert, C. H., 300
 Gilbert, E. M., 201
 Gilbert, F. B., 6
 Gilbert, J. A., 99
 Gilbert, J. H., 99
 Gilbert, N. E., 115
 Gilbert, O. B., 115
 Gilchrist, D. A., 89
 Gilchrist, J. D. F., 58
 Gilchrist, L., 309
 Gilchrist, T. C., 15, 16
 Gildersleeve, Miss V. C.,
 232
 Giles, H. A., 48, 51
 Gile, J. M., 115
 Giles, L., 177
 Giles, P., 46, 48, 51
 Gilkey, R., 124
 Gill, A., 248
 Gill, A. C., 122
 Gill, C., 22, 29.
 Gill, C. W., 12
 Gill, De L., 332
 Gillen, C. F., 201
 Gillespie, C. M., 139,
 140
 Gillespie, D. C., 123
 Gillespie, P., 310
 Gillett, A. L., 117
 Gillett, C. R., 239
 Gillett, H. W., 234
 Gillette, J. M., 110
 Gilliat, W., 172
 Gillies, A., 34
 Gillies, C. D., 37
 Gillies, G. A., 322
 Gilliland, C. V., 196
 Gillin, J. L., 200
 Gillis, A. C., 16
 Gillispie, H. F., 250, 251
 Gillispie, W., 274
 Gilman, Miss F., 247
 Gilman, P. K., 301
 Gilman, S. W., 200
 Gilmer, A. H., 211
 Gilmore, C. W., 331
 Gilmore, D. P., 121
 Gilmore, E. A., 203
 Gilmore, J. E., 142
 Gilmore, J. W., 24
 Gilmore, R. J., 74
 Gilmour, J. L., 313
 Gilmour, W. H., 145
 Gilpin, J. E., 14
 Gilray, T., 87
 Gilroy, J., 2
 Gimeno, P., 245
 Gingham, C. T., 39
 Gingham, Miss R.
 282
 Ginzberg, L., 239
 Girard, F. R., 301
 Giroux, A., 222
 Girvan, R., 105
 Gittings, Miss I. E., 217
 Giusseppe, M. S., 183
 Givler, D. C., 211
 Gladden, T. L., 11
 Gladstone, R. J., 157
 Gladwin F. E., 104
 Glaisher, J. W. L., 52
 Glaisher, J., 105
 Glanely, The Rt. Hon.
 Lord, 59
 Glaser, C., 286
 Glaser, O. C., 10
 Glaser, L., 270
 Glaser, Miss L. G., 288
 Glasgow, H., 104
 Glasgow, M., 225
 Glassington, 172
 Glassco, A. P. S., 218
 Glasscock, S. S., 137
 Glatfeld, J. W. E., 64
 Glazebrook, Sir R. T.,
 150
 Gleason, A., 248
 Gleason, H. A., 244
 Glaisher, J. W. .., 186
 Glenn, G., 235
 Glenn, L. C., 224
 Gloag, W. M., 106
 Gloze, J. C., 324
 Gloster, Major T. H.,
 33
 Glover, T. R., 46, 48,
 50, 51, 257
 Gloyer, W. O., 104
 Glynn, E. E., 145
 Glynn, T. R., 145
 Goadby, R. W., 171
 Goddard, A. E., 28
 Goddard, A. L., 202
 Goddard, E. J., 304
 Goddard, P. E., 240
 Goddard, R. H., 343
 Godding, T. H., 142
 Godfrey, F. La T., 83
 Godlee, A., 28
 Godley, A. D., 255
 Goebel, J., 317
 Goerner, F. A., 249
 Goettsch, C., 63
 Goetz, Miss A. L., 136
 Goetz, J. S., 142, 251
 Goetz, P. B., 41, 42
 Goggio, C., 231

INDEX TO NAMES

- Gold, Lt.-Col. E., 180
 Goldberg, S. A., 124
 Golder, F. A., 276
 Goldie, Rt. Hon. Sir
 G. T., 187
 Goldie, W., 310
 Goldsack, I. R., 208
 Goldsborough, F. C., 42
 Goldsmith, G., 138
 Goldsmith, J. S., 332
 Goldthwait, J. E., 247
 Goldthwait, J. W., 115,
 116
 Golligher, W. A., 83
 Gollancz, H., 153
 Gollancz, Sir I., 100,
 150, 156,
 Gollmar, Miss E., 142
 Gonner, E. C. K., 144
 Gonneman, H. F., 318
 Gonsalves, T., 210
 Good, H. G., 114
 Goodale, A. S., 10
 Goodale, S. L., 268, 269
 Goodall, A., 93
 Goodall, J. S., 173
 Goodchild, G. F., 149
 Goode, Miss B., 248
 Goode, J. P., 63
 Goodell, T. D., 228
 Goodenough, G. A., 318
 Goodhart, G. W., 168,
 171
 Goodhart, S. P., 235
 Goodhue, E. W., 114
 Gooding, C. L., 303
 Goodman, C., 237
 Goodman, J., 140
 Goodnight, S. H., 201
 Goodnow, F. J., 14
 Goodrich, Miss A. W.,
 233
 Goodrich, E. S., 185,
 257
 Goodrich, F., 341
 Goodrich, H. B., 216
 Goodrich, H. F., 121
 Goodrich, N. L., 16
 Goodridge, M., 123
 Goodsell, W., 233
 Goodspeed, A. W., 266
 Goodspeed, E. J., 64
 Goodspeed, T. H., 23
 Goodwillie, J., 2
 Goodwin, B. G., 29
 Goodwin, C. J., 26
 Goodwin, J. H. H., 50
 Goodwin, W., 304, 305
 Goorich, R. R., 300
 Gordon, A. R., 219
 Gordon, C. McC., 90
 Gordon, E. B., 200
 Gordon, E. J., 77
 Gordon, G. S., 140
 Gordon, J. A., 37
 Gordon, M. H., 166
 Gordon, P., 107
 Gordon, R. K., 97
 Gordon, R. W., 23
 Gordon, S. T., 85
 Gordon, T. E., 83
 Gordon, W., 92
 Gordon, W. T., 152, 157
 Gore, S. N., 33
 Gorham, F. P., 275
 Gorman, C. H., 280
 Gorsham, W. R., 302
 Gorter, J. P., 17
 Goss, Mrs. A. D., 31
 Gossard, H. C., 245
 Gosselin, A., 278
 Gottheil, R. J. H., 232
 Gondie, W. G., 105
 Gondy, A. O., 48
 Gondy, H., 255, 258
 Gould, Hon. A. M., 324
 Gould, C. N., 64
 Gould, H. N., 269
 Goulding, E., 179
 Gourlay, C., 107
 Govier, C. E., 303
 Govindan, R. B. V. V.,
 204
 Gow, A., 164
 Gow, A. E., 166
 Gow, G. C., 271
 Gow, H., 262
 Gowen, J. W., 253
 Gowin, E. B., 237
 Gowland, W. P., 87
 Grabler, L. F., 203
 Grabo, C. H., 64
 Grace, J. H., 47, 48
 Gracey, D. A., 180
 Graff, P. W., 217
 Gragg, Miss F. A., 247
 Graham, A., 196
 Graham, C. I., 174
 Graham, C. J., 178
 Graham, E. A., 288
 Graham, F. P., 61
 Graham, G. W., 127
 Graham, H. B., 301, 302
 Graham, J. M., 93
 Graham, R., 319
 Graham, R. P. D., 219
 Graham, T. H., 94
 Graham, W. C., 77
 Graham, W. J., 69
 Graham, W. R., 111
 Graham-Brown, J. J.,
 94
 Graham-Smith, G. S.,
 47
 Grahamstown, Rt. Rev.
 the Bishop of, 109
 Grambrill, J. M., 233
 Gramlich, H. J., 142
 Grandbois, J. E., 277
 Grandgent, C. H., 53, 56
 Grange, E. A. A., 312
 Grange, L. I., 341
 Granger, A. S., 197
 Granger, F. S., 243
 Granger, W., 240
 Granstedt, L. W., 207
 Granstein, W. C., 54
 Grant, A. J., 140
 Grant, B. C., 143
 Grant, E. J., 232
 Grant, J., 209
 Grant, K., 4
 Grant, Sir L. J., 91
 Grant, L. S., 108
 Grant, Hon. T., 118
 Grant, Miss T. E., 68
 Grant, W., 2
 Grant, W. L., 254
 Graton, L. C., 54, 55
 Gratton, J. E., 324
 Gravatt, T. E., 302
 Grave, B. H., 102
 Gravely, F. H., 45
 Graves, H. S., 333
 Graves, Miss L., 125
 Graves, W. L., 75
 Graves, W. P., 54
 Graves, W. W., 286
 Gray, A., 46, 50, 105,
 125
 Gray, A. A., 105
 Gray, A. K., 37
 Gray, A. M. H., 171
 Gray, C. H., 210
 Gray, F. W., 2
 Gray, Miss G., 135
 Gray, G. B., 255
 Gray, G. M., 137
 Gray, G. P., 25
 Gray, H. D., 300
 Gray, H. L., 41
 Gray, H. T., 174
 Gray, J. A., 219
 Gray, J. C., 270
 Gray, J. G., 105
 Gray, J. H., 49, 50
 Gray, R. C., 264
 Gray, T., 107, 182
 Gray, T. T., 82
 Gray, W. C., 107
 Gray, W. D., 247
 Gray, W. M., 107
 Gray, W. N., 107
 Gray, W. R., 115
 Gray, W. S., 65, 344
 Greaves, W. H., 311
 Green, E. A., 341
 Green, E. E., 194
 Green, F., 319
 Green, E. M., 90
 Green, F. W., 51
 Green, G., 105
 Green, G. R., 302
 Green, H. E., 51
 Green, H. H., 252
 Green, J., 21
 Green, J. A., 292, 293
 Green, J. E. S., 49
 Green, J. S., 148
 Green, J. W., 136, 138
 Green, M. H., 269
 Green, R. L., 300
 Green, S. W., 148
 Green, W. H., 213
 Greene, A. M., 315
 Greene, Miss C., 297
 Greene, Miss D., 135
 Greene, Miss E., 142
 Greene, E. B., 317, 336
 Greene, E. R., 115
 Greene, H. E., 14
 Greene, J., 114
 Greene, J. F., 275
 Greene, L. S., 201
 Greene, W. B., 274
 Greener, Lt.-Col. H.,
 109
 Greenish, H. G., 151
 Greenlaw, E. M., 299
 Greenman, J. M., 288,
 289
 Greenman, M. J., 264
 Greenough, C. N., 53
 Greenough, J., 242
 Greenough, R. B., 54
 Greenup, W., 164
 Greenway, J. C., 229
 Greenwood, A., 211
 Greenwood, E. C., 168
 Greenwood, F. R., 29
 Greenwood, L. H. G.,
 51
 Greenwood, Major, 152
 Greenwood, M., 188
 Greenwood, O., 149
 Greenshields, Hon. Mr.
 Justice R. A. E., 219
 Greever, G. G., 31
 Gregg, J. W., 24
 Gregory, C. A., 99
 Gregory, C. T., 124
 Gregory, H. E., 119,
 228
 Gregory, J. H., 15
 Gregory, J. W., 105
 Gregory, Miss L. H.,
 234
 Gregory, M. S., 237
 Gregory, R. H., 212
 Gregory, W. G., 41
 Gregory, W. K., 234,
 240
 Greig, A., 186
 Greig, A. K., 291
 Greig, D. M., 284
 Greig, J. R., 95
 Greig, T. H., 47
 Greissinger, Miss H.,
 138
 Grenfell, B. P., 256,
 257
 Greves, G. L., 25
 Grey, G., 262
 Grice, Sir J., 212
 Grider, R. L., 138
 Grier, Miss, 52
 Grier, J., 207
 Grierson, H. J. C., 71
 Gries, J. M., 55
 Griffin, Miss, 196
 Griffin, A. P. C., 324
 Griffin, D. W., 246
 Griffin, F. L., 24, 124
 Griffin, Very Rev. J. J.,
 328
 Griffin, L. E., 22, 268,
 269
 Griffin, N. E., 272
 Griffith, C. L., 323
 Griffith, E. C., 275
 Griffith, F. L., 256
 Griffith, Miss H., 297
 Griffith, H. E., 102
 Griffith, I. O., 257, 262
 Griffith, I. S., 318
 Griffith, J. J., 3
 Griffith, J. L., 318
 Griffith, T. W., 140
 Griffith, U. J., 245
 Griffith, W. A., 138
 Griffith, W. G., 103
 Griffith, W. E., 45
 Griffith, W. H., 157
 Griffith, W. S. A., 166
 Griffiths, A., 159
 Griggs, L., 115
 Griggs, R. F., 76
 Grillo, E., 92, 105
 Grima, C. C., 321
 Grimes, M. F., 302
 Grimum, J. C. M., 80
 Grimm, J. H., 287
 Grimsdale, H. B., 168
 Grindley, H. S., 319
 Grindon, J., 286
 Grinnell, J., 23, 26
 Grist, D. H., 128
 Groff, L. A., 197
 Grojan, G., 322
 Grodahl, I. C., 156
 Grondin, S., 278
 Gronow, H. E., 64
 Groom, P., 165
 Grossman, J. P., 12
 Grosvenor, F. B., 76
 Groulx, L., 220, 222
 Groulx, L., 278
 Grove, J. W., 215
 Grove, O., 39
 Grove, R. E., 11
 Grove, T. C., 179
 Grover, A. L., 197, 253
 Grover, F. O., 248
 Grover, N. C., 320

- Grover, S. R., 133
 Groves, E. W. H., 39
 Grubb, G. A., 141
 Gruber, H. D., 27
 Gruenbaum, G., 14
 Gruender, H., 286
 Gruener, G., 228
 Gruener, H., 69
 Gruffydd, W. J., 60
 Grumamp, P. H., 143
 Grupp, C. G., 183
 Grunbaum, O., 169
 Grundy, G. B., 259
 Gualtieri, E., 38
 Gudernatsch, J. F., 123
 Guenther, A., 251
 Guenther, A. E., 142
 Guenther, A. M., 324
 Guérard, J., 278
 Gueret, E. N., 67
 Guesslae, O. G., 123
 Guess, G. A., 310
 Guest, J. J., 152, 155
 Guffey, D. C., 137
 Guggenheim, D., 239
 Guha, J. C., 20
 Guild, F. T., 275
 Guild, G. R., 14
 Guild, J. B., 92
 Guilday, P., 327
 Guilfoyle, W. R., 215
 Guise, L. D., 205
 Gulick, C. B., 53
 Gullan, A. G., 145
 Gulland, G. L., 92
 Gullum, F. B., 12
 Gundry, P. G., 272
 Gunn, J. A., 58, 255
 Gunnell, L. C., 184, 322
 Gunsaulus, F. W., 64
 Gunsaulus, Helen C., 66
 Gunson, J. B., 4
 Gunther, Miss E. H., 233
 Gunther, R. W. T., 259
 Gupta, B. C., 294
 Gupta, G. L., 293
 Gupta, H. P., sen, 292
 Gustaf, G., 319
 Gustafson, A. F., 319
 Guth, W. W., 13
 Guthrie, C. C., 269
 Guthrie, C. G., 15
 Guthrie, E. S., 124
 Guthrie, W. D., 235
 Gutsell H. S., 125
 Gwatken, R., 312
 Gwer, C., 287
 Gwynn, E. J., 83, 87
 Gwynn, R. M., 83, 84
 Gwyne-Vaughan, Dame H., 159
 Haanel, E., 194
 Haas, A. R. C., 25
 Haas, P., 156
 Hack, R. K., 54
 Hackedorn, H., 276
 Haeker, M., 338
 Hackett, J. R., 79
 Hackforth, R., 51
 Hackleman, J. C., 319
 Hadden, A., 68
 Haddon, A. C., 48
 Hadfield, Sir R., 194
 Hadi, A., 126
 Hadi, M. M., 200
 Hadley, A. T., 227
 Hadley, C. H., 302
 Hadley, F. B., 207
 Hadley, W. J., 169
 Hadley, W. S., 46, 49
 Haedell, S. R., 245
 Haertel, M. H., 200, 201
 Haft, D. M., 279
 Hagan, W. A., 124
 Hagen, E. R., 326
 Hagen, R. M., 25
 Hagen, W. L., 226
 Hagenow, C. F., 287
 Hagerty, J. E., 75
 Haggard, Mrs. M. W., 224
 Haggard, W. D., 225
 Hahn, Miss D. A., 298
 Haig, R. M., 233
 Haight, 271
 Haines, A. H., 344
 Haines, W. S., 64
 Hake, H. G., 287
 Hake, H. M., 178
 Hake, H. W., 172
 Haldane, J. S., 258
 Haldane, Viscount, 38
 Hale, E. D., 74
 Hale, G. E., 63, 262, 266
 Hale, W. G., 319
 Hales, G. T., 177
 Haley, D. E., 303
 Haley, Y. W., 225
 Hall, A., 325
 Hall, A. B., 201
 Hall, A. J., 88, 293, 294
 Hall, A. L., 58
 Hall, C. L., 326
 Hall, C. R., 273
 Hall, E. B., 156
 Hall, E. E., 23
 Hall, E. H., 53, 56
 Hall, E. P., 137
 Hall, F., 225
 Hall, F. A., 287
 Hall, F. H., 103, 255, 257
 Hall, F. J., 235, 238, 302
 Hall, F. W., 260
 Hall, G. S., 342, 343
 Hall, H., 152, 183, 193
 Hall, H. B., 216
 Hall, H. J., 299
 Hall, H. R. H., 178
 Hall, I. C., 23
 Hall, I. W., 39
 Hall, J. A., 275
 Hall, J. P., 62, 64
 Hall, R. W., 27
 Hall, T. R., 287
 Hall, W. E., 329
 Hall, W. H., 232
 Hall, W. P., 273
 Hall, W. S., 90
 Haller, W., 233
 Hallett, F. G., 167, 176
 Halliburton, W. D., 151, 157
 Halliday, F. W., 206
 Halliday, W. R., 144
 Hallmond, A. F., 183
 Hallows, K. A. K., 45
 Hallsworth, H. M., 89
 Haltenhoff, A. G., 157
 Halm, J. K. E., 53
 Halpin, J. F., 180
 Halsbury, The Rt. Hon. the Earl of, 161
 Halstead, A. E., 319
 Halsted, W. S., 14
 Halsey, E. W., 34
 Halsey, W. D., 325
 Ham, C. W., 125
 Ham, W., 4
 Ham, W. R., 302
 Hamann, C. A., 68
 Hambleton, B. F., 225
 Hamburger, L. P., 15
 Hamel, A. C., 278
 Hamid, A., 13, 133
 Hamilton, A., 54
 Hamilton, A. B., 134
 Hamlin, A. D. F., 236
 Hamilton, D. W., 276
 Hamilton, E. A., 77
 Hamilton, F. R., 139
 Hamilton, G. E., 324
 Hamilton, G. L., 123
 Hamilton, J. A. G., 4
 Hamilton, J. G. de R., 61
 Hamilton, J. J., 324
 Hamilton, R. A., 323
 Hamilton, Miss S. H., 247
 Hamilton, T., 21
 Hamilton, T. E., 76
 Hamilton, W., 107
 Hamilton, W. H., 9
 Hamilton, W. O., 136
 Hamill, E. A., 66
 Hamill, P., 166
 Hamman, L. V., 15
 Hammon, P. V., 197
 Hammond, M. B., 75
 Hammond, R. L., 253
 Hammond, W. A., 122
 Hammond, W. C., 297
 Hampson, Sir G. F., 178
 Handley, W. S., 173
 Handover, S. J., 259
 Handschin, W. F., 319
 Handy, S. S., 11
 Haney, J. W., 141
 Hanford, J. H., 61
 Hankins, F. H., 343
 Hanna, B. C., 197
 Hanna, Miss D., 248
 Hanna, U. S., 30
 Hanna, W., 148
 Hannah, I. C., 249
 Hannay, R. K., 91
 Hanscom, E. D., 247
 Hanson, F. B., 287
 Hanson, H. A., 200
 Hanson, H. H., 289
 Hanson, J. C., 65
 Hanson, R., 157
 Hanton, W. A., 209
 Hanus, P. H., 53
 Hanzlik, P. J., 68, 69
 Haque, M., 263
 Harcourt, R., 111
 Hardaway, F. P., 287
 Harden, A., 150
 Harden, J. M., 161
 Hardie, Capt. M., 179
 Harding, A. A., 318, 319
 Harding, H. A., 319
 Harding, S. B., 30
 Harding, S. T., 25
 Hardinge-Tyler, G. D., 191
 Hardman, G., 281
 Hardy, A. K., 115
 Hardy, E. A., 291
 Hardy, E. G., 260
 Hardy, G. H., 46, 47, 53, 192, 256
 Hardy, J. G., 341
 Hardy, W. B., 47, 49, 182, 184
 Harger, J. R., 320
 Hargrove, R. M., 246
 Haride, R. P., 92
 Haring, A., 236
 Haring, C. H., 228
 Haring, C. M., 24
 Harivel, Miss E., 96
 Harker, A., 47
 Harker, J. A., 183
 Harker, O. A., 319
 Harkins, W. D., 63
 Harkness, A. G., 275
 Harkness, J., 218
 Harlan, Hon. H. D., 16, 17
 Harley, A. H., 44
 Harley, A. W. M., 342
 Harley, J., 167
 Harlow, Miss S. H., 244
 Harmer, F. E., 206
 Harmer, P. M., 203
 Harmer, Sir S. F., 178, 192
 Harmer, W. D., 166
 Harmon, A. M., 228
 Harmon, G. E., 68
 Harms, B. H., 250
 Harper, Miss A. C., 297
 Harper, G. McL., 272
 Harper, H. R., 34
 Harper, J., 105
 Harper, J. P., 286
 Harper, M. W., 124
 Harper, R. A., 234
 Harper, S. N., 64
 Harrer, G. A., 61
 Harriman, C. A., 236
 Harriman, W. W., 253
 Harring, H. K., 331
 Harrington, E. C., 10
 Harrington, E. H., 343
 Harrington, H. F., 318
 Harrington, J. P., 332
 Harrington, K. P., 216
 Harrington, L. C., 110
 Harrington, T. H., 233
 Harris, A. L., 325
 Harris, A. M., 225
 Harris, A. W., 225
 Harris, C., 68
 Harris, C. L., 303
 Harris, C. O., 301
 Harris, D. F., 112, 113
 Harris, D. L., 50, 51
 Harris, E. F., 5
 Harris, G. D., 122
 Harris, G. E., 341
 Harris, G. M., 83
 Harris, H., 29
 Harris, H. J., 334
 Harris, I. B., 77
 Harris, J. A., 72
 Harris, J. W., 289
 Harris, Miss J. W., 142
 Harris, L. H., 268
 Harris, R. A., 197
 Harris, T. T., 250
 Harris, W., 173
 Harris, W. B., 274
 Harris, W. H., 134
 Harrison, A. C., 16
 Harrison, E., 50
 Harrison, E. P., 296
 Harrison, Florence, 276
 Harrison, F. C., 220
 Harrison, H. G., 191
 Harrison, H. S., 180
 Harrison, Miss J. E., 52
 Harrison, R. G., 229

INDEX TO NAMES

- Harrison, T. W., 180
Harrison, W. J., 49
Harrold, J. B., 159
Harrop, C. B., 77
Harroun, H., 249
Harrow, R. L., 96
Harrower, J., 2
Harsha, W. McL., 319
Harshtberger, J. W., 73
Hart, A. B., 53
Hart, B., 94, 171
Hart, D. B., 94
Hart, E., 90
Hart, E. B., 202
Hart, G. H., 24
Hart, J. E., 224
Hart, J. N., 252, 253
Hart, T. S., 235
Hart, W. M., 23
Hart, W. W., 201
Harte, W. J., 100
Harter, L. L., 337
Hartford, J. S., 246
Hartley, H. B., 257
Hartman, F. A., 309
Hartman, G. F. A., 42
Hartman, L. W., 281
Hartog, M., 78
Hartog, P. J., 149
Hartridge, H., 47
Hartshorne, H., 293
Hartshorn, W. E., 229
Hartung, E. J., 213
Hartwell, J. A., 123
Hartzell, F. Z., 104
Harvey, B. C. H., 64
Harvey, E. L., 102
Harvey, E. N., 274
Harvey, Hon. H., 96
Harvey, J. W., 29
Harvey, R. S., 324
Harvey, S. L., 58
Harvey-Gibson, R. J., 145
Harrowood, Mrs. L. F., 175
Harwood, W. A., 296
Hasain, A., 264
Hasaman, C., 287
Hasaman, W. P., 245
Hasek, C. W., 302
Haselfoot, C. E., 260, 261
Haskell, E. E., 125
Haskell, M. W., 23
Haskins, C. A., 138
Haskins, C. H., 53
Haskins, C. N., 115
Haskins, F. E., 34, 211
Haskins, H. D., 99
Haslam, W. F., 29
Haship, G. E., 188
Hassall, A., 259
Hassall, J. C., 327
Hasse, H. R., 39
Hasselstine, H. E., 330
Hassloch, A. C., 238
Hastings, Mrs. A. M., 249
Hastings, C. H., 334
Hastings, E. G., 202
Hastings, G. C., 249
Hastings, I. S., 115
Hastings, S., 173
Hastings, W. C., 141
Hastings, W. T., 275
Hatai, S., 264
Hatch, D. A., 90
Hatch, K. L., 202
Hatch, Miss L., 248
Hatch, W. H. P., 55, 56
Hatcher, R. A., 123
Hatchett, J. A., 246
Hatfield, H. R., 24
Hatfield, S. A., 77
Hathaway, A. S., 308
Hathaway, Miss M. C., 76
Hathway, A. S., 279
Hattersley, A. F., 269
Hathe, W. H., 113
Hatton, A. R., 68, 69
Hatton, J. L. S., 148, 163
Hatton, R. G., 89, 344
Haubold, H. A., 237
Haughton, S. H., 58
Haultain, F. W. G., 290
Haultain, H. E. T., 310
Haupt, P., 14
Havelock, T. H., 89
Havenmeyer, L., 229
Havenhill, L. D., 137
Haverfield, F. J., 259
Havner, H. H., 302
Hawarth, W. O., 207
Hawes, A. F., 338
Hawken, R. W. H., 37
Hawkes, H. E., 234
Hawkins, H. P., 167
Hawkins, R. H., 269
Hawkins, R. L., 54
Hawley, R. C., 229
Haworth, E., 137
Haworth, P., 38
Haworth, P. L., 30
Haworth, W. N., 284
Hawtin, W. G., 162
Haxo, H. E., 110
Hay, J., 145
Hay, M., 2
Hay, The Very Rev. R. S., 118
Hay, S. M., 310
Hay, W. G., 87
Hayden, C. E., 124
Hayden, H. H., 45
Hayden, J. G., 137
Hayden, Miss M. T., 85
Haydn, H. M., 69
Hayens, K., 284
Hayes, E. C., 317
Hayes, E. H., 258
Hayes, Miss E. M., 211
Hayes, F. M., 24
Hayes, G., 305
Hayes, H. G., 228
Hayes, R. A., 49
Hayes, S. P., 297
Hayhurst, E. R., 77
Haynes, F. E., 120, 298
Haynes, I. S., 123
Haynes, J., 221
Haynes, R. S., 242
Haynes, W. P., 137
Hays, Miss A. X., 301
Hays, G. L., 269
Hays, I. Mimis, 266
Hays, W. C., 25
Hays, W. E., 120
Hayward, W. T., 4
Hayward, H., 226
Haywood, J. K., 334
Haywood, W., 29
Hazard, Miss B. E., 125
Hazari, G. P., 263
Hazar, A. E. W., 255, 258, 260
Hazelstine, H. D., 47
Hazen, C. D., 232
Hazen, T. E., 24
Hazlett, Miss O. C., 298
Heaco, A. E., 249
Head, F. W., 51
Headicar, B. M., 155, 162
Headlam, A. C., 255, 259
Headlam, C., 183
Headlam, H. E., 183
Headridge, D., 207
Headridge, J. P., 207
Heazey, F. W., 251
Heald, F. D., 276
Healy, Very Rev. P., 327
Healy, E. A., 196, 198
Heard, C. H., 142
Heard, J. D., 269
Heard, Brevet-Col. R., 131
Hearnshaw, F. J. C., 151, 156
Heap, H., 207
Heath, A. E., 208
Heath, H., 300
Heath, Sir H. F., 182
Heather, H. J. S., 126
Heatley, C. P., 92
Heaton, B., 294
Heaton, G., 29
Heaton, H., 4
Heaton, H. C., 236
Heaton, T. B., 167
Heaton, W. H., 248
Heatwole, T. O., 16, 17
Heawood, E., 187
Haewood, P. J., 89
Hebard, Miss G. R., 134, 135
Hebb, T. C., 322
Hebble, C. H., 77
Heberden, C. B., 259
Hébert, E., 278
Hébert, P., 278
Hébert, R., 221
Hecht, S., 251
Heck, A. F., 277
Heckel, A. K., 90
Heckman, W., 62
Hector, J. M., 272
Hedgeland, A. J., 179
Hedrick, A. P., 104
Heermance, R., 273
Hegner, R. W., 15
Hehre, F. W., 235
Heidel, W. A., 216
Heil, H. G., 76
Heilbron, J. M., 107
Heilman, W. H., 25
Heilman, W. C., 54
Heine, Miss A. A., 247
Heinicke, A. J., 125
Heintz, E. L., 319
Hekking, W. M., 138
Hektoen, L., 64
Hele, T. J., 51
Helleberg, V. E., 136
Heller, O., 287
Heller, J. B., 140
Helmick, B. C., 253
Helmrich, G. B., 245
Helms, E. J., 34
Helweg, J. H., 156
Remelt, F. J., 328
Hemlingway, S. B., 228
Hemmon, J. C., 219
Hemmeter, J. C., 16
Hemmy, A. S., 129, 131
Hemph, G., 199
Henahan, J. P., 68
Henderson, A., 67, 248
Henderson, B. L. K., 163
Henderson, B. W., 257
Henderson, C. G., 105
Henderson, E. A., 198
Henderson, G. C., 4
Henderson, H. L., 258
Henderson, J., 106, 163, 322, 341
Henderson, W. D., 39
Henderson, W. E., 75, 242
Henderson, Y., 229
Hendrick, J. I., 2
Hendricks, B. C., 143
Hendricks, A. H., 25
Hendrickson, G. L., 22
Hendy, G. W., 25
Henler, W. F., 323
Henmon, V. A. C., 200
Hennel, Miss C. B., 31
Henning, G. N., 325
Henning, H., 238
Hennings, A. E., 322
Henninger, C. H., 269
Henroteau, F., 254, 270
Henry, A., 86
Henry, Miss E. G., 31
Henry, F. G., 219
Henry, G. J. G., 61
Henry, G. M., 73
Henry, J. K., 322
Henry, J. M., 83
Henry, Miss M. F., 125
Henry, R. M., 22
Heneer, C. H., 15
Henshaw, F. F., 329
Henshaw, S., 56
Hensman, Miss S. G., 224
Hepburn, C. McG., 31
Hepburn, D., 60
Hepburn, M. L., 170, 175
Heppner, Amanda H., 141
Herbert, H., 197
Herbert, H. H., 245
Herbert, J. A., 177
Herbert-Smith, G. F., 178
Herbst, G., 276
Hercus, E. O., 213
Herdener, C. F., 89
Herdman, W. A., 145, 184, 186
Herd, L. A., 219
Herford, Miss C., 208
Herford, C. H., 206
Herriot, T. H. P., 107
Herkless, Sir J., 284
Herman, R. A., 46, 47
Herms, W. B., 24
Heron, A. M., 45
Heron-Allen, E., 190
Héroux, M. A. N., 135
Heroy, W. B., 339
Herrick, C. J., 64
Herrick, F. H., 68, 78
Herrick, G. W., 122, 124
Herrick, R., 63
Herrick, W. W., 235
Herring, P. T., 284
Herrington, Sir W. P., 166
Herron, W. H., 329
Hersam, E. A., 25
Hershy, A. S., 30
Hertig, O. L., 270
Herty, C. H., 242
Hertz, A. F., 168
Hertzler, A. E., 137
Hervey, Lord F., 260

- Hesler, L. R., 124
 Hess, A. F., 237
 Hess, F. L., 331
 Hess, J. A., 31
 Hess, J. H., 319
 Hess, R. H., 201
 Hetherington, H. J. W., 60
 Hett, G. S., 171
 Hett, Miss L. M., 81
 Heuer, G. S., 15
 Heuser, F. W. J., 233
 Heuser, G. F., 125
 Hewer, Miss E., 175
 Hewes, Miss A., 297
 Hewetson, J. T., 29
 Hewett, E. L., 290
 Hewlett, A. W., 300
 Hewlett, G. W., 120
 Hewlett, Miss M., 98
 Hewlett, R. T., 150, 157, 176
 Hewitt, T. B., 341
 Hewitt, H., 215
 Hewitt, J. N. B., 332, 337
 Hewitt, J. W., 216
 Hewson, W., 165, 182
 Hey, W. H., 207
 Heycock, C. T., 47, 49
 Hibbard, B. H., 202
 Hibbard, C. A., 61
 Hibbard, P. L., 25
 Hibbe, J. G., 272
 Hibben, J. G., 272
 Hibbert, H., 228
 Hibbert, W. N., 157
 Hibbett, W. E., 225
 Hibbins, W. G., 293
 Hibbs, R. A., 234
 Hibshman, E. K., 302
 Hickernell, R., 100
 Hickerson, T. F., 61
 Hieckling, G., 209
 Hieckling, H. A., 206
 Hicks, B., 172
 Hicks, G. D., 155
 Hickson, J. W. A., 219
 Hickson, S. J., 206
 Hid, J. G., 323
 Hiestand, W. D., 200
 Higbee, F. G., 121
 Higgin, A. J., 213
 Higginbottom, S., 8
 Higgins, A. P., 49, 151, 162
 Higgins, Miss E. B., 119
 Higgins, Miss E. C., 98, 147
 Higgins, G., 213
 Higgins, M. E., 326
 Higgins, W. E., 138
 Higham, T. F., 259
 Hight, J., 67
 Higley, G. O., 80
 Hildebrand, J. H., 15
 Hildebrand, L. F., 11
 Hildt, J. C., 247
 Hildyard, Miss M. C., 159
 Hiley, F. C. W., 177
 Hill, A., 78, 100, 296
 Hill, A. E., 236, 281
 Hill, A. J., 228
 Hill, A. S., 253
 Hill, A. V., 47
 Hill, A. W., 195
 Hill, C. E., 325
 Hill, C. F., 190
 Hill, C. G., 16
 Hill, C. R., 281
 Hill, E. A., 325
 Hill, E. B., 54
 Hill, G. A., 216
 Hill, G. F., 178
 Hill, H. P., 300
 Hill, H. W., 281
 Hill, J., 31
 Hill, J. A., 134
 Hill, J. B., 121, 302
 Hill, J. E., 275
 Hill, J. G., 198
 Hill, M. J. M., 148, 151, 155
 Hill, J. P., 151, 155
 Hill, Miss K. L., 117
 Hill, L., 287
 Hill, Miss P. S., 233
 Hill, R. T., 228
 Hill, T. G., 152, 155
 Hill, W. B., 271
 Hill, W. K., 149
 Hilliard, E., 257
 Hilliard, H., 175
 Hillolson, S., 128
 Hillier, J. M., 195
 Hillman, H. L., 115
 Hills, Brig.-Gen. E. H., 185
 Hills, E. W., 121
 Hills, J. L., 42
 Hills, T. M., 76
 Hillstrom, Miss E., 201
 Hilton, H., 151, 160
 Hinchley, J. W., 165
 Hind, A. M., 178
 Hindle, E., 50
 Hinc, J. S., 76
 Hinkel, L. E., 157
 Hinks, A. R., 187
 Hinks, E., 193
 Hinman, J. J., 121
 Hinsdale, Miss E. C., 297
 Hinton, E. W., 65
 Hippel, A. H., 250
 Hird, W. B., 107
 Hirianna, M., 224
 Hirsch, E. G., 64
 Hirschfeld, H., 156
 Hirst, A. S., 178
 Hirst, Miss B., 13
 Hirst, Miss G. M., 233
 Hiscott, T. H., 190
 Hisduth, A. G., 253
 Hishop, A., 29
 Hiss, H., 253
 Hissdale, A. E., 76
 Hitchcock, A. S., 331, 337
 Hitchcock, R. R., 110
 Hitchcock, W. A., 135
 Hitzrot, J. M., 123
 Hixson, A. W., 235
 Hoag, Miss H. E., 297
 Hoagland, D. R., 24
 Hoar, D. B., 342
 Hoare, E. W., 78
 Hoare, W. D., 169
 Hobbie, J. R., 236
 Hobbs, A. W., 61
 Hobbs, G. W., 202
 Hobbs, W. A., 77
 Hobbouse, Rt. Hon. H., 38
 Hobbouse, L. T., 151, 162
 Hobson, E. W., 47
 Hobson, R. L., 178
 Hockett, H. C., 75
 Hocking, F. E., 54
 Hocking, F. A., 169
 Hodder, F. H., 136
 Hodge, C. R., 3
 Hodge, C. W., 274
 Hodge, E. T., 322
 Hodges, J. C., 80
 Hodgins, E. L., 196
 Hodgkin, R. H., 257
 Hodgkins, H. L., 325
 Hodgman, A. W., 75
 Hodgman, C. D., 70
 Hodgson, B., 39
 Hodgson, E. A., 254
 Hodgson, L., 260
 Hodons, L., 117
 Hodsdon, J., 93
 Hodsdon, J. W. B., 93
 Hoefler, E. G., 134
 Hoehling, A. A., 324
 Hoernle, R. F. A., 54
 Hoerner, W. H., 114
 van Hoesen, Miss M., 110
 Hoffman, C. T., 285
 Hoffman, H. A., 30
 Hoffman, J. W., 80
 Hoffman, A. H., 25
 Hofmeyer, J. H., 126
 Hogben, E. T., 159
 Hogan, F. J., 324
 Hogan, E. V., 113
 Hogarth, D. G., 258
 Hogate, E. G., 30, 31
 Hogg, J. L., 291
 Hoguet, J. P., 123
 Hohfeld, A. R., 200
 Horsholt, A. W., 300
 Holbrook, R. T., 23
 Holcombe, A. N., 54
 Holden, C. A., 115
 Holden, E., 305
 Holden, H. S., 305
 Holden, W. A., 234
 Holden, W. B., 99
 Holder, J., 207
 Holdich, Col. Sir T. H., 187
 Holdsworth, W. S., 255, 260
 Hollabaugh, A. N., 225
 Holland, E. L., 169
 Holland, E. O., 276
 Holland, G. W., 329
 Holland, H. A., 50
 Holland, J. H., 195
 Holland, J. W., 16
 Holland, R. F., 142
 Holland, Sir T. E., 258
 Holland, W. E. S., 44, 45
 Hollander, J. H., 14
 Hollands, E. H., 136
 Holliek, A., 244
 Hollingsworth, H. L., 224
 Hollingsworth, Mrs. L. S., 233
 Hollingsworth, R. R., 287
 Hollingsworth, W. W., 287
 Hollinshead, W. H., 131, 225
 Hollis, A. W., 234
 Hollis, H. P., 180
 Hollister, H. A., 318
 Hollister, J. N., 200
 Hollister, N., 332, 337
 Hollister, R. R., 142, 251
 Hollister, V. L., 141
 Holmberg, F., 246
 Holman, W. L., 269
 Holme, E. A., 305
 Holmer, Miss M. R. N., 86
 Holmes, C. W., 324
 Holmes, F. E., 121
 Holmes, Col. G., 83
 Holmes, G., 170
 Holmes, G. M., 170
 Holmes, H. N., 249
 Holmes, H. W., 54
 Holmes, J., 180
 Holmes, Miss J. R., 102
 Holmes, P. K., 80
 Holmes, Miss R. W., 247
 Holmes, S. J., 23
 Holmes, W. H., 331
 Holmes, W. M., 213
 Holt, A., 145
 Holt, A. H., 121
 Holt, L. E., 234
 Holway, R. S., 23
 Hone, F. S., 4
 Honeij, J. A., 229
 Honey, Miss M. D., 89
 Honoman, K., 326
 Honore, R. F., 135
 Hood, G. J., 137
 Hood, F. C., 29
 Hood, G. W., 142
 Hood, Miss I. R., 240
 Hood, J. F., 339
 Hood, J. H., 68
 Hoofnagle, W. R., 323
 Hooke, S. H., 309
 Hooker, D., 269
 Hooker, D. R., 15
 Hookyna, E. C., 49
 Hool, G. A., 202
 Hooper, Miss B. H., 211
 Hooper, C. H., 344
 Hooper, C. W., 336
 Hooper, J. A. L., 40
 Hooper, O. C., 77
 Hoover, C. F., 68
 Hoover, C. H., 277
 Hoover, C. R., 216
 Hoover, T. N., 12
 Hope, C. W. M., 172
 Hope, E. D., 176
 Hope, E. W., 98, 100, 145, 147
 Hope, J. M. V., 49
 Hope, M. St. J., 186
 Hope, Sir W. H. St. J., 51
 Hopper, H. A., 124
 Hopper, J. E., 107
 Hoppert, E. H., 142
 Hopkins, Annette B., 18
 Hopkins, A. D., 331, 337
 Hopkins, A. J., 10
 Hopkins, A. W., 202
 Hopkins, E. M., 114, 115, 136
 Hopkins, E. W., 228
 Hopkins, F. G., 47, 48
 Hopkins, G. S., 124
 Hopkins, H., 323
 Hopkins, H. C., 326
 Hopkins, Miss H. J., 245
 Hopkins, J. B., 90
 Hopkins, Miss M. M., 247
 Hopkins, N. M., 325
 Hopkins, R. H., 29
 Hopkinson, B. M., 17
 Hopwood, F. L., 166

INDEX TO NAMES

- Horack, F. E., 120
 Horack, H. C., 121
 Hornell, W. G., 80
 Horn, E., 121
 Hornaday, F. A., 326
 Horne, A. R., 2
 Horne, G., 213
 Horne, G. T., 24
 Hornell, J., 204
 Horner, W. J., 249
 Horneyer, Miss B. E., 296
 Horning, L. E., 309
 Horr, A. W., 34
 Horrigan, J. F., 62
 Horsburgh, E. M., 92
 Horton, A. H., 329
 Horton, E., 282
 Horton, E. G., 77
 Horton, F., 98, 151
 Horwitz, A. F., 286
 Hosford, Miss F. J., 249
 Hosford, H. H., 65
 Hoskins, J. P., 272
 Hoskins, L. M., 300
 Hoskins, N., 163
 Hoskins, W. H., 233
 Hosmer, R. S., 124
 Hostmann, J., 234
 Hotchkiss, G. B., 237
 Hotchkiss, L. W., 234
 Hottes, A. C., 76
 Hottes, C. F., 317
 Hough, S. S., 58
 Hough, W., 331
 Houghton, C. E., 236
 Houghton, E., 207
 Houghton, H. G., 201
 Houghton, N. H., 34
 Houghton, T. H., 306
 Houlton, Miss C. M., 81
 House, R. T., 245
 House, W., 99
 Houser, F. W., 197
 Houser, G. L., 120
 Housman, A. E., 48
 Houston, D., 107
 Houston, D. F., 333
 Houston, J., 107
 Houston, I. G., 270
 Houston, T., 22
 Houston, W. P., 211
 Houstoun, R. A., 105
 Hovey, O. I., 239
 How, A. B., 257
 How, J. C. H., 50
 How, J. H., 89
 How, W. W., 257
 Howard, A. A., 52
 Howard, A. G., 34
 Howard, Miss C. M., 233
 Howard, C. McH., 17
 Howard, C. P., 121
 Howard, C. T., 34
 Howard, E. E., 219
 Howard, F. H., 341
 Howard, G. E., 143
 Howard, H. E., 192
 Howard, H. W., 197
 Howard, J. G., 25
 Howard, J. W., 217
 Howard, L. O., 276, 331, 333
 Howard, R., 169
 Howard, R. F., 142
 Howard, R. M., 246
 Howard, S. E., 273
 Howard, W. G., 54
 Howard, W. L., 24
 Howarth, O. J. R., 186
 Howchin, W., 4, 5
 Howden, R., 89
 Howe, C. D., 309, 310
 Howe, C. S., 70
 Howe, F. B., 329
 Howe, G., 61
 Howe, G. M., 74
 Howe, G. W. O., 162, 165
 Howe, H. C., 99
 Howe, H. E., 123
 Howe, J. A., 182, 183
 Howe, M. A., 244
 Howe, W. D., 30
 Howell, Miss A., 143
 Howell, A. G., 21
 Howell, C. E., 277
 Howell, C. M. H., 166, 174
 Howell, E. V., 61
 Howell, R. W., 329
 Howell, W. H., 15
 Howells, C. S., 163
 Howells, G., 291
 Howerth, I. W., 26
 Howes, E. A., 17
 Howes, G. E., 341
 Howes, H., 344
 Howes, R. R. B., 58
 Howitt, J. E., 111
 Howland, G. C., 63
 Howland, J., 14
 Howland, L. A., 216
 Howley, J., 103
 Howorth, Sir H. H., 188, 191
 Howorth, R. B., 191
 Howson, H., 266
 Hoyle, Col. R. E. D., 228
 Hoyles, N. W., 313
 Hoyt, J. C., 329
 Hoyt, P. C., 343
 Hoyt, W. G., 329
 Hrdlicka, A., 331
 Hubbard, Dorothy, 262
 Hubbard, F. G., 200
 Hubbard, Miss G. A., 232
 Hubbard, G. D., 249
 Hubbard, H. V., 55
 Hubbard, J. C., 236
 Hubbard, H. C., 80
 Hubbard, H. M., 228
 Hubbs, E. P., 262
 Hubbs, C. L., 67
 Huber, F., 234
 Huddilston, J. H., 253
 Hudson, A. C., 170
 Hudson, M. O., 55
 Hudson, T. C., 181
 Hudson-Williams, T., 19
 Huebner, J., 209
 Huff, G. A., 318
 Huff, W. B., 41
 Huggins, R. R., 269
 Huggins, W. L., 197
 Huggill, Miss E. J., 305
 Hughes, C., 172
 Hughes, E. C., 167
 Hughes, H. J., 55
 Hughes, Miss H. S., 217
 Hughes, J. A., 62
 Hughes, J. D. L., 140
 Hughes, P., 27, 29
 Hughes, W. H., 260
 Hughes, W. J., 324
 Hughes-Hughes, A., 177
 Hugo, Lt.-Col. E. V., 131
 Hulbert, A. B., 343
 Hulbert, J. R., 64
 Hulbert, L. S., 14
 Hulee, R. S., 203
 Hulett, G. A., 274
 Hull, C. H., 122
 Hull, D. P., 277
 Hull, Miss E., 187
 Hull, G. F., 115
 Hull, R. L., 246
 Hulme, W. H., 69
 Hulse, W., 29
 Hult, G. E., 110
 Humbert, Father, 135
 Humble, H. W., 138
 Hume, J. G., 309
 Hume, R. E., 239
 Hume, S. J., 23
 Hume, W. E., 89
 Humiston, C. E., 319
 Humiston, W. H., 68
 Hummel, E. L., 140
 Hummel, F. H., 22
 Hummel, W. G., 24
 Hummell, R. C., 70
 Humphrey, E. R., 116
 Humphrey, G. C., 202
 Humphrey, W. A., 76
 Humphreys, H. F., 29
 Humphreys, J. S., 55
 Humphreys, W. J., 325, 339
 Humphries, S., 163
 Hundley, J. M., 16
 Hungerford, H. B., 137
 Huukin, J. W., 49
 Hunkins, C. H., 275
 Hunner, G. Le Roy, 15
 Hunt, A. P., 238
 Hunt, A. S., 256, 258
 Hunt, C. B. H., 128
 Hunt, E. L., 123, 235
 Hunt, G. H., 168
 Hunt, H. L., 287
 Hunt, P., 120
 Hunt, R., 54
 Hunt, R. D., 196
 Hunt, T. F., 24
 Hunt, T. H., 342
 Hunt, T. W., 273
 Hunter, A. F., 314
 Hunter, C. A., 302
 Hunter, D. M., 29
 Hunter, J., 107, 312
 Hunter, M., 279
 Hunter, M. A., 316
 Hunter, M. H., 318
 Hunter, O. B., 325, 326
 Hunter, S. J., 137
 Hunter, T. A., 340
 Hunter, W., 152, 172
 Hunter, W. K., 105
 Hunter, W. S., 137
 Huntington, A. K., 194
 Huntington, C. C., 75
 Huntington, E., 228
 Huntingdon, E. C., 114
 Huntington, E. V., 54, 55
 Huntington, G. S., 234
 Huntington, H. B., 275
 Huntley, G. N., 193
 Huuton, E. D., 134
 Huuton, S. W., 283
 Huntsman, A. G., 309, 314
 Hurd, L. M., 237
 Hurd, R. J. W., 149
 Hurlbut, B. S., 53
 Hurley, L. E., 213, 315
 Hurrell, A. S., 263
 Hursh, R. K., 318
 Hurst, G. H. J., 152, 155, 159
 Hurst, H. E., 42
 Hurst, W., 107
 Hurtle, W. H., 166
 Hurwitz, W. A., 123
 Husain, G., 264
 Husain, H. M., 264
 Husain, M. N., 44
 Husband, J., 293
 Huse, C. P., 33, 34, 35
 Huss, H. C. O., 273
 Hussain, M., 10
 Hussey, Miss M. I., 297
 Huston, C. A., 301
 Hutchens, H. J., 89
 Hutchins, E. H., 17
 Hutchins, W. J., 249
 Hutchinson, A. A., 49
 Hutchinson, A. H., 322
 Hutchinson, C. L., 66
 Hutchinson, Miss E. J., 233
 Hutchinson, G. T., 269
 Hutchinson, H. P., 305
 Hutchinson, J., 169
 Hutchinson, J. I., 122
 Hutchinson, L., 24
 Hutchinson, Mary W., 149
 Hutchinson, R., 169
 Hutchison, C. B., 124
 Hutchison, J. A., 219
 Hutchison, R., 174
 Huth, C. F., 64
 Huttman, Miss M. A., 233
 Hutton, F. L., 272
 Hutton, J. B., 105
 Hutton, M., 309
 Hutton, W. H., 256, 259
 Hutton, W. K., 106
 Hyamson, M., 239
 Hyde, C. G., 25
 Hyde, C. W., 326
 Hyde, D., 85
 Hyde, F. C. F., 158
 Hyde, G. M., 201
 Hyde, Miss G. S., 297
 Hyde, Miss I. H., 137
 Hyde, J. E., 63, 78
 Hyde, R. R., 15
 Hyde, Miss W., 143
 Hyland, P. H., 202
 Hynes, J., 103
 Hynson, H. P., 17
 Hypes, B. M., 286
 Hyslop, J. H., 243
 Hyvernal, Very Rev. H., 327
 Ibbotson, F., 294
 Ibbotson, J. D., 71
 Ibbts, J. L., 28
 Ibrahim, M., 126
 Ichibashi, Y., 299
 Iddings, E. J., 223
 Izlal, S. M., 129
 Imms, A. D., 283
 Ingall, D. H., 29
 Ingalls, N. W., 68
 Ingersoll, J. M., 67
 Ingersoll, L. R., 201
 Ingersoll, J. W. D., 228
 Ingham, W. S., 134
 Inghram, E. S., 75
 Ingliss, A. J., 54
 Ingliss, C. E., 47
 Inglis, J. R. H., 87
 Inglis, R., 68

- Inman, T. G., 300
 Ingram, E. G., 38
 Ingraham, R. G., 114
 Ireland, W. F., 81
 Irish, H. E., 320
 Irlane, R. D., 137
 Irwin, J. C., 197, 284, 285
 Irvine, R. F., 305
 Irwin, F., 24
 Isaac, J. F., 177
 Isaac, P., 205
 Isaacs, C. A., 276
 Ise, J., 136
 Ishaq, M., 44, 299
 Isidore, Bro., 135
 Iveagh, Viscount, 82
 Ives, F. W., 76
 Ivey, P. W., 141
 Ivins, W. M., jr., 241
 Iyeyaga, T., 63
 Iyengar, K., 224
 Iyengar, N. K., 315
 Iyengar, W. T. N., 224
 Iyer, V. S. S., 224
- Jabbar, M. A., 112
 Jack, A. A., 1, 2
 Jack, H. W., 123
 Jack, J. G., 36
 Jack, R., 87
 Jack, W. R., 106
 Jackman, W., 309
 Jacks, L. P., 262
 Jackson, A. L., 17
 Jackson, C., 269
 Jackson, Sir C., 148
 Jackson, C. N., 54, 260
 Jackson, D. B. D., 185
 Jackson, D. D., 235
 Jackson, Miss E., 13
 Jackson, F. J. F., 239
 Jackson, G. P., 225
 Jackson, H., 48
 Jackson, Miss H., 13
 Jackson, Sir H., 148
 Jackson, H. G., 28
 Jackson, J., 180
 Jackson, J. F., 276
 Jackson, J. T., 83
 Jackson, Miss R. E., 80
 Jackson, S., 146
 Jackson, W. E. W., 314
 Jackson, W. H., 260
 Jacob, E. V., 277
 Jacob, F., 221
 Jacobs, C. L., 26
 Jacobs, C. M., 319
 Jacobs, W. B., 275
 Jacobson, O. B., 246
 Jacobus, M. W., 117
 Jacoby, F. S., 76
 Jacoby, H., 233
 Jacoby, H. S., 125
 Jaeger, C. H., 235
 Jaifa, J. S., 103
 Jajfa, M. E., 24
 Jagemann, H. C. G. von, 53
 Jakeman, C., 183
 James, A., 93
 James, A. P., 268
 James, E. J., 317
 James, G. B., 172
 James, G. O., 287
 James, H. A., 259
 James, J. A., 203
 James, L. H., 73
 James, N. C., 195
 James, P. R., 141
 James, R. R., 163
- James, R. W., 206
 James, T. C., 3
 James, W. H., 204
 James, W. J., 216
 James, W. W., 175
 Jameson, A. H., 150, 157
 Jameson, H., 74
 Jameson, J. F., 333, 337
 Jameson, Mrs. K. W., 217
 Jameson, R. P., 249
 Jamieson, E. B., 92
 Jamieson, J. K., 140
 Jamieson, Miss R. C., 2
 Jamison, A. W., 319
 Janiwala, S. R., 132
 Janney, S. S., 17
 Jansky, C. M., 202
 Janvier, C. A. R., 8
 Jardine, F. E., 92, 93
 Jardine, H. S., 163
 Jarvis, F. C., 313
 Jasmijn, L. A., 278
 Jastrow, J., 200
 Jay, J. G., 16
 Jayne, H. Le B., 266
 Jeannotte, F., 220
 Jeannotte, H., 221
 Jeannotte, H. J., 277
 Jeans, G. E., 260
 Jeans, J. H., 184
 Jeans, P. C., 238
 Jeffcot, H. H., 86
 Jefferson, B. L., 12
 Jeffries, C. W., 119
 Jeffries, F., 180
 Jeffrey, E. C., 53
 Jeffrey, R. W., 259, 261
 Jehn, T. J., 91
 Jelliffe, R. A., 249
 Jenkin, C. F., 256
 Jenkins, C., 156, 157
 Jenkins, C. F., 259
 Jenkins, D. R., 110
 Jenkins, E. D. T., 3
 Jenkins, E. H., 230, 304
 Jenkins, E. L., 142
 Jenkins, E. V., 199
 Jenkins, G. J., 172
 Jenkins, J. T., 145
 Jenkins, T. A., 63
 Jenkins, W. E., 30, 31
 Jenkinson, A. J., 259
 Jenkinson, C. H., 183
 Jenkinson, F. J. H., 46
 Jenkinson, H., 155
 Jenks, A. W., 238
 Jenks, J. W., 237
 Jenks, L., 269
 Jenks, L. H., 343
 Jennings, H. S., 14
 Jennings, J. A., 84
 Jennings, O. E., 268, 269
 Jennings, W. W., 121
 Jensen, G. H., 277
 Jepson, H. B., 230
 Jepson, W. L., 23
 Jernegan, M. W., 63
 Jesse, R. H., jr., 217
 Jessen, K. D., 41
 Jessop, C. M., 89
 Jessop, W. H., 166
 Jessup, W. A., 120
 Jetté, Sir L., 221, 278
 Jevons, F. B., 88, 89
 Jevons, H. S., 7
 Jewell, H., 314
 Jewett, J. R., 55
- Jewett, R. D., 198
 Jewson, Miss S. T., 283
 Jex-Blake, A. J., 168
 Jex-Blake, Miss K., 52
 Joachim, H. H., 257
 Jobling, J. W., 234
 Johansen, O. A., 122, 124
 Johansson, A., 206
 John, F. L., 3
 Johns, C. H. W., 50
 Johns, C. O., 337
 Johnson, 272
 Johnson, A., 228
 Johnson, A. A., 142, 257
 Johnson, A. B., 275
 Johnson, A. C., 273
 Johnson, A. F., 177, 325
 Johnson, A. G., 203
 Johnson, A. H., 257, 258
 Johnson, A. L., 211
 Johnson, B. W., 198
 Johnson, C., 183
 Johnson, C. E., 137
 Johnson, C. W., 341
 Johnson, D. B. R., 245
 Johnson, D. S., 14
 Johnson, D. W., 232
 Johnson, F. B., 227
 Johnson, F. W., 233
 Johnson, E. C., 276, 277
 Johnson, E. F., 76
 Johnson, E. L., 225
 Johnson, F. E., 138
 Johnson, F. M. G., 219
 Johnson, Miss G., 201
 Johnson, G. E., 54
 Johnson, G. H., 70
 Johnson, H., 232
 Johnson, H. H., 68
 Johnson, J., 203, 228
 Johnson, J. C., 12
 Johnson, J. F., 237
 Johnson, J. M., 336
 Johnson, L. B. T., 323
 Johnson, L. H., 93
 Johnson, L. J., 55
 Johnson, R., 171
 Johnson, R. B. C., 272
 Johnson, R. H., 268, 269
 Johnson, T., 86
 Johnson, T. B., 228, 233
 Johnson, T. C., 244
 Johnson, W. E., 48, 51
 Johnson, W. H., 138
 Johnson, W. S., 136
 Johnston, A. B., 44, 45
 Johnston, A. J., 311
 Johnston, G. C., 269
 Johnston, J., 83, 153, 159
 Johnston, J. I., 269
 Johnston, R. D., 198
 Johnston, R. M., 53
 Johnston, R. S., 286
 Johnston, S. J., 306
 Johnston, T., 83
 Johnston, T. B., 150
 Johnston, T. H., 37
 Johnston, W. J., 3
 Johnstone, Miss H., 152, 156
 Johnstone, J., 145
 Johnstone, J. T., 96
 Johnstone, P. E., 4
 Johnstone, S. J., 179
 Johnnott, E. S., 308
- Joll, C. A., 175
 Jolliffe, A. E., 259, 260
 Jolly, W. A., 58
 Joly, J., 83
 Jonannsen, A., 63
 Jonas, A. F., 142, 251
 Jonas, P., 278
 Jones, A., 159
 Jones, A. E., 3
 Jones, A. H., 275
 Jones, A. L., 234
 Jones, A. M., 268
 Jones, A. T., 247
 Jones, B. J., 25
 Jones, B. M., 3
 Jones, C., 172
 Jones, C. C., 101, 102
 Jones, C. H., 16
 Jones, C. L., 200
 Jones, C. R., 270
 Jones, C. S., 41
 Jones, D., 152, 155
 Jones, D. H., 111
 Jones, E., 28, 180, 300
 Jones, E. D., 197
 Jones, E. G., 145
 Jones, E. J., 12
 Jones, E. L., 323
 Jones, E. R., 202
 Jones, E. S., 249
 Jones, E. T., 19
 Jones, F. E., 138
 Jones, F. M., 114
 Jones, F. S., 227
 Jones, G., 19, 54, 55, 143
 Jones, G. E., 268
 Jones, G. M., 248
 Jones, Sir H., 105
 Jones, H. C., 45
 Jones, H. F., 110
 Jones, H. S., 259
 Jones, Miss H. G., 136
 Jones, H. H., 120
 Jones, H. I., 123
 Jones, H. M., 217
 Jones, H. P., 113
 Jones, H. S., 180
 Jones, H. S. V., 318
 Jones, I., 19
 Jones, J., 164
 Jones, J. C., 281
 Jones, J. D., 292
 Jones, J. H., 105, 140
 Jones, J. L., 85
 Jones, J. M., 310
 Jones, Sir J. M., 19, 20, 59
 Jones, J. N. L., 344
 Jones, J. O., 138
 Jones, J. S., 146
 Jones, J. T. A., 13
 Jones, Lloyd, 202, 249
 Jones, L. R., 202
 Jones, L. T., 24
 Jones, L. W., 242
 Jones, M., 268
 Jones, N., 251
 Jones, Miss O., 77
 Jones, O. T., 206
 Jones, Sir R., 45
 Jones, R. F., 287
 Jones, R. L., 296
 Jones, R. T., 318
 Jones, R. W., 115
 Jones, T. C. L., 145
 Jones, T. E., 146, 200
 Jones, T. F., 236
 Jones, T. Gwynn, 3
 Jones, T. G. H., 37
 Jones, V. S. V., 50

INDEX TO NAMES

- Jones, W., 14
 Jones, W. C., 25
 Jones, W. D., 64
 Jones, W. F., 196, 197
 Jones, W. G., 144
 Jones, W. H. L., 163
 Jones, W. H. S., 50
 Jones, W. J., 3, 207
 Jones, W. M., 19
 Jones, W. N., 217
 Jopp, C. H. R., 256
 Jordan, E. E., 322
 Jordan, E. M., 34
 Jordan, E. O., 64
 Jordan, F. C., 270
 Jordan, H. E., 137
 Jordan, H. G., 209
 Jordan, H. H., 318
 Jordan, Rt. Hon. Sir
 J. N., 21
 Jordan, Miss M. A., 247
 Jordan, R. H., 115
 Jordan, W. E., 51
 Jordan, W. H., 103
 Jordan, W. S., 128
 Joseph, A. F., 127
 Joseph, D. R., 286
 Joseph, G. A., 73
 Joseph, H. W. B., 258
 Josephi, S. E., 99
 Joslin, E. P., 54
 Joubert, W. A., 304
 Joy, A. H., 262
 Joyce, G. C., 134, 260
 Joyce, T. A., 175
 Joyner, Mary C., 262
 Judd, A. F., 270
 Judd, C. C. W., 17
 Judd, C. H., 62, 65
 Judd, H., 77
 Judd, N. M., 331
 Judson, 271
 Judson, A. R., 252
 Judson, C. C., 23
 Judson, H. P., 62, 64
 Jukes, Miss E. M., 174
 Juler, F. A., 174
 Jupta, S. N. D., 131
 Jusserand, J. J., 336
- Karapetoff, V., 125
 Karim, M. A., 132
 Karmakar, S., 20
 Karmmerman J. O.,
 202
 Karr-Simpson, Miss H.,
 322
 Karsner, H. T., 68
 Kashyap, L. S. R., 131
 Kashyap, S. R., 130
 Kasner, E., 234
 Kastner, L. E., 206
 Kastner, V. E., 159
 Kaugh, H., 165
 Kauffmann, O. J., 29
 Kaufmann, A., 250
 Kaufman, J., 234
 Kaul, K., 126
 Kavanagh, W. J., 324
 Kay, D. M., 284
 Kay, F. W., 145
 Kay, G. F., 120
 Kay, S. A., 92
 Kay, T., 106
 Kaye, G. R., 295
 Kays, D. J., 76
 Kayser, E. L., 324, 325
 Kazanjian, V. H., 54
 Kaan, G. W., 211
 Kabyatirtha, A. M., 20
 Kackson, H. C., 237
- Kaectenbeek, G. S. F.
 C., 261
 Kahlenberg, L., 200
 Kaji, H. L., 32
 Kajiji, Hon. Mr. Justice
 A. M., 31
 Kalkus, J. W., 276
 Kalusowski, H. E., 325
 Kalyan, R. N., 133
 Kameswaram, K., 205
 Kamm, O., 318
 Kammerer, F., 234
 Kammerer, T. W., 336
 Kamstead, C. T. T.
 259
 Kane, T. F., 110
 Kania, J. J., 27
 Kanjilal, P., 299
 Kaplan, M. M., 239
 Kapteyn, J. C., 262
 Kapur, S. K., 131
 Karim, M., 44
 Keach, De W. T., 302
 Keatinge, W. H., 257
 Keator, A. D., 110, 111
 Keay, Lt.-Col. J., 94
 Keblor, L. F., 323
 Keeble, J. B., 225
 Keen, B. A., 283
 Keene, H., 154
 Keene, H. B., 28
 Keene, Miss M. F. L.,
 175
 Keener, Lois M., 262
 Keese, S. J., 193
 Kenny, L. J., 286
 Kehoe, C. J., 287
 Kéidel, A., 15
 Keighley, Miss F., 208
 Keighley, T., 208
 Keim, F. D., 142
 Keir, M., 115
 Keirstead, E. M., 313
 Keister, D. C., 201
 Keith, A., 167, 185, 329
 Keith, A. B., 91
 Keith, Miss T., 105
 Keith, W. J., 302
 Keitt, G. W., 203
 Keiher, J., 201
 Kell, Miss J. M., 15
 Kellas, A. M., 173
 Keller, A. G., 228
 Keller, Miss E., 234
 Keller, G. J., 121
 Keller, H. F., 266
 Keller, J. P., 225
 Keller, L. F., 249
 Keller, W. J., 202
 Kellerman, K. F., 337
 Kelleter, P. D., 338
 Kelley, C. F., 75
 Kelley, J. H., 268, 270
 Kelley, R. M., 250
 Kelley, T. L., 233
 Kelley, W. P., 24
 Kellingler, L., 250
 Kellner, M., 55, 56
 Kellock, T. H., 173
 Kellogg, J. L., 341
 Kellogg, V. L., 300
 Kellog, W. G., 6
 Kelly, A. J., 219
 Kelly, E. C. W., 212
 Kelly, E. F., 16, 17
 Kelly, F. J., 136, 138
 Kelly, P. T., 202
 Kelly, J. P., 302
 Kelly, R. E., 145
 Kelly, W., 2
 Kelson J. A., 270
- Kelynack, T. N., 176
 Kemmerer, E. W., 272
 Kemp, J. F., 234
 Kemp, W. W., 26
 Kempner, A. J., 318
 Kendall, Fanny J., 66
 Kendall, J., 234, 300
 Kendall, J. C., 90
 Kendall, P. F., 140
 Kendall, W. S., 227, 230
 Kendrick, W. G., 261
 Kendrick, A. F., 179
 Kendrick, B. B., 233
 Kendrick, F. E., 138
 Kenerson, W. H., 275
 Keniston, R. H., 123
 Kennard, E. H., 123
 Kennaway, E. L., 173
 Kennedy, A. R. S., 91
 Kennedy, C. R., 142,
 251
 Kennedy, C. W., 273
 Kennedy, Very Rev. D.,
 327
 Kennedy, F., 123
 Kennedy, F. L., 54, 55
 Kennedy, H. A., 179
 Kennedy, H. A. A., 95
 Kennedy, J., 95, 110
 Kennedy, P. B., 24
 Kennedy, R., 105
 Kennedy, R. J., 45
 Kennedy, W., 83
 Kennedy, W. P. M., 309
 312
 Kennelly, A. E., 55
 Kennedy-Fraser, D., 92
 Kenner, J., 293, 294
 Kennerly, J. H., 288
 Kenneson, T. D., 236
 Kennett, R. H., 43
 Kenny, 46
 Kenny, J. E., 250
 Kenoyer, L. A., 8
 Kenrick, F. B., 309
 Kent, B. C., 253
 Kent, C. F., 229
 Kent, H. C., 28
 Kent, H. W., 241
 Kent, N. A., 33, 35
 Kent, O. B., 125
 Kent, R. A., 138
 Kent, T. P., 58
 Kenwood, H. R., 151,
 155, 171
 Kenyon, Sir F. G., 177
 Kenyon, Rt. Hon. Lord,
 19, 59
 Kenyon, T. A., 208
 Keogh, Sir A., 164
 Keogh, A., 227, 228
 Ker, C. B., 93
 Ker, W. P., 150, 155,
 258
 Kerby, W. J., 328
 Kern, B. R., 325
 Kern, E. F., 235
 Kern, F. D., 302
 Kern, O. J., 24
 Kernot, W. N., 213
 Kerr, A. T., 122, 123
 Kerr, H. H., 326
 Kerr, J. G., 105
 Kerr, J. M. M., 105
 Kerr, W. M. A. R., 97
 Kerr, W. H., 92
 Kerry, W., 212
 Kersey, W. H., 344
 Kershaw, J. A., 215
 Kershaw, J. W., 203
 Kesari, J. E., 205
- Kessler, J. B., 121
 Kester, F. E., 157
 Kester, R. B., 233
 Keswani, L. D., 81
 Ketcham, V. A., 75
 Ketton, L. W., 15
 Kettle, E. H., 173
 Keyes, E. L., 123
 Kevalramani, M. K., 27
 Kevalramani, G. G.,
 81, 101
 Kevalramani, P. B., 112
 Keynes, J. N., 46, 48,
 49
 Keys, D. R., 309, 314
 Keyser, C. E., 191
 Keyser, C. J., 233
 Khaleid, A., 44
 Khaliuddin, S., 44
 Khan, A. H., 131
 Khan, M. A., 13
 Khan, M. A. M., 264
 Khan, M. U., 133
 Khan, Z. A., 44
 Khan-ud-din, M., 133
 Khare, L. G., 32
 Khosla, M. C., 126
 Kidd, A. M., 25
 Kidd, A. S., 109
 Kidd, B. J., 261
 Kidd, F., 169
 Kidd, H. C., 268, 269
 Kidder, H. W., 9
 Kidde, D., 296
 Kidson, F. J., 156, 157
 Kidwell, C. H., 329
 Kiehle, F. A., 99
 Kiekhofner, W. H., 201
 Kierstead, W. C., 102
 Kieselbach, T. A., 142
 Kiger, W. H., 197
 Kilduff, E. J., 237
 Kilgour, B. W., 272
 Killam, A. H., 329
 Killam, C. W., 55
 Killam, S. D., 77
 Kilner, G. Q., 159
 Kilner, G. W., 158
 Kilpatrick, 272
 Kilpatrick, W. H., 232
 Kimball, A. L., 10
 Kimball, A. R., 334
 Kimball, A. S., 249
 Kimball, D. S., 125
 Kimball, E., 247
 Kimball, Miss G. A., 9
 Kimball, M. J., 12
 Kimbrough, H., 276
 Kimmins, C. W., 147
 Kimpton, A. R., 211
 Kind, H., 252
 Kind, J. L., 201
 King, A., 326
 King, A. C., 124
 King, A. S., 262
 King, E. F., 318
 King, Miss E. M. A.,
 293
 King, E. R., 125
 King, F. T., 87
 King, Miss G. G., 41
 King, H. C., 248, 249
 King, H. D., 264
 King, H. E., 250
 King, H. H., 127, 128
 King, H. L., 249
 King, H. M., 322
 King, Miss H. M., 247
 King, I., 121
 King, J. C. E., 99
 King, J. E., 287

- King, Jessie L., 18
 King, J. M., 225
 King, J. S., 305
 King, L., 219
 King, Miss L. S., 275
 King, Sir L. W., 83
 King, R. A., 119
 King, W. B. R., 182
 Kingsbury, B. P., 122, 123, 124
 Kingsbury, H. K., 300
 Kingsbury, Miss S. M., 41
 Kingsford, A. B., 171
 Kingsford, H. N., 115
 Kingsford, H. S., 184
 Kingsley, J. S., 317
 Kingston, G. F., 342
 Kinkead, R. J., 103
 Kinley, D., 317, 318
 Kinloch, J. P., 2
 Kinne, W. S., 202
 Kinnery, Asa, 298
 Kinnicut, L. N., 343
 Kinsella, W. T., 251
 Kinsloe, C. L., 303
 Kinsman, C. D., 142
 Kipping, F. S., 248
 Kipps, E. J., 29
 Kirby, G. H., 243
 Kirby, G. H., 123
 Kirby, R. S., 228
 Kirby, T. J., 268, 269
 Kirfer, P. J., 318
 Kirk, A., 206, 209
 Kirk, H. B., 340
 Kirk, J., 180
 Kirk, K. E., 260
 Kirkaldy, A. W., 248
 Kirkland, J. H., 224
 Kirkman, W. B., 228
 Kirkpatrick, F. H., 312
 Kirkpatrick, R., 178
 Kirkpatrick, T. P. C., 83, 85
 Kirkwood, F. E., 217
 Kirkwood, M. R., 301
 Kirkwood, W. A., 309
 Kirshman, J. E., 146
 Kishan, A., 299
 Kistler, H. K., 303
 Kitch, Miss E. M., 249
 Kitchin, F. L., 182
 Kitchin, G., 92
 Kitson, C. H., 85
 Kittredge, G. H., 56
 Kittredge, G. L., 53, 56
 Kittredge, R. B., 121
 Kittredge, R. E. L., 309
 Klar, W. H., 268
 Kleeberger, F. L., 23
 Kleene, G. A., 116
 Klein, A. W., 27
 Klein, D., 15
 Klein, J., 54
 Kleinschmidt, L. S., 303
 Kleinheinz, F., 203
 Kleyla, R., 250
 Klinek, L. S., 322
 Kline, A. M., 289
 Kline, E. K., 134
 Klingaman, O. E., 120
 Klocker, F. B., 286
 Klotz, O., 254, 269, 314
 Klugh, H., 162
 Knaedel, H. C., 303
 Knapp, A. H., 234
 Knapp, C., 232, 257
 Knapp, H. C., 16
 Knass, J. O., 302
 Kneale, J. C., 29
 Knebelmen, M. S., 27
 Knecht, E., 209
 Kneiler, R. A., 121
 Knibbs, G. H., 306
 Knight, A. P., 254
 Knight, Miss C. M., 156
 Knight, C. S., 281
 Knight, E. H., 117
 Knight, Mrs. E. H., 135
 Knight, E. W., 61
 Knight, G. W., 75
 Knight, H., 230
 Knight, H. G., 304
 Knight, H. S., 135
 Knight, J. H., 120
 Knight, L. I., 64
 Knight, Miss M., 301
 Knight, N., 82
 Knight, S. H., 134
 Knight, W. A., 77
 Knight, Sir W. H. H., 292
 Knipmeyer, C. C., 303
 Knipp, C. T., 318
 Knoap, D., 293
 Knobel, E. B., 186
 Knoch, Miss C. A., 290
 Knoles, T. C., 289
 Knoop, D., 293
 Knott, C. G., 92, 96
 Knott, H. C., 51
 Knott, T. A., 64
 Knox, J., 2
 Knox, J. H. M., jr., 15
 Knox, R., 194
 Knox, W. S., 99
 Knox-Shaw, H., 42
 Knox-Shaw, T., 51
 Knowles, F., 305
 Knowles, F. K., 294
 Knowles, J., 177
 Knowles, M., 263
 Knowles, Mrs., 151
 Knowlton, C. D., 211
 Knowlton, F. H., 331
 Knowlton, H. T., 132
 Knudson, A. C., 34, 35
 Knudson, L., 124
 Kober, G. M., 323, 337
 Koch, E. W., 42
 Koch, F. C., 64
 Koch, F. H., 61
 Koch, J. A., 270
 Kochenderfer, C. C., 325
 Kocher, A. L., 302
 Koehler, G. A., 99
 Koehler, L. M., 196
 Koening, A. E., 202
 Koessler, K. A., 64
 Koessler, M., 249
 Koford, C. A., 23
 Kohler, E. P., 53
 Kohli, M. R., 263
 Kohlmeier, A. L., 31
 Kohly, G. R., 183
 Kohne, C. T., 285
 Kolls, A. C., 336
 Kommers, J. B., 202
 Konantz, Miss E. L., 80
 Konar, A. K., 205
 Koopman, H. L., 275
 Koren, W., 273
 Korim, A. S. M., 44
 Kostir, W. J., 78
 Kotany, L., 287
 Kothari, B. K., 200
 Kouwenhoven, W. B., 15
 Kovarik, A. F., 228
 Kowalke, O. L., 202
 Kower, H., 23
 Krance, J. A., 250
 Krapp, G. P., 232
 Kratz, A. P., 318
 Kraus, C. A., 343
 Kraus, E. J., 200
 Krause, K. A., 15
 Krause, E. H., 142
 Krauskopf, F. C., 201
 Kreager, F. O., 276
 Krebs, W. S., 288
 Kreckler, F. H., 76
 Kreider, D. A., 229
 Krekbiel, E., 299
 Kremers, E., 203
 Kriebel, V. K., 219
 Krige, J. D. A., 126
 Kroeber, A. L., 23
 Kroeck, L. S., 289
 Kruegel, W. C., 276
 Krueger, Miss J., 202
 Krumm, S. Z., 108
 Krummel, C. A., 80
 Krumwiede, C., jr., 237
 Kruse, H. O., 136
 Kruse, P. J., 124
 Kueny, F. J., 253
 Kuhl, E. P., 18
 Kuhn, H. W., 75
 Kuhn, J. F., 246
 Kuhn, W. F., 137
 Kuhnmuensch, O. J., 286
 Kuhns, O., 216
 Kulkarni, P. V., 32
 Kulp, V. H., 246
 Kumar, R. K., 8
 Kunda, U. N., 126
 Kunhardt, Major, J. C. G., 33
 Kunkel, B. W., 90
 Kuntz, A., 286
 Kunz, J., 318
 Kurrelmeyer, W., 14
 Kurtz, B. P., 23
 Kurtz, C. F., 120
 Kurtzborn, E. E., 286
 Kusehan, F., 146
 Kuster, E. G., 293
 Kyes, P., 64
 Kyle, J. J., 197
 Kynoch, J. A. C., 284
 Kyrk, Miss H., 249
 Labbe, E. J., 99
 L'Abbe, J. H., 254
 Labrecque, H., 221
 Laby, T. H., 213
 Laek, H. L., 169
 Lacoste, Sir A., 221, 278
 Lacroix, A., 184
 Lacy, St. J., 78
 Ladd, A. J., 110
 Ladd, L. W., 68
 Laffar, R. G. D., 50
 La Flesche, F., 332
 Lafleur, E., 219
 Lafleur, H. A., 219
 Lafleur, P. T., 218
 La Follette, J. J. M., 31
 Lafontaine, Judge E., 221, 278
 Lagace, J. B., 278
 La Garde, L. A., 326
 Lager, C. H., 36
 Lahey, F. H., 211
 Lahey, J. A., 114
 Lalidie, A., 13
 Laidlaw, P. P., 163
 Lain, E. S., 246
 Laing, A. T., 310
 Laing, B. M., 293
 Laing, F., 178
 Laing, G. J., 63
 Laing, J. A., 213
 Laird, A. G., 201
 Laird, Miss A. L., 310
 Laird, D. M. W., 95
 Laird, Miss E. R., 297
 Laird, J., 22
 Lake, E. J., 317
 Lake, G. C., 336
 Lake, R., 55
 Lake, N. C., 170
 Lake, P., 48
 Lakin, C. E., 173
 Lal, B., 131
 Lal, C., 133
 Lal, K., 263
 Lal, L. J., 127
 Lal, L. S., 131
 Lal, M., 130, 131, 133
 Lal, N., 264
 Lal, P. M., 131
 Lal, S., 132
 Laliberté, J. F., 278
 Lamb, A. B., 54, 242
 Lamb, C. G., 47
 Lamb, E. H., 150, 163
 Lamb, H., 206
 Lamb, H. M., 219
 Lamb, W. A., 329
 Lambert, A., 123
 Lambert, A. E., 74
 Lambert, A. P. S., 285
 Lambert, B., 259
 Lambert, B. J., 121
 Lambert, E. T., 219
 Lambert, F. D., 211
 Lambert, J. J., 121
 Lambert, P. A., 26
 Lamberton, C. D., 69
 Lambie, J. S., 268
 Lambourne, J., 128
 Lambuth, D., 115
 Lamond, R., 106
 Lamplugh, G. W., 182, 186
 Lamson, P. D., 15
 Lancashire, G. H., 207
 Lanctot, H., 222
 Land, W. J. G., 63
 Landacre, F. L., 76
 Landan, J. I., 126
 Lander, C. H., 182
 Landon, 272
 Landrum, Miss M., 199
 Landry, A. E., 328
 Landsbury, J. J., 98, 99
 Lane, A. C., 211
 Lane, A. L., 121
 Lane, A. M., 90
 Lane, C. C., 56
 Lane, C. S., 117
 Lane, E. B., 211
 Lane, E. P., 202
 Lane, F. H., 268
 Lane, G. T., 295
 Lane, H. H., 245
 Lane, J. E., 173
 Lane, Sir W. A., 167
 Lane, W. B., 309, 311
 Lang, A. E., 309, 311
 Lang, Rt. Hon. and Most Rev. C. G., 258
 Lang, H., 240
 Lang, H. R., 228
 Lang, J., 87

INDEX TO NAMES

- Lang, J. M., 320
 Lang, J. W., 27
 Lang, P. R. S., 284
 Lang, W. D., 178
 Lang, W. R., 309
 Langdon, C., 275
 Langdon, F. J., 251
 Langdon, S., 256
 Lange A. F., 26
 Lange, G. F. A., 247
 Lance, N. A., 70
 Langelier, W. F., 25
 Langfeld, H. S., 54
 Langford, A. L., 309, 311
 Langguth, A. B., 324
 Langille, H. B., 25
 Langley, J. N., 47
 Langmead, F., 174
 Langmead, F. S., 173
 Langsdorf, A. S., 287
 Langston, W., 246
 Langton, H. H., 311
 Langton, J. L., 209
 Langworthy, W. F., 114
 Lankester, Sir E. Ray, 271
 Lanman, C. R., 53, 241
 Lanpher, S. C., 253
 Lansdown, D. W., 305
 Lansdown, R. G. P., 39
 Lansing, R., 337
 Lansing, Miss R., 248
 Lantz, C. W., 281
 Lapege, C. P., 207
 Lapege, G., 207
 Lapeley, G. T., 50
 Lapham, J. R., 325
 Laplante-Courville, H., 221, 222
 La Porte, G. L., 235
 Laporte, W. R., 196
 Lapsley, G. T., 50
 Lapworth, A., 206
 Lapworth, H., 186
 Lard, C. E., 164
 Larke, J. P., 163
 Larkin, F. C., 145
 Larkin, F. V., 27
 Larkin, J. H., 235
 Larmor, Sir J., 46, 47
 Larne, A., 221
 Larner, J. B., 337
 Laroche, O., 221
 Larose, A., 221
 Larouche, H., 220
 Larremore, T. A., 100
 Larsell, O., 203
 Larsen, E. S., 329
 Larsen, T., 322
 Larson, Miss B., 233
 Larson, C. W., 235
 Larson, G. L., 202
 Larson, H., 120
 Larson, L. M., 317
 Laskey, J. E., 324
 Lasley, J. W., 61
 Laslie, J., 107
 Latans, J. H., 14
 Latham, A. C., 168
 Latham, A. G., 89
 Latham, Miss A. J., 233
 Latham, G. W., 219
 Latham, J. G., 212
 Lathrop, H. B., 201
 Latif, I., 280
 Latimer, J. W., 326
 La Touche, A. D., 198
 Latreille, E., 220
 Latta, R., 105
 Lauchheimer, S. H., 17
 Lauder, G. D., 158
 Lauer, E. H., 120
 Laufer, B., 66
 Laughlin, H. H., 72, 73
 Lauman, G. N., 122, 124
 Laurence, A., 221
 Laurence, A. J., 222
 Laurendeau, C., 222
 Laurens, H., 229
 Laureys, H., 222
 Laurie, A. P., 94
 Laurie, R. D., 3
 Laver, W. A., 213
 Laves, K., 63
 Law, The Rt. Hon. A. Bonar, 104
 Lawford, J. B., 167
 Lawlor, H. J., 84, 87
 Lawrence, C. W., 196
 Lawrence, Miss E. B., 288
 Lawrence, E. F., 98, 99
 Lawrence, J. F., 142
 Lawrence, L. A., 125
 Lawrence, Miss M., 199
 Lawrence, R. O., 50
 Lawrence, R. V., 50
 Lawrence, T. W. P., 171
 Lawrence, W. M., 114
 Lawrence, W. W., 232
 Lawson, A., 173, 284
 Lawson, A. A., 306
 Lawson, A. C., 23
 Lawson, B. R., 61
 Laws, C. R., 287
 Lawson, E. R., 326
 Lawson, H. W., 326
 Lawson, J. C., 49
 Lawson, R., 212
 Lawson, T. R., 315
 Laycock, C., 114
 Laycock, Miss N., 175
 Laylin, C. D., 77
 Layton, T. B., 168
 Layton, W. T., 48
 Lea, A. M., 4
 Lea, E. J., 24
 Lea, F. C., 28
 Lea, J., 149
 Leacock, S., 218
 Leader, H., 293
 Leahy, A. H., 292, 293, 294
 Leake, J. P., 336
 Leaming, Miss C., 74
 Leaming, Miss S. F., 74
 Leapant, C. H., 217, 218
 Lear, J. E., 61
 Leary, D. B., 42
 Leary, Miss E., 332
 Leary, Mrs. O. C., 211
 Leary, T., 211
 Leathes, J. B., 292, 293
 Leavell, L. P., 199
 Leavitt, F. J., 197
 Leavitt, H. W., 253
 Leavitt, S. E., 61
 Lebour, Miss M. V., 271
 Le Bray, A., 232
 Leclerc, O., 278
 Le Conte, J. N., 25
 Lecours, J. E. W., 222
 Lederer, E., 265
 Ledingham, J. C. G., 151
 Ledwith, J. J., 141
 Lee, B. T., 123
 Lee, E. A., 31
 Lee, Rev. E. J., 21
 Lee, F. S., 234
 Lee, G. W., 182
 Lee, J. M., 237
 Lee, M. A., 125
 Lee, M. A. W., 25
 Lee, Miss M. L., 156
 Lee, R. I., 54
 Lee, R. W., 219
 Lee, Sir S., 150, 152, 163
 Lee, S. G., 259
 Lee, T. S., 324
 Lee, W. T., 34
 Leebrick, K. C., 24
 Leech, P., 324, 326
 Leedham-Green, C. A., 29
 Leek, J. De W., 66
 Leening, B. A., 324
 Leenes, N. J., 217
 Lees, A. H., 39
 Lees, C. H., 151, 163
 Lees, J., 2
 Lees, J. H., 82
 Lees, J. T., 141, 143
 Lees, K. A., 174
 Leet, F. L., 85
 Leete, B. E., 279
 Lefebure, G., 220
 Lefroy, H. M., 165
 Lefschetz, S., 137
 Legacé, J. B., 220
 Legg, L. G. W., 258
 Legg, S. C. E., 156
 Legg, T. P., 172
 Legge, R. T., 23
 Legge, T. M., 157, 207
 Le Grade, L. A., 237
 Lehenbauer, P. A., 319
 Lehfeldt, R. A., 126
 Lehfeldt, T. A., 179
 Lehmann, A. L. F., 97
 Lehmann, F. J., 249
 Lehner, D. N., 23
 Lehnert, E. H., 135
 Lehrer, O. A. J., 246
 Leigh, C. W. E., 208
 Leigh, H. S., 207
 Leigh-Sharpe, W. H., 173
 Leighton, H., 263, 269
 Leighton, J. A., 75
 Leighton, W. E., 286
 Leiper, R. T., 151, 176, 187
 Leitch, R. H., 108
 Leith, B. D., 203
 Leith, C. K., 200
 Leitz, T. F., 16
 Leland, O. M., 123, 125
 Leland, W. G., 336
 Lelandais, F., 221
 Lelandais, F. L., 277
 Lellman, W. O. L., 238
 Leluan, J., 221
 Lemberger, J. L., 265
 Lemieux, Hon. R., 221, 278
 Lemon, H. B., 64
 Le Motte, G. A., 246
 Lempfert, R. G. K., 180
 Lendon, A. A., 4
 Lenher, V., 200
 Lenker, J. N., 68
 Lennard, R. V., 260
 Lennie, Miss A. B., 92
 Lennox, P. J., 328
 Lenox, L. R., 300
 Leutz, F., 17
 Lentz, V., 11
 Leonard, A. G., 110
 Leonard, Miss E., 197
 Leonard, E. F., 320
 Leonard, Miss E. P., 202
 Leonard, F. E., 248
 Leonard, G. H., 38
 Leonard, R. J., 26
 Leopold, R. F., 135
 Le Rossignol, J. E., 141
 Le Roux, T. H., 272
 Lesage, A., 221
 Lescohier, D. D., 201
 Lesher, C. E., 329
 Lesley, E. P., 300
 Lesley, J. W., 51
 Leslie, P., 2
 Leslie, R., 58
 Leslie-Roberts, H., 145
 Le Souef, E. A., 264
 Lespinasse, V. D., 319
 Lessensur, T., 221
 Lessing, O. E., 317
 Lester, C. B., 200
 Le Sueur, H. R., 151, 167
 Letourneau, M. F., 135
 Lett, H., 169
 Leuba, J. H., 41
 Luedsdorf, C., 255, 260
 Leupp, H. L., 22
 Leuschner, A. O., 23
 Leutner, W. G., 68
 Leutwiler, O. A., 318
 Leveen J. L., 177
 Leverhulme, The Rt. Hon. Lord, 146, 176
 Levi, T. A., 3
 Levie, A., 305
 Levin, I., 237
 Levin, V. E., 251
 Le Wald, L. T., 237
 Le Wall, C. H., 265
 Lewers, Miss K., 231
 Lewers, R., 280
 Lewis, A., 270
 Lewis, A. B., 66
 Lewis, B., 286
 Lewis, C. A., 142
 Lewis, C. I., 24
 Lewis, C. J., 29
 Lewis, C. L., 71
 Lewis, C. M., 228
 Lewis, D. D., 64
 Lewis, E. A., 3
 Lewis, E. E., 121
 Lewis, E. P., 23
 Lewis, F. C., 146
 Lewis, F. J., 97
 Lewis, Florence P., 18
 Lewis, F. T., 54
 Lewis, G. N., 25
 Lewis, J. C., 213
 Lewis, Major J. C., 64
 Lewis, L. P., 107
 Lewis, L. R., 210
 Lewis, Miss M., 80
 Lewis, Miss M. D., 247
 Lewis, R., 234
 Lewis, T., 171
 Lewis, W. C. M., 145
 Lewis, W. E., 302
 Lewis, W. H., 14, 100
 Lewis, W. J., 47, 92, 257
 Lewison, M., 319
 Lewton, F. L., 331
 Lewton-Brain, L., 128

- Leyden, Miss L., 217
 Leys, K. K. M., 257
 Leyton, O., 169
 Libman, E., 234
 Libbey, W., 272
 Libby, E. N., 34, 211
 Libby, O. G., 110
 Lichenstein, Miss C., 219
 Licklider, A. H., 341
 Lichty, J. A., 269
 Lichty, J. C., 245
 Liddy, R. B., 283
 Lieb, C. C., 235
 Lieder, P. R., 247
 Life, A. C., 196
 Lightfoot, R. M., 58
 Lighty, W. H., 201
 Ligoury, 135
 Lilienthal, H., 123
 Lillie, F. R., 63
 Lillie, R. S., 343
 Lilly, L. A., 286, 287
 Lilly, W. E., 83
 Lim, R. K. S., 92
 Lincoln, A. T., 316
 Lincoln, F. C., 281
 Lincoln, W., 344
 Lindley, C. H., 25
 Lindquist, O. A., 249
 Lindsay, A. D., 257
 Lindsay, Mrs. G. E., 78
 Lindsay, J. A., 22
 Lindsay, J. C., 196
 Lindsay, S. McC., 235
 Lindsay, W. S., 291
 Lindsey, J. L., 245
 Line, J., 283
 Linforth, J. M., 23
 Ling, G. H., 290, 291
 Lingle, J. J., 64
 Lingley, C. R., 115
 Linhart, S. B., 268
 Linn, J. W., 63
 Linnstrom, E. W., 203
 Linticum, G. M., 16
 Linton, E. M., 31
 Linton, R. G., 95
 Linville, T., 327
 Lipman, C. B., 23, 23
 Lipman, J. G., 226
 Lippincott, Miss E., 67
 Lippincott, I., 288
 Lippitt, Miss L. C., 202
 Lippmann, G., 286
 Lischer, B. E., 288
 Lisse, M. W., 303
 Lister, T. D., 147
 Liston, Lieut.-Col. W. G., 33
 Litchfield, H. W., 10
 Litman, S., 318
 Litsitz, S. T., 286
 Litterer, W. J., 225
 Little, A. G., 206
 Little, A. P., 168
 Little, C. C., 72
 Little, E. G., 174
 Little, E. G. G., 147
 Little, F. R., 342
 Little, W., 259
 Littledale, H., 60
 Littlehales, G. W., 325
 Littlejohn, H., 92
 Littlewood, J. E., 50
 Liveing, G. D., 50
 Livermore, K. C., 124
 Liveridge, A., 306
 Livingston, A. C., 336
 Livingston, B. E., 14
 Livingston, G., 333
 Livingstone, R. W., 259
 Lloyd, A. C. G., 58
 Lloyd, B. J., 336
 Lloyd, F. E., 219
 Lloyd, Hon. Sir G. A., 31
 Lloyd, H. H., 18
 Lloyd, J. E., 19
 Lloyd, J. W., 319
 Lloyd, L. S., 182
 Lloyd, M. D. J., 206
 Lloyd, W. R., 25
 Lobban, J. H., 159
 Lobeck, A. K., 202
 Lochhead, W., 220
 Locher, R. W., 17
 Lock, C. J., 190
 Lock, W., 256, 260
 Lockard, G. C., 147
 Locke, A. W., 246
 Locke, E. A., 54
 Locke, F. S., 152, 157
 Locke, G. H., 314
 Lockhart, J. S., 260
 Lockwood, C. D., 198
 Lockwood, E. H., 229
 Lockwood, G. R., 234
 Lockwood, H. J., 90
 Lockwood, W. F., 16
 Lockyer, C., 170
 Lodwyckx, A., 212
 Lodge, G., 232
 Lodge, Sir R., 91
 Loeb, H. W., 286
 Loeb, L., 288
 Loeb, V., 286
 Loeffel, W. J., 142
 Loetscher, F. W., 274
 Loevenhart, A. S., 203
 Loew, E. A., 256
 Loewe, H. M. J., 257
 Loewenberg, J., 24
 Logan, F. G., 66
 Logan, H. T., 322
 Logan, W. N., 31
 Logeman, W. S., 58
 Lohr, V. J., 326
 Loiseaux, L. A., 232
 Lomas, A. D., 208
 Lomas, Mrs. S. C., 183
 Lomer, G. R., 220
 Loney, S. L., 98, 147
 Long, A. G., 110
 Long, E. H., 42
 Long, J. A., 24
 Long, J. S., 271
 Long, Le R., 245
 Long, O. W., 341
 Long, W. S., 137
 Longbottom, J. G., 107
 Longcope, W. T., 234
 Longden, A. C., 102
 Longland, W., 164
 Longley, W. H., 18
 Longley, W. R., 229
 Longman, H. A., 38
 Longwell, H. C., 273
 Lonn, Ella, 18
 Loomis, E. H., 274
 Loomis, F. B., 10
 Loomis, M. E., 236, 237
 Looney, R. E., 246
 Losely, C. J., 174
 Lord, A. R., 109
 Lord, C. E., 118
 Lord, C. S., 6
 Lord, D. A., 285
 Lord, Eleanor L., 181
 Lord, E. W., 33
 Lord, F. P., 115
 Lord, G. D., 115
 Lord, H. C., 75
 Lord, H. G., 233
 Lord, J. P., 142, 251
 Lord, J. W., 15
 Lord, L. E., 249
 Lord, R. H., 54
 Lorenzen, E. G., 229
 Lorimer, W. L., 284
 Lorrain, L., 222
 Lorrain, L. P., 221
 Lothian, Miss E., 215
 Lothrop, H. A., 54
 Loud, G. C., 137
 Louden, Mrs. E. V., 248
 Louderbeck, G. D., 23
 Loudon, T. R., 310
 London, W. J., 309
 Lough, J. E., 237
 Loughlin, G. H., 329
 Louis, H., 89
 Louis, J. B., 286
 Lounsbury, B. F., 320
 Louns, P. 36
 Love, 184
 Love, A. E. H., 256
 Love, E. F. J., 213
 Love, E. G., 54, 242
 Love, H. H., 124
 Love, T. J., 324
 Loveday, G. E., 207
 Loveday, T., 89
 Lovejoy, A. O., 14
 Lovelace, B. F., 14
 Loveland, G. A., 142
 Lovell, E. B., 235
 Lovett, R. M., 62, 63
 Lovett, R. W., 54
 Lovitt, W. V., 74
 Low, A., 2
 Low, G. C., 157, 176
 Low, R. C., 93
 Low, Sir S., 156
 Low, V. W., 173
 Lowe, C. B., 265
 Lowe, P. R., 178
 Lowe, W. D., 89
 Lowell, A. L., 36, 53
 Lowenthal, Miss E., 247
 Lower, W. E., 68
 Lowes, J. L., 53
 Lowie, R. H., 240
 Lowman, G. S., 201
 Lowrey, L. T., 197
 Lowstuter, W. J., 34, 35
 Lowther, W. E., 281
 Lowry, T. M., 150, 168, 194
 Lowry, W., 83
 Lowy, A., 269
 Lucas, A., 29
 Lucas, E. D., 129, 131
 Lucas, F. A., 239
 Lucas, J. J., 8
 Lucas, N. S., 187
 Luce, A. A., 83, 84
 Luce, G. H., 279
 Luch, M. J., 27
 Lucke, C. E., 235
 Luckenbill, D. D., 64
 Luckett, W. H., 237
 Luckhandt, A. B., 64
 Luebs, A. A., 141
 Luehring, F. W., 274
 Luke, J., 107
 Lull, R. S., 228, 230
 Lumpkin, J. C., 16
 Lumsden, D., 125
 Lund, G. L., 197
 Lundberg, Miss M. G., 69
 Luney, F. W., 196
 Lunn, A. C., 63
 Lunn, A. G., 322
 Lunn, R., 182
 Lunt, H. L., 197
 Lupson, J. T., 213
 Lupton, A. G., 139
 Luquens, R. B., 228
 Lusby, S. G., 37
 Lusk, G., 123
 Lusk, W. C., 237
 Lusk, W. F., 124
 Lussky, G. F., 217
 Lutz, F. E., 240
 Lutz, H. L., 249
 Lybber, A. H., 317
 Lydall, Miss G. O. E., 163
 Lyde, L. W., 155
 Lyle, H. H. M., 234
 Lyle, H. W., 171, 172
 Lyle, J. V., 183
 Lyle, R. P. R., 89
 Lyman, E. W., 239
 Lyman, J. F., 76
 Lyman, R. A., 141
 Lyman, R. La V., 65
 Lyman, T., 53
 Lynam, C., 191
 Lynam, E. W. F., 177
 Lynch, J. B., 280
 Lynch, M. C., 26
 Lynde, C. J., 220
 Lynn, F. S., 17
 Lynn, Miss M., 136
 Lyon, A. C., 253
 Lyon, A. E., 202
 Lyon, D. G., 55, 56
 Lyon, D. M., 92
 Lyon, H., 233
 Lyon, I. P., 42
 Lyon, J. H. H., 233
 Lyon, M. W., jr., 337
 Lyon, P. C., 257
 Lyon, T. L., 124
 Lyons, H. W., 119
 Lyons, R. E., 30
 Lys, F. J., 260
 Lyster, R. A. C., 166
 Lytle, Sir H. C. M., 183
 Lytgoe, A. M., 241
 Lyttel, E. S., 296
 Maas, A. R., 198
 MacAfee, J. B., 176
 Macalister, A., 47
 Macalister, C. J., 145
 Macalister, Sir D., 104
 Macalister, R., 87
 Macalister, R. A. S., 85
 Macalister, W. K., 225
 Macan, R. W., 257
 Macara, J., 254
 Macartney, W. A., 107
 Macatee, H. C., 339
 Macaulay, F. R., 24
 Macaulay, W. H., 49
 Macbeth, A. K., 22
 MacBride, E. W., 165
 MacClintock, W. D., 63
 MacCormack, H., 173
 MacCormack, H. N., 271
 MacCracken, J. H., 90
 MacCullum, M. W., 305
 MacCullum, S. M., 310
 MacCallum, W. G., 14
 MacCurry, G. G., 228
 MacCurry, G. G., 230
 Macdonald, A., 101, 257, 294
 Macdonald, Miss A., 2
 Macdonald, A. A., 310

- Macdonald, D. B., 117
 MacDonald, D. J., 31
 MacDonald, F. C., 272
 Macdonald, H. M., 2, 192
 Macdonald, J. A., 188, 291
 Macdonald, J. H., 106
 MacDonald, J. S., 145
 Macdonald, Miss P., 303
 Macdonald, R. A., 144
 MacDonald, T. H., 337
 MacDonald, W. L., 322
 Macdonell, A. A., 256, 257
 Macdonell, Sir J., 150, 155
 MacDougall, D. T., 316
 MacDougall, R. S., 95
 Macdowell, E. C., 72
 Macdewane, J. B., 286
 MacEnri, S. P., 103
 Macewen, Sir W., 105
 Macfadyn, W. A., 272
 MacFall, J. E. W., 145
 MacFarland, Sir J. H., 212
 Macfarlane, A. G., 177
 Macfarlane, J. J., 267
 Macfarlane, Hou. J. R., 270
 Macfarlane - Grieve, Capt. A. A., 89
 MacGillivray, A., 284
 MacGillivray, A. D., 317
 MacGowan, G., 197
 MacGregor, A. N., 106
 MacGregor, A. S. M., 106
 MacGregor, D. H., 206
 MacGregor, F. H., 202
 MacGregor, J. A., 196
 MacGregor, J. H., 234
 MacGregor, J. M., 152, 160
 Macgregor, M., 182
 Macgregor, W. R., 126
 Machell, H. T., 310
 Machen, J. G., 274
 MacInnes, C., 38
 MacInnes, I., 322
 Macintosh, D. C., 229
 MacIntosh, W., 285
 MacIntyre, F. A., 114
 Macintyre, J., 26, 105
 MacIver, R. M., 309
 Mack, A., 250
 Mack, E. H., 76
 Mack, J. F., 249
 Mack, J. W., 65
 Mack, Miss M. E., 281
 Mackay, A. E., 99
 Mackay, Miss A. M., 291
 Mackay, E., 113
 Mackay, Miss H., 175
 Mackay, H. J. H., 153, 157
 Mackay, H. M., 210
 Mackay, I. A., 291
 Mackay, J. H., 118
 Mackay, J. J., 284
 MacKay, J. R., 95
 Mackay, J. Y., 284
 Mackay, K. G., 291
 MacKavangh, T. J., 328
 MacKee, A., 305
 MacKee, G. M., 235
 MacKee, R. H., 235
 Mackellar, D. J., 107
 Macken, Mrs. M. M., 85
 Mackenzie, A. H., 304
 Mackenzie, A. S., 112
 Mackenzie, C. J., 290, 291
 Mackenzie, D. S., 96
 Mackenzie, H., 340
 Mackenzie, Lt.-Col. H. H., 131
 Mackenzie, H. W. G., 167
 Mackenzie, J. A. P., 188
 Mackenzie, J. E., 92
 Mackenzie, J. J., 254, 310
 Mackenzie, K. A. J., 98, 99
 Mackenzie, K. J. J., 48
 Mackenzie, Miss L., 81
 Mackenzie, M. A., 309
 Mackenzie, W. D., 117
 Mackenzie, W. R., 287
 Mackenzie, W. T., 284
 Mackey, J. E., 212
 Mackie, J. D., 284
 Mackie, T. J., 58
 Mackie, W. W., 25
 Mackimmie, A. A., 10
 Mackinder, Sir H. J., 152
 Mackinnon, C. N., 12
 Mackinnon, Miss D. L., 157
 Mackinnon, J., 91
 Mackinnon, J. G., 319
 Mackinnon, J. L., 107
 Mackintosh, A., 2
 Mackintosh, A. B., 224
 Mackintosh, C. T., 231
 Mackintosh, H. R., 95
 Mackintosh, H. W., 83
 Mackintosh, J., 91
 Mackintosh, R., 207
 Mackintosh, W. A., 37
 Macklin, C. C., 15, 269
 Macklin, T., 203
 MacLacllan, W. W. G., 269
 MacLagan, His Hon. Sir E., 129
 MacLagan, E. R. D., 179
 MacLaren, Hon. Mr. Justice, 311
 MacLaren, M., 274
 MacLaurin, R. D., 291
 Maclean, M., 107
 MacLennan, S. F., 248
 Macleod, 272
 Macleod, A., 2
 Macleod, J. J. R., 209, 312
 MacLeod, J. M. H., 170, 176
 Macloskie, G., 274
 MacMahon, C., 166
 MacMahon, Major P. A., 188, 192
 MacMechan, A., 112, 113
 Macmillan, C., 219
 Macmillan, M., 29
 Macmillan, W. D., 63
 Macmillan, W. M., 126
 MacMurray, A., 136
 Macmurray, J., 206
 Macnamara, E. D., 170
 MacNaughton, E., 211
 Macnaughton, P., 94
 MacNeill, H. L., 36, 37
 MacNeill, J. G. S., 85
 MacNeill, M., 112, 113
 MacNider, W. de B., 61
 MacNutt, B., 27
 Macphail, A., 266
 MacPherson, A. T., 8
 Macqueen J., 158
 MacRae, D. A., 112, 113
 Macrae, L., 262
 Macran, H. S., 83
 Mactaggart, Miss C. S., 162
 MacTaggart, J. S., 274
 Macurdy, G. H., 271
 MacWilliam, J. A., 2
 Madan, B. K., 299
 Maddan, Miss E. P., 199
 Madden, J. T., 237
 Madden, J. W., 77, 246
 Maddison, Isabel, 40
 Madigan, P. S., 323
 Madin, W. T., 29
 Madras, the Governor of, 204
 Madson, B. A., 24
 Magee, J. D., 237
 Magee, W. E., 237
 Magennis, A. J., 79
 Magennis, W., 85
 Magie, D., 272
 Magie, W. F., 272, 274
 Magnus, Sir P., 147, 160
 Magnuson, J. S., 120
 Magolfin, R. V. D., 14
 Magrath, J. R., 257
 Magro, Hon. E., 321
 Magruder, W. T., 77
 Mahaffy, R. P., 183
 Mahan, C. H., 324
 Mahieu, R. G., 137
 Mahon, R. B., 102
 Mahanti, P., 45
 Mahlen, J. H., 306, 307
 Mailliot, A., 221
 Mailhouse, M., 229
 Main, A., 284
 Mair, A., 144
 Mair, A. W., 91
 Mair, Mrs., 162
 Mairet, G., 163
 Mairs, T. I., 302
 Maisch, A. F., 197
 Maitra, C. B., 43
 Maitra, K. M., 133
 Maitra, S. M., 294
 Major, R. H., 137
 Major-Stevenson, Mrs. I. C., 156
 Makins, Sir G. H., 167
 Makower, W., 206
 Malcolm, A. J., 157
 Malcolm, J., 87
 Malcolm, R., 196
 Maldeis, H. J., 16, 17
 Malden, H. E., 112, 193
 Malherbe, D. F. du T., 272
 Malherbe, W. E., 304
 Mall, F. P., 17
 Mallory, F. B., 54
 Mallory, W. J., 326
 Malone, P., 222
 Malone, T. H., 225
 Maltby, Miss M. E., 234
 Manchester, F., 201
 Manchester, Miss, 199
 Mandel, A. R., 237
 Mandel, J. A., 237
 Mangan, T., 103
 Mangan, T. J., 6
 Manges, M., 237
 Mangham, S., 89
 Manghirmalani, N. L., 299
 Manghirmalani, T. L., 126
 Mangum, C. S., 61
 Manby, J. J., 259
 Manly, J. M., 63
 Manley, L. K., 268
 Mannohan, L., 131
 Mann, A., 325, 332
 Mann, A., jr., 216
 Mann, A. H., 46
 Mann, A. R., 124, 125
 Mannan, M. A., 44
 Mannhardt, F. X., 286
 Manning, E. T., 142
 Manning, H. P., 275
 Manning, I. H., 61
 Manning, W. A., 308
 Manry, J. C., 8
 Manseau, C., 221, 222
 Manson, E. S., jr., 76
 Manson, Sir P., 170, 176
 Manson-Eaker, P. H., 176
 Manthey-Zorn, O., 9
 Mantoux, P. J., 151
 Manwaring, W. H., 300
 Many, N. V., 277
 Many, V., 221
 Maquire, F. S., 324
 Maquire, J. R., 212
 Marbury, C. C., 324
 Marceau, E., 278
 March, F. A., jr., 90
 March, H. W., 202
 Marchant, E. C., 258
 Marchant, E. W., 145
 Marcon, C. A., 255
 Marey, W. L., 11
 Marden, C. C., 272
 Marden, T. B., 16
 Mardis, S. K., 12
 'Mardle, J. S., 85
 Mardling, C. R., 160
 Maret, R. R., 255, 256, 257
 Margetson, A. J., 162
 Margoliouth, D. S., 256, 258
 Margoliouth, H. M., 156
 Margolis, M. L., 265
 Marine, D., 68
 Mark, E. L., 53, 56
 Mark, H. T., 203
 Markle, D. L., 303
 Marks, H. J., 306
 Marks, J., 206
 Marks, L. S., 55
 Marlatt, Miss A. L., 201
 Marlatt, C. L., 334
 Marler, W. de M., 219
 Marlow, F. W., 310
 Marnock, J., 2
 Marois, A., 278
 Marot, T., 222
 Marquand, A., 272
 Marquard, W. B., 90
 Marquardt, C. F., 302
 Marquis, F. W., 77
 Marr, Col. E. H., 13
 Man, J. E., 47
 Marriott, G. L., 29
 Marriott, J. A. R., 260
 Marriott, W. M., 288
 Marsan, M. I. J. A., 135
 Marsan, A., 221
 Marsden, Z., 340
 Marsden, H., 145
 Marsden, Miss M. E., 162
 Marsden, P. H., 145, 146

- Marsden, R. R., 115
 Marsden, W. A., 177
 Marsh, F. S., 51, 157
 Marsh, G. L., 63
 Marsh, J. E., 257
 Marsh, S., 162
 Marshall, Mrs. A. G., 223
 Marshall, C. J., 172
 Marshall, C. R., 2
 Marshall, Lt.-Col. D. G., 93
 Marshall, E. K., jr., 288
 Marshall, E. W., 270
 Marshall, F. H., 51
 Marshall, F. H. A., 48, 50
 Marshall, G., 168
 Marshall, G. A. K., 181
 Marshall, I. D., 212
 Marshall, J. P., 33, 35
 Marshall, J. T., 207
 Marshall, J. W., 3
 Marshall, L., 239
 Marshall, L. C., 62, 65
 Marshall, W. B., 331
 Marshall, W. S., 201
 Marshman, J. T., 302
 Marston, O. J., 196
 Martel, C., 334
 Martin, A., 95
 Martin, A. E., 302
 Martin, C. A., 105, 125
 Martin, C. B., 248
 Martin, C. F., 219
 Martin, C. J., 150, 175
 Martin, C. T., 233
 Martin, E. J., 70
 Martin, E. K., 171
 Martin, Miss E. N., 298
 Martin, E. W., 300
 Martin, F., 16
 Martin, Capt. F. J., 127
 Martin, H., 133
 Martin, H. M., 142
 Martin, J. T., 246
 Martin, L. H., 226
 Martin, O. R., 141
 Martin, P., 274
 Martin, P. A., 300
 Martin, R., 245
 Martin, R. F., 179
 Martin, R. W., 270
 Martin, S. A., 90
 Martin, S. H. C., 148
 Martin, T. C., 326
 Martin, W., 234
 Martin, W. H., 303
 Martindale, Miss N., 11
 Martindell, E. W., 191
 Martineau, C. E., 29
 Martzoff, C. L., 12
 Marvel, F. W., 275
 Marvin, A., 95
 Marvin, C. F., 333
 Marx, A., 239
 Marx, C. D., 300
 Marx, G. H., 300
 Masaryk, T. G., 157
 Mascarenhas, J. C., 163
 Maskelyne, A. St. J. S., 183
 Masker, W. A., jr., 328
 Mason, D. G., 232
 Masson, D. O., 213
 Mason, D. T., 24
 Mason, Elizabeth C., 18
 Mason, Miss E. S., 247
 Mason, Miss I., 199
 Mason, J. A., 66
 Mason, J. F., 122
 Mason, J., 228
 Mason, M., 201
 Masson, O., 306
 Mason, Miss R. E. C., 30, 31, 317
 Mason, T. W., 302
 Mason, W., 145
 Mason, W. F., 296
 Mason, W. P., 315
 Mast, S. O., 14
 Masterman, J. C., 269
 Massey, L. M., 125
 Massey, R. E., 127
 Massillamoni, A. D., 205
 Masson, D., 221
 Masson, H. J., 236
 Masson, I., 156
 Matheny, W. A., 12
 Mather, F. J., 272
 Mather, S., 67
 Mather, T., 161, 165
 Mathers, F. C., 31
 Mathers, J. G., 329
 Mathers, R. P., 284
 Matheson, D. C., 95
 Matheson, E. G., 322
 Matheson, F. W., 260
 Matheson, P. E., 258
 Matheson, R., 125
 Mathews, E. B., 14
 Mathews, G. B., 19
 Mathews, G. M., 192
 Mathews, J. M., 318
 Mathews, S., 14, 62, 64
 Mathewson, C. H., 228
 Mathewson, L. C., 115
 Mathur, P. L., 133
 Matims, Sir G. H., 167
 Matson, R. C., 99
 Matson, R. W., 99
 Matthew, Dorothy G., 149
 Matthew, E., 93
 Matthew, W. D., 240
 Matthai, G., 130
 Matthews, B., 232
 Matthews, B. E., 173
 Matthews, C. G., 12
 Matthews, D. J., 282
 Matthews, Mrs. D. J., 283
 Matthews, E. R., 151, 155
 Matthews, F. S., 235
 Matthews, G. M., 291
 Matthews, H. B., 204
 Matthews, J. H., 201
 Matthews, J. R., 159
 Matthews, R., 125
 Matthews, S. W., 322
 Matthews, W. R., 156, 157
 Mattingly, H., 178
 Mattinson, J. H., 344
 Mattison, F. C. E., 197
 Mattison, R. V., 265
 Matzinger, H. G., 42
 Mauchly, S. J., 339
 Maudslay, A. P., 187
 Maudsley, Sir H. C., 212
 Manlick, P. N., 133
 Maur, R. F., 135
 Maurault, Abbe O., 221
 Maurer, E. R., 202
 Maurice-Carton, F. I., 212
 Mawer, A., 89
 Mawson, Sir D., 4
 Mawson, J. H., 144
 Mawson, S., 155
 Maxey, C. L., 341
 Maxey, E., 141
 Maxon, W. R., 331, 336
 Maxwell, Miss C. E., 83
 Maxwell, E., 222
 Maxwell, Miss J., 30
 Maxwell, Miss L., 31
 Maxwell, L. A. I., 213
 May, C. E., 31
 May, D. W., 210
 May, Miss M. G., 2
 Mayall, R. H. D., 51
 Mayer, A. G., 314
 Mayer, E. E., 269
 Mayer, R. E., 235
 Mayfield, G. R., 225
 Maynard, Hon. Sir H. J., 129
 Maynard, L. A., 125
 Maynard, W. H., 114
 Mayo, G. E., 37
 Mayor, J., 309
 Mayrand, R., 278
 Mazhar, M., 44
 McAdie, A. G., 53, 56
 McAlister, E. H., 99
 McAlpine, A. N., 108
 McAlpine, E. G., 224
 McArthur, L. E., 325
 McAtee, W. L., 337
 McAulay, A., 118
 McBain, H. L., 232
 McBain, J. W., 39
 McBrady, R., 309, 312
 McBride, C. G., 303
 McBride, W. L., 137
 McBryan, T., 103
 McCabe, D. A., 273
 McCabe, W., 225
 McCaffery, R. S., 202
 McCaleb, Miss E., 271
 McCall, R. A., 148
 McCall, W. A., 233
 McCallister, W. J., 22
 McCallum, H. A., 195
 McCambell, E. F., 76
 McCandlish, D., 140
 McCandlish, L. C., 268
 McCarthy, C. H., 328
 McCarthy, F. P., 211
 McCarthy, H. D., 17
 McCarthy, J. B., 342
 McCarthy, J. F., 235
 McCarthy, J. J., 323
 McCarthy, J. P., 37
 McCarty, L. B., 136
 McCarty, Stella, 18
 McCarty, W. J., 34
 McCaughey, W. J., 75, 77
 M'Caw, A. E., 1071
 McCay, Lieut.-Col. D., 46
 McCay, L. W., 274
 McClanahan, H. M., 142, 259
 McClean, H. J., 197
 McCleary, S., 16
 McClellan, G. B., 272
 McClelland, J. A., 85, 87, 182
 McCleneghan, S., 251
 McClenahan, H., 272, 274
 McClenahan, W. S., 254
 McClintock, J. T., 121
 McClure, C. F. W., 274
 McClure, O. E., 12
 McClure, W. K., 274
 McCoard, G. W., 75
 McColleston, L. S., 210
 McCollum, E. V., 15
 McComas, H. C., 274
 McConaughy, J. L., 102
 McConn, C. M., 317
 McConnell, A. W., 310
 McCook, Rev. J. J., 116
 McCord, Miss J. L. V., 329
 McCorkell, E. J., 309, 312
 McCormac, E. I., 23
 McCormick, J., 250
 McCormick, P. J., 197, 328
 McCormick, R. L., 308
 McCormick, S. B., 268
 McCormick, Sir W. S., 182
 McCourt, T. A., 286
 McCourt, W. E., 287
 McCoy, G. W., 197, 336
 McCoy, J., 237
 McCoy, J. C., 237
 McCoy, J. D., 198
 McCoy, J. R., 198
 McCoy, T. J., 197
 McCracken, C. C., 75
 McCracken, Miss M. I., 300
 McCrea, N. G., 232
 McCrea, R. C., 232
 McCready, J. H., 269
 McCready, H. M., 305
 McCrimmon, A. L., 313
 McCrudden, F. H., 211
 McCullam, G. B., 247
 McCulloch, E. A., 312
 McCulloch, H. M., 37
 McCulloch, J. D., 95
 McCullough, J. C., 249
 McCully, B., 276
 McCurdy, J. C., 125
 McCurdy, S. L., 270
 McCusker, C. J., 99
 McDaniel, A. B., 325
 McDermott, G. R., 125
 McDiarmid, R. J., 254
 McDonald, H. K., 113
 McDonald, J., 287
 McDonald, J. G., 31
 McDonald, Miss M. B., 302
 McDonald, S., 89
 McDonald, J. H., 23
 McDonald, W. J., 121
 McDonnell, R. A., 229
 McDonough, V. S., 324
 McDougall, D. G., 118
 McDougall, G. W., 219
 McDougall, R. S., 92
 McDougall, W., 193, 256, 259
 McDougall, W. B., 218
 McDowall, A. S., 258
 McDowell, J. E., 299
 McDowell, M. S., 302
 McEachran, J. M., 97
 McElherry, R. K., 103
 McElfresh, C. W., 16
 McElfresh, W. E., 341
 McElroy, B. L., 80
 McElroy, R. McN., 372
 McElwain, Miss M. B., 247
 McEwen, E. M., 121
 McEwen, R. S., 249
 McFadyean, Sir J., 151, 158, 189
 McFall, J. E. W., 146
 McFarland, J. M., 326
 McFarland, B. S., 229
 McFarland, F. S., 317

INDEX TO NAMES

- McFarland, F. M., 300
 McFarlane, C. T., 232
 McFarlane, J., 2
 McGahey, Florence I., 141
 McGannon, M. C., 225
 McGehee, W. H. O., 68
 McGehee, L. P., 61
 McGhee, J., 107
 McGibbon, D. M., 97
 McGiffert, A. C., 239
 McGiffert, J., 316
 McGilhiray, H. I., 62
 McGill, J. T., 225
 McGilvary, E. B., 201
 McGilvray, C. D., 312
 McGinnis, C. S., 102
 McGlannan, A., 16
 McGlashan, H. D., 329
 McGlone, B., 16
 McGlumphy, C. B., 121
 McGloun, A., 219
 McGovney, D. O., 121
 McGowan, J., 310
 McGowan, J. P., 94
 McGraw, Sir J., 84, 86
 McGregor, Miss E. A., 314
 McGregory, J. F., 114
 McGuisan, H. A., 319
 McGuire, E. R., 42
 McGuire, J. C., 320
 McIlwaine, L., 235
 McIlwain, C. H., 53
 McIlwraith, K. C., 310
 McInerney, T. J., 125
 McInnes, W., 254
 McIntosh, A. C., 61
 McIntosh, D., 322
 McIntosh, D. S., 113
 McIntosh, R. D., 312
 McIntosh, W. C., 192
 McIntyre, 313
 McIntyre, Miss C. F., 134
 MacIntyre, G., 106, 107
 McIntyre, J. L., 2
 McIntyre, L. W., 263
 McKay, H. S., 286
 McKay, R., 175
 McKechnie, R. E., 322
 McKechnie, W. S., 106
 McKee, A. B., 301
 McKee, S. J., 36
 McKeever, W. A., 136
 McKelvy, E. C., 337
 McKenna, C. M., 320
 McKennan, T. M. T., 269
 McKenzie, J., 32
 McKenzie, K., 317
 McKewen, P. W., 310
 McKergow, C. M., 219
 McKerron, R. G., 2
 McKibben, P. S., 195
 McKie, G. McF., 61
 McKiel, H. W., 233
 McKimmie, O. A. M., 326
 McKinlay, P. G., 231
 McKinna, J., 177
 McKinney, J., 313
 McKnight, G. H., 75
 McLachlan, H., 206
 McLagan, W., 264
 McLaren, W. W., 341
 McLaughlin, A. C., 63
 McLaughlin, A. R., 197, 277
 McLaughlin, G. R., 12
 McLaughlin, J. F., 309
 311
 McLaughlin, R. G., 208
 McLaury, H. L., 279
 McLay, W. S. W., 313
 McLean, Major F. R., 233
 McLean, J. A., 322
 McLean, K. S., 80
 McLean, N., 48, 50
 McLean, R. C., 60
 McLeerie, J., 279
 McLennan, E. I., 213
 McLennan, J. C., 309
 McLeod, Miss C. T., 12
 McLeod, J., 107
 McLeod, N., 270
 McLoughlin, P. J., 328
 McLouth, L. A., 236
 McLucas, V. R., 197
 McMahon, J., 122
 McMahon, J. E., 274
 McMartin, C., 251
 McMaster, L. R., 287
 McMenemy, M., 285, 286
 McMillan, C., 274
 McMillan, D., 58
 McMillan, R. H., 166
 McMillan, W. H., 248
 McMullen, J. A., 288
 McMullin, S. T., 286
 McMullen, W. H., 174
 McMurray, F. K., 202
 McMurray, O. K., 25
 McMurrich, J. P., 309
 McMurry, 142
 McMurry, F. M., 232
 McMurry, N. L., 203
 McMurry, J. G., 74
 McNally, R. F., 287
 McNair, A. D., 49
 McNair, A. J., 168
 McNairn, N. H., 313
 McNaught, H. Y., 301
 McNeal, E. H., 75
 McNece, J. W., 106, 171
 McNeil, A., 238
 McNeil, G., 196
 McNeil, H. C., 325
 McNeile, H. A., 84
 McNeile, L. G., 197
 McNeill, J., 85
 McNeilly, R. H., 225
 McNowen, W. C., 138
 McPeck, C., 77
 McPhedian, A., 310
 McPhee, Miss M., 143
 McPherson, W., 75
 McPhie, D., 107
 McRae, J., 212
 McRae, W., 71
 McRoberts, R. H., 238
 McRow, T., 189
 McSwaney, E. P., 78
 McTaggart, D. D., 219
 McTaggart, J. McT. E., 50
 McWhood, L. B., 115
 McWilliam, P. A., 231
 McDonald, A., 107
 Mead, A. D., 275
 Mead, A. R., 80
 Mead, C. D., 26
 Mead, C. W., 240
 Mead, D. W., 202
 Mead, E., 24
 Mead, G. H., 63
 Mead, S. V., 326
 Mead, W. E., 216
 Mead, W. J., 201
 Meader, F. D., 309, 312
 Meaker, A. E., 26
 Meakins, J., 92
 Meakins, J. C., 92
 Meara, F. S., 123
 Mears, B., 341
 Mechem, P. R., 65
 Mecklin, J. M., 268, 269
 Medlar, A. W., 142
 Medley, D. J., 105
 Meek, A., 89
 Meek, Miss E. B., 302
 Meck, H., 195
 Meek, W. J., 201
 Meeks, E. V., 125, 230
 Meenan, J. N., 85
 Megular, Miss E. C., 137
 Mehrrens, H. G., 301
 Mehta, B. D., 45
 Mehta, V. M., 27
 Meier, H. L., 252
 Meiklejohn, A., 9, 10
 Meiklejohn, R., 77
 Meinzer, O. E., 329
 Melander, A. D., 276
 Melbourne, A. C. V., 37
 Melhuish, Miss S., 151, 160
 Mellanby, A. L., 197
 Mellanby, E., 169
 Mellanby, J., 167
 Melland, C. H., 207
 Mellane, S. H., 207
 Meller, H. E., 268, 269
 Melotte, P. J., 180
 Melville, C. E., 343
 Melvin, F. E., 136
 Melvin, G. S., 2
 Mendel, L. B., 229
 Mendell, C. W., 228
 Mendenhall, F. E., 201
 Menig, O., 276
 Menne, P. R., 99
 Mennell, 167
 Mensching, J. E., 104
 Mensel, E. H., 247
 Menzies, G. K., 185
 Menzies, A. W. C., 274
 Menzies, J. A., 89
 Meras, A. A., 233
 Mercer, A. J., 50
 Mercer, W. F., 12
 Mercieca, A., 321
 Mercier, A., 221
 Mercier, L. J. A., 54
 Mercil, A., 278
 Meredith, E. W., 269
 Meredith, H. O., 21, 22
 Meredith, Hon. Sir W. R., 308
 Merewether, Sir E., 146
 Merfield, C. J., 298
 Mergendahl, T. E., 211
 Merigold, B. S., 343
 Merrett, W. H., 165
 Merriam, C. E., 63
 Merriam, H. G., 217
 Merriam, J. C., 23
 Merriam, W. H., 280
 Merrick, S. K., 16
 Merrifield, F., 64
 Merrill, A. S., 217
 Merrill, E. T., 63
 Merrill, G. E., 25
 Merrill, G. P., 331
 Merrill, L. H., 253
 Merrill, L. S., 252, 253
 Merrill, R. W., 262
 Merrill, W. A., 23
 Merriman, Rt. Hon. J. X., 58
 Merriman, P. J., 78
 Merriman, R. B., 53
 Merriman, R. W., 168
 Merrin, A. H., 213
 Merritt, A. H., 234
 Merritt, A. K., 227
 Merritt, E. G., 122
 Merry, Capt. A. G., 233
 Merry, G. N., 120
 Merton, T. R., 113
 Merwe, C. D., 304
 Meschter, C. K., 27
 Messervey, A. B., 115
 Mess, C. J., 325, 326
 Messenbaugh, J. F., 246
 Messer, W. S., 115
 Metcalf, C. L., 76
 Metcalf, T. N., 249
 Metcalf, W., 24
 Metcalfe, E. P., 224
 Metcalfe, O. K., 293
 Metivier, J., 343
 Metz, C. W., 72
 Newton, W. A., 215
 Meyer, A., 14, 237
 Meyer, A. H., 277
 Meyer, A. L., 15
 Meyer, A. W., 300
 Meyer, F. A., 250
 Meyer, Miss F. A., 77
 Meyer, H. H. B., 334
 Meyer, J. J., 64
 Meyer, K. A., 320
 Meyers, J. T., 142
 Meylan, G. L., 232
 Michaud, Miss R., 247
 Michael, A., 53
 Michael, J. H., 311
 Michell, R. B., 202
 Michelli, P. J., 176
 Michelson, A. A., 63, 262
 Michelson, T., 325, 322, 337
 Michie, J. L., 37
 Mickel, C. E., 142
 Mickey, C. E., 141
 Mickle, N., 148, 262
 Middlebush, F. A., 102
 Middlemass, J. E., 89
 Middleton, A. E., 180
 Middleton, P. G., 213
 Middleton, W. S., 203
 Midha, S. D., 133
 Midjo, C., 125
 Mierow, C. C., 74
 Miers, Sir H. A., 182, 205, 206, 208, 255
 Mifsud, A., 321
 Mifsud, C., 321
 Mignault, D., 220
 Mignault, Hon. Mr. Justice P. B., 219
 Mignault, G., 221
 Miles, A., 93
 Miles, E. J., 229
 Miles, J. C., 257, 259
 Miles, T. H., 324
 Milham, W. L., 341
 Milks, H. J., 124
 Mill, J., 92
 Millar, A. V., 201, 202
 Millar, E. G., 177
 Millar, J. H., 91
 Millar, W. N., 310
 Millen, F. E., 111
 Miller, A., 5
 Miller, Miss A. E., 247
 Miller, A. F., 314
 Miller, Addie L., 262
 Miller, A. W., 265
 Miller, B. L., 27
 Miller, Mrs. B. A., 249

- Miller, C. H., 169
 Miller, C. S., 270
 Miller, C. W. E., 14
 Miller, D., 107
 Miller, D. C., 70
 Miller, D. S., 238
 Miller, D. W., 277
 Miller, E. A., 248
 Miller, F. J., 63
 Miller, F. K., 195
 Miller, G. A., 317
 Miller, G. B., 326
 Miller, G. S., jr., 331
 Miller, H. A., 249
 Miller, H. C., 107
 Miller, H. L., 202
 Miller, J., 93, 107
 Miller, J. A., 234
 Miller, J. E., 217
 Miller, Hon. J. J., 270
 Miller, J. K., 268, 269
 Miller, J. M., 98
 Miller, N. C., 303
 Miller, P. T., 134
 Miller, R. B., 80
 Miller, R. T., 269
 Miller, S. N., 105
 Miller, S. O., 233
 Miller, S. R., 15
 Miller, T., 93
 Miller, W. J., 247
 Miller, W. L., 309
 Miller, W. S., 203
 Miller, W. de W., 240
 Milligan, F. P., 94
 Milligan, G., 104, 106
 Milligan, H. N., 180
 Milligan, Sir W., 207
 Millikan, C. E., 197
 Millikan, R. A., 63
 Milliken, S. M., 242
 Mills, H. A., 63
 Mills, Hon. A. R., 127
 Mills, C. H., 201
 Mills, H. E., 271
 Mills, T. E., 250
 Mills, T. R., 284
 Mills, W. H., 50
 Mills, W. C., 77
 Millsbaugh, C. F., 67
 Milne, F. M., 284
 Milne, H. J. M., 177
 Milne, Miss J. J., 29
 Milne, J. R., 92
 Milne, L. S., 137
 Milne, R., 169
 Milne, W. E., 99
 Milne, W. P., 140
 Milner, S. R., 293
 Milner, Viscount, 146, 258
 Milner, W. S., 309
 Milroy, J. A., 22
 Milroy, T. H., 22
 Milroy, W. P., 142, 251
 Milsam, J. N., 128
 Milward, J. G., 203
 Mims, E., 224
 Minchin, H. D., 75
 Miner, H. S., 242
 Miner, M. A., 320
 Miner, R. W., 240
 Minet, W., 184
 Mingana, A., 206
 Minns, E. H., 48
 Minor, J. R., 15
 Minor, R. C., 324
 Minor, R. S., 23
 Minot, G. R., 53
 Minshall, E., 163
 Minshall, R. E., 303
 Misener, G., 97
 Misken, W., 344
 Miskovsky, L. F., 249
 Misner, E. G., 125
 Mitchell, A. A., 106
 Mitchell, A. C., 96, 181
 Mitchell, D. T., 252
 Mitchell, E. K., 117
 Mitchell, G. I., 268
 Mitchell, G. J., 202
 Mitchell, G. W., 16
 Mitchell, H. B., 234
 Mitchell, H. G., 210
 Mitchell, H. H., 319
 Mitchell, H. P., 179
 Mitchell, J. H., 212
 Mitchell, J. P., 300
 Mitchell, Miss M. J., 245
 Mitchell, R. L., 17
 Mitchell, R. B., 107
 Mitchell, R. M., 270
 Mitchell, R. McB., 275
 Mitchell, R. V., 276
 Mitchell, S. K., 228
 Mitchell, Sarah L., 66
 Mitchell, P. C., 184, 187
 Mitchell, P. H., 275
 Mitchell, U. G., 137
 Mitchell, W., 3, 4
 Mitcheson, A. T., 149
 Mitman, C. W., 331
 Mitra, J. N., 81
 Mitra, M. N., 45
 Mitra, N. B., 8
 Mitter, P. C., 43
 Mittra, C., 263
 M'Kenzie, A., 284
 M'Loughlin, E. P., 85
 M'Neil, A., 92
 M'Neil, C., 93
 Moberley, W. H., 258
 Mode, P. G., 64
 Moe, G. G., 322
 Moehلمان, C. H., 282
 Moenkhaus, W. J., 30
 Moerk, P. X., 265
 Moffitt, E. L., 302
 Mohan, M., 263
 Mohler, J. R., 333
 Moleworth, E. H., 306
 Mollett, C. E., 217, 218
 Mollison, C. H., 213
 Mollison, W. L., 46, 49
 Mollinson, W. M., 168
 Molony, W. R., 198
 Moloney, H. J., 77
 Monahan, Hon. F. J., 45
 Monckton, H. W., 185
 Moncur, G., 107
 Mond, R. L., 194
 Mondle, D., 45
 Mondle, J. C., 45
 Monk, G. S., 99
 Monks, G. H., 54
 Monnet, J. C., 246
 Monnett, V. E., 245
 Monro, T. K., 105
 Monroe, B. S., 123
 Monroe, P., 232
 Monroe, W. S., 318
 Monsarrat, K. W., 145
 Mensch, Miss H., 125
 Montague, F. C., 155, 257
 Montague, W. P., 234
 Monteith, J. C., 100
 Montgomery, C. C., 197
 Montgomery, E. G., 124
 Montgomery, G. R., 228
 Montgomery, J., 144
 Montgomery, J. A., 241
 Montgomery, J. H., 196
 Montgomery, L. M., 76
 Montgomery, Lt. E., 252
 Montgomery, R. H., 232
 Montillon, E. D., 125
 Montpetit, E., 220, 221, 222, 278
 Moodie, R. L., 320
 Moody, Bertha M., 56
 Moody, G. T., 147
 Moog, W. T., 247
 Mookerji, R., 224
 Mooney, J., 332
 Moore, A. B. J., 219
 Moore, A. E., 78, 209
 Moore, A. W., 63
 Moore, B., 190
 Moore, B. F., 143
 Moore, B. F., 136
 Moore, C. H., 113, 334, 336
 Moore, C. H., 53
 Moore, D. R., 249
 Moore, Miss E., 137
 Moore, E. C., 55
 Moore, E. H., 63
 Moore, E. J., 42
 Moore, E. S., 301, 303
 Moore, F. C., 207
 Moore, F. D., 320
 Moore, F. G., 232
 Moore, G. E., 48
 Moore, G. F., 55
 Moore, G. T., 288, 289
 Moore, H. F., 318
 Moore, H. L., 233
 Moore, H. T., 115
 Moore, J. B., 235
 Moore, J. G., 202
 Moore, J. H., 34, 223
 Moore, J. L., 166, 271
 Moore, J. P., 266
 Moore, J. W., 225
 Moore, Miss M., 253
 Moore, Miss M. E., 12
 Moore, R., 95
 Moore, R. A., 202
 Moore, R. C., 137
 Moore, R. W., 114
 Moore, T. S., 98, 159
 Moore, U., 235
 Moore, V. A., 124
 Moore, W. C., 15, 326
 Moore, W. H., 212
 Moore, W. L., 325
 Moorees, A., 304
 Moorehead, F. B., 317, 320
 Moorey, C. B., 76
 Moorison, Lt.-Col. H. W., 188
 Moorman, L. J., 246
 Moorty, N. N., 224
 Moorow, J., 89
 Moos, N. A. F., 31
 Moot, A., 6
 Mordell, L. J., 159
 More, A., 180
 More, R. P., 27
 Moreau, G., 220
 Morecroft, J. H., 235
 Morehouse, D. W., 82
 Moreno, H. C., 300
 Moreton, A. L., 166
 Morey, L., 317, 318
 Morey, C. R., 272
 Morgan, A. E., 100
 Morgan, Miss A. F., 23
 Morgan, Miss A. H., 297
 Morgan, A. M., 4
 Morgan, C. L., 38
 Morgan, D. J., 3
 Morgan, E. M., 229
 Morgan, F. G., 213, 214
 Morgan, F. M., 115
 Morgan, G. T., 28
 Morgan, H. W., 225
 Morgan, J. H., 150, 155, 162
 Morgan, J. J., 235
 Morgan, J. L. R., 233
 Morgan, L. N., 245
 Morgan, O. S., 235
 Morgan, P. G., 341
 Morgan, R. F., 42
 Morgan, R. R., 136
 Morgan, S. W., 273
 Morgan, T. H., 233
 Morgan, V., 197
 Morgan, W., 39, 60, 128
 Morgan, W. G., 323, 338
 Morgulis, S., 251
 Moriarty, G. P., 49
 Morice, F. D., 257
 Morin, J. L., 219
 Morin, L. J. S., 278
 Morin, S., 221
 Morin, V., 221, 254, 278
 Morison, C. G. T., 257
 Moritz, S., 207
 Morize, A., 54
 Morley, Miss E. J., 280
 Morley, F., 14, 168, 243
 Morley, G. H., 28
 Morley, H. F., 170, 184
 Morley, J., 207
 Morley, Rt. Hon. Viscount, 205, 208
 Morley, S. G., 23
 Morley, W., 215
 Morrall, W. B., 101
 Morrill, A. D., 71
 Morris, C. C., 75
 Morris, C. T., 77
 Morris, G. D., 30
 Morris, G. G., 49
 Morris, J. L., 68
 Morris, J. T. MacG., 163
 Morris, Miss M. B., 339
 Morris, O. M., 276
 Morris, R., 13
 Morris, R. P., 163
 Morris, S., 20
 Morris, V., 99
 Morris, W. A., 23
 Morris, Airey H., 89
 Morrison, A., 104
 Morrison, A. C., 2
 Morrison, C. C., 142, 251
 Morrison, C. W., 248
 Morrison, D., 284
 Morrison, F. B., 203
 Morrison, H. A., 234
 Morrison, H. C., 65
 Morrison, I. F., 97
 Morrison, J. B., 219
 Morrison, J. G., 334
 Morrison, J. R., 89
 Morrison, J. T., 304
 Morrison, J. T. J., 29
 Morrison, R. L., 326
 Morrison, Sir T., 88
 Morrison, W. F., 143
 Morriss, Miss M. S., 297
 Morriss, Miss S. J., 203
 Morrow, J. M., 74
 Morrow, L. W., 245
 Morrow, L. W. W., 229
 Morse, A. E., 273
 Morse, A. H., 229

INDEX TO NAMES

- Morse, A. L., 211
Morse, B. T., 36, 37
Morse, F. W., 10
Morse, J. L., 54, 105
Morse, W. J., 253
Mortimer, G. B., 203
Morton, A. E., 163
Morton, A. H., 341
Morton, A. S., 291
Morton, C. A., 39
Morton, C. H., 184
Morton, D. W., 98, 100
Morton, J. R., 12
Morton, W. B., 22
Moschowitz, A. V., 234
Mosemiller, C. A., 30
Moser, C., 300
Moses, A. J., 235
Moses, S. T., 204
Mosher, C. D., 300
Mosher, H. P., 54
Moster, J. G., 319
Moss, C. E., 126
Moss, Miss L. B., 303
Moss, L. De G., 235
Moss, Miss M. T., 12
Moss, R. J., 86
Moss, W. L., 55
Mossier, R., 230
Motherwell, R. M., 254
Motley, E. T., 68
Mottten, R. H., 74
Mottter, M. G., 336
Mottier, C. M., 30
Moudy, R. B., 134
Moulton, C. W., 271
Moulton, F. R., 63
Moulton, H. G., 63
Moulton, The Rt. Hon.
 Lord, 46, 147
Moure, F. A., 308
Mounsey, J. L., 91
Mountcastle, H. W., 68
Mountford, J. F., 92
Mount, B., 259
Moxon, A. A., 290, 291
Moyer, I. J., 269
Moyle, J. B., 258
Moynihan, B. G. A., 140
Moyle, C. E., 218
Mozeley, J. R., 49
Mozumdar, K. C., 200
M'Quistan, D. B., 107
Muekle, J. T., 309
Muehmore, G. B., 123
Mudd, H. G., 288
Mudge, G. P., 169, 175
Mueeke, F. F., 169
Mueller, E. F., 339
Mueller, P. W., 313
Muhammad, D., 133
Muir, A. G., 94
Muir, J., 107
Muir, J. R., 206
Muir, R., 105
Muirhead, A. L., 250
Muirhead, J. H., 29
Mukarji, S. N., 81
Mukherjee, K. C., 256
Mukerjee, K. K., 263
Mukerji, K. K., 292
Mukerji, N., 13
Mukerji, N. C., 8
Mukerji, N. N., 292
Mukerji, S. C., 291
Mukerji, S. N., 81
Mukerji, V. A., 13
Mukhopadhyaya, Hon.
 Justice Sir A., 45, 46
Muldoon, W. E., 124
Mulford, W., 24
Mullaby, G. T., 168
Muller, C. E., 202
Muller, H. F., 233
Muller, R. T., 253
Mullin, R. H., 322
Mullins, G. W., 234
Mullins, E. Y., 199
Mullock, A., 38
Mumford, A. H., 207
Mumford, F. B., 75
Mumford, H. W., 319
Mumma, M. C., 120
Muncey, Miss E. B., 72
Mundy, Miss L., 143
Mungo, D. B., 106
Munro, A., 46, 50
Munro, D. C., 272
Munro, J. A. R., 258
Munro, M. J., 291
Munro, M. S., 211
Munro, R., 191
Munro, W. B., 53
Muntsch, A., 286
Murad, F. U., 6
Murch, H. S., 273
Murdoch, H. B., 92
Murdoch, J., 305
Murdoch, W. L. F., 264
Mursion, A. F., 155, 255
Murlin, L. H., 33
Murnaghan, F. D., 14
Murnaghan, J. A., 85
Murphy, B. E., 340
Murphy, C. J., 324
Murphy, Miss C. S., 163
Murphy, F. E., 137
Murphy, J. F. K., 324
Murphy, Miss M. C., 81
Murphy, T. A., 67
Murphy, V. J., 312
Murray, A. T., 299
Murray, D. A., 219
Murray, Major E. B.,
 229
Murray, E. W., 136
Murray, G. G. A., 256,
 269
Murray, The Hon. Sir
 G. J. R., 3
Murray, G. R., 207
Murray, H., 112, 113
Murray, J., 107, 173,
 259
Murray, J. A., 176
Murray, J. O. F., 51
Murray, S. J., 107
Murray, T. J., 277
Murray, W. C., 290
Murray, W. G. R., 57
Murray, W. H., 115, 312
Murrill, W. A., 244
Musbach, F. L., 203
Muse, B. P., 16
Mustard, J. H., 61
Mustard, W. P., 14
Mussehl, F. E., 142
Mussen, A. A., 145, 146
Mutch, N., 167
Muzzy, D. S., 233
M'Weeney, E. J., 85
M'Weeney, H. C., 85
Myers, A. J. W., 117
Myers, B. D., 30
Myers, C. E., 302
Myers, C. H., 124
Myers, Miss C. L., 69
Myers, C. S., 47, 49, 52
Myers, G. W., 63
Myers, H. B., 99
Myers, J. K., 207
Myers, J. L., 256, 258
Myers, J. S., 77
Myers, J. T., 251
Myers, R. E., 16
Myers, W., 209
Myers, W. I., 125
Myers, W. L., 120
Myers, W. S., 272
Myerson, A., 211
Myles, W. H., 92
Myrand, E., 254
Myszka, C. S., 25
Mysore, His Highness
 the Maharaja of, 223
Mysore, His Highness
 the Yuvaraja of, 223
Nabano, D., 174
Nadeau, E., 277
Nadeau, L. E., 278
Nag, K. C., 132
Nagant, M. H., 135
Nagel, D. H., 257, 259
Nagle, J. F., 237
Nahl, P. W., 23
Naik, K. P. U. U., 315
Nairne, A., 46, 50
Naish, A. E., 293
Naish, Mrs. L., 293
Naismith, J., 136
Nalder, F. F., 276
Nambiar, K. P. K., 315
Nambiar, K. R., 205
Nammaek, C. E., 123
Nance, F. J., 215
Nance, J. T., 23
Nand, L. S., 280
Nand, S., 131
Nanda, I. C., 133
Nanfan, F., 174
Nanjundayya, H. V.,
 223
Nanson, E. J., 212
Nantel, A., 278
Napier, T. B., 147
Narain, B., 133
Narain, C., 299
Narayanawami, V., 295
Nardin, Miss F. L., 202
Narey, Miss H. W., 297
Nariman, S. K., 31
Nash, Miss F. G., 249
Nash, G. V., 244
Nash, N. B., 55, 56
Nasini, R., 184
Nasmyth, H. D., 134
Nasou, A. H., 236
Nath, A., 299
Nath, B., 199
Nath, L. K., 81
Nath, P., 299
Natha, A., 10
Nathan, P. W., 237
Nauta, R. D., 53
Nayes, A., 273
Naylor, E. W., 51
Naylor, H. D., 4
Nazir, H., 44
Neal, H. V., 211
Neal, R., 289
Neale, J. E., 16
Neave, S. A., 181, 183,
 194
Nebel, W., 202
Needham, J. G., 122,
 124
Needler, G. H., 309
Neef, F. J., 115
Neethling, J. H., 304
Neff, F. H., 70
Neff, L. K., 237
Neff, T. L., 64
Neher, F., 274
Neil, C. E., 34
Neild, N., 39
Neilson, C. H., 286
Neilson, J., 290, 291
Neilson, Miss A., 297
Neilson, W. A., 247
Nelli, G., 222
Nelligan, R. F., 10
Neilson, A., 134
Neilson, B. C., 64
Neilson, C. A., 141
Neilson, Miss C. A., 80
Neilson, C. F., 137
Neilson, Miss E., 215
Neilson, E. W., 271, 333
Neilson, H. D., 312
Neilson, J. M., 234
Neilson, J. W., 24
Neilson, Miss L. A., 72
Neilson, Capt. J. J. H.,
 131
Neilson, N. C., 240
Neilson, S. B., 276
Nemec, C. J., 251
Nemiah, R. C., 115
Neser, C. P., 252
Nettleton, G. H., 228
Nettleton, H. R., 159
Neubauer, F. J., 316
Neuhaus, E., 23
Neuhoff, F., 286
Neuhoff, L. G., 288
Neumann, F., 337
Nevean, R., 221
Nevens, C. R., 211
Neveu, R., 277
Neville, K. P. R., 195
Nevels, W. C., 323
Nevin, A., 188
New, C. W., 36
Newall, H. F., 151, 186
Newbery, E., 58
Newbolt, G. P., 145
Newbury, Miss G. M.,
 37
Newby, E. R., 245
Newcomb, C. M., 80
Newcomb, R., 318
Newcomer, 272
Newell, F. H., 318
Newell, F. S., 54
Newell, L. C., 33, 35
Newham, H. B., 176
Newkirk, G., 197
Newland, H. S., 4
Newlands, W., 87
Newlin, W. J., 9
Newman, H. H., 63
Newman, W. L., 257
Newsholme, H. P., 167
Newstead, R., 145, 147
Newton, A. P., 151, 155,
 156
Newton, D. G., 293
Newton, E. A., 197
Newton, H. A. S., 213
Newton, H. C., 250
Newton, H. W., 180
Newton, Miss I., 193
Newton, P., 324
Newton, R. B., 178
New Zealand, His Ex-
 cellency the Governor-
 General of, 340
Nicc, L. B., 246
Nicholas, S. D., 28
Nicholas, T. C., 50
Nicholls, A. G., 113
Nicholls, J. R., 180
Nichols, E. F., 228

- Nichols, E. H., 54
 Nichols, E. L., 122
 Nichols, G. E., 228
 Nichols, H. J., 323
 Nichols, N. W., 67
 Nichols, J., 77
 Nichols, J. B., 326
 Nichols, J. T., 240
 Nichols, O. C., 24
 Nichols, Miss S. P., 249
 Nichols, W. H., 242
 Nicholson, A. L., 107
 Nicholson, C. M., 286
 Nicholson, E. B., 177
 Nicholson, Sir F. A., 204
 Nicholson, F. C., 93
 Nicolson, F. W., 216
 Nicholson, G. G., 305
 Nicholson, G. W., 163
 Nicholson, Miss H., 305
 Nicholson, J. A., 218
 Nicholson, J. S., 91, 105
 Nicholson, J. W., 151, 156, 157
 Nicholson, K. R., 43
 Nicholson, S. B., 262
 Nickles, J. M., 329
 Nicol, C. C. W., 249
 Nicol, J. W., 106
 Nicolet, B. H., 64
 Nicoll, M., jr., 237
 Nierengale, M., 39
 Nightingale, H. T., 120
 Niles, A. S., 17
 Nisbet, R. G., 105
 Nitze, W. A., 63
 Niven, C., 2, 181
 Nixon, E. L., 302
 Nixon, J. W., 282
 Nixon, W. F., 321
 Noakes, F., 170
 Noble, C. A., 23
 Noble, G. K., 240
 Noble, M. C. S., 61
 Nobbs, P. E., 219
 Noble, W. C., jr., 237
 Nock, T. C., 123
 Noe, A. C., 64
 Noel, L. G., 225
 Nolan, A. W., 319
 Nolan, E. J., 266
 Nolan, W. J., 250
 Nold, H. E., 77
 Nolen, W. F., 211
 Nolin, J., 221
 Noll, C. F., 302
 Noltling, E. L., 205
 Nordeen, C. E., 329
 Norie, J. C., 344
 Norman, C. A., 77
 Norman, H. J., 172
 Normand, C. W. B., 296
 Normenton, H., 87
 Norrie, Van H., 234
 Norris, C., 123
 Norris, E. T., 340
 Norris, J. W. C., 161
 Norris, R. V., 72
 Norris, F. de la Mare, 123
 Norsworthy, L. D., 326
 North, C. C., 76
 Northeroft, G., 169
 Northeroft, H., 169
 Northrup, H. B., 303
 Northrup, W. P., 237
 Northumberland, Duke of, 185
 Northup, C. S., 123
 Northup, E. F., 274
 Northup, G. T., 63
 Norton, A. E., 54, 55
 Norton, C. P., 41
 Norton, J. F., 64
 Norton, J. N., 66
 Norton, R. H., 211
 Norwood, G., 60
 Notcutt, H. C., 304
 Nottingham, W., 6
 Nourse, E. E., 117
 Nova Scotia, Bishop of, 342
 Nowell, D., 21
 Nowlin, Miss N., 137
 Noyes, A. A., 266
 Noyes, E. R., 325
 Noyes, F. B., 320
 Noyes, G. R., 23
 Noyes, W. A., 317
 Nugent, O. B., 254
 Nun, T. P., 150
 Nunn, G. M., 264
 Nunn, R., 99
 Nuthall, A. W., 29
 Nutt, H. W., 138
 Nuttall, G. H. F., 47
 Nutting, Miss M. A., 232
 Nutting, C. C., 120
 Nutting, H. C., 23
 Nye, A. W., 197
 Nye, P. B., 215
 Nyswander, J. A., 281
 Oakeley, Miss H. D., 156
 Oakes, Miss E. M., 249
 Oakley, T. P., 80
 Oastler, F. R., 234
 O'Boyle, F. J., 285
 O'Brian, J. L., 42
 O'Brien, W., 103
 O'Brien, T. J., 34, 211
 O'Byrne, J. F., 108
 O'Carroll, J. F., 85
 O'Chsner, A. J., 519
 O'Connell, F. W., 22
 O'Connor, D., 85
 O'Connor, F. W., 176
 O'Connor, J. L., 254
 O'Connor, M. P., 225
 O'Connor, P., 87
 Oddie, J. W., 259
 Odell, G. C. D., 232
 Odling, W., 190
 O'Donnell, R., 303
 O'Donoghue, D. W., 324
 O'Donoghue, I. A., 323
 O'Donoghue, T., 79
 O'Donovan, C., 16
 O'Dunne, E., 17
 O'Dwyer, R., 85
 Oeconomus, L., 157
 Oertel, H., 220
 O'Farrelly, Miss A. M. W., 85
 Ofor, R., 140
 Ogburn, J. H., 27
 Ogburn, W. F., 232
 Ogden, C. J., 241
 Ogden, H. N., 125
 Ogden, O. W., 89
 Ogden, R. M., 123
 Ogg, A., 58
 Ogg, D., 258
 Ogg, F. A., 201
 Ogilvie, Miss I. H., 234
 Ogle, C., 168
 Oglesby, H., 344
 Ogilvie, A. G., 206
 Ogilvie, F. G., 182
 O'Hanlon, W., 103
 O'Hara, F., 328
 O'Hara, C. C., 279
 Ohl, L. W., 270
 Ohle, E. L., 287
 O'Keefe, D., 22
 O'Kelly, T., 103
 Okey, F. M., 74
 Okey, Miss R., 24
 Okey, T., 48
 Oleott, H., 136
 Oldfather, W. A., 317
 Oldfield, The Hon. Mr. Justice F. D., 204
 Oldham, C., 283
 Oldham, C. H., 85
 Oldham, H. Y., 48
 Olds, G. D., 9, 10
 Olewine, J. H., 302
 O'Leary, de L., 38
 O'Leary, R. D., 136
 Olin, A. S., 138
 Olin, H. L., 76, 120
 Oliver, D. T., 49
 Oliver, F. W., 150, 155
 Oliver, Miss H., 136
 Oliver, H. R., 301
 Olson, J. E., 201
 Oliver, M. J., 309, 312
 Oliver, O. A., 225
 Oliver, Sir T., 89
 Oliver, T. E., 317
 Oliphant, E. H. L., 107
 Oliphant, H., 65
 Olmstead, A. T. E., 317, 320
 Olmsted, E. F., 338
 Olmsted, R. E. S., 247
 Olver, S. H., 171
 O'Maille, T., 103
 O'Malley, B. L. A., 159
 Oman, C., 188, 193
 Oman, C. W. C., 256, 258
 O'Meara, F., 211
 O'Meara, T. R., 313
 O'Neal, C. E., 80
 O'Neil, Mrs. I. T., 69
 O'Neil, E., 25
 O'Neil, G., 85
 O'Neil, J. J., 84
 O'Neil, J. M., 201
 Ongley, M., 341
 Openshaw, T. H., 169
 Ophuls, Miss L., 301
 Ophuls, W., 300
 Opie, E. L., 288
 Oppenheim, L., 47
 Oppenheimer, B. S., 235
 Orbeck, A., 217
 Orchard, E. H., 250
 Ord, C., 38
 Ord, Miss E., 142
 O'Reilly, J. J., 183
 O'Reilly, T. A., 286
 Orlady, Edith, 40
 Ormerod, E. W., 60
 Ormerod, H. A., 144
 Ormes, M. D., 74
 Ormsby, M. T., 152, 155
 Orndorff, W. R., 122, 123
 O'Roke, E. C., 135
 Orr, J., 93, 126, 206
 Orr, M. Y., 96
 Orr, T. G., 137
 Orr, V., 172
 Orr, W. McF., 86
 Ortega, J., 202
 Orth, H. D., 202
 Orth, S. P., 122
 Ortmann, A. E., 268, 269
 Orton, C. R., 302
 Orton, E., jr., 77
 Orton, G. H., 174
 Orton, J. H., 271
 Orton, K. J. P., 19
 Orton, S. T., 121
 Osborn, E. D., 138
 Osborn, H., 75
 Osborn, H. F., 233, 240
 Osborn, L., 145
 Osborn, M. A., 227
 Osborn, T. G. B., 4
 Osborne, F. B., 207
 Osborne, O. T., 229
 Osborne, P. V., 295
 Osborne, T. G. B., 5
 Osborne, W. A., 212
 Osburn, R. C., 76
 Osgood, A. T., 237
 Osgood, C. G., 272
 Osgood, W. F., 53
 Osgood, W. H., 67
 O'Shea, L. T., 293
 O'Shea, M. V., 201
 Osterhout, W. J. V., 36, 53
 Osthaus, C. W. F., 30
 O'Sullivan, A. C., 83
 O'Sullivan, C. D., 24
 O'Sullivan, Miss E. M., 78
 O'Sullivan, J. M., 85
 O'Sullivan, Mrs. M. J. D., 103
 O'Sullivan, P. T., 78
 Oswald, L. R., 105
 Otis, C. H., 69
 Otis, E. O., 211
 Ott, O. M., 270
 Ott, W. P., 225
 Otten, B. J., 286
 Otting, B. J., 285
 Ottley, R. L., 255, 259, 260
 Otto, M. C., 201
 Oughton, H., 22
 Oughterson, W. A., 225
 O'Ruhilly, T. P., 83
 Overholser, E. L., 25, 125
 Overholts, L. O., 302
 Overton, J. B., 202
 Owen, A. L., 136
 Owen, A. S., 260
 Owen, B. G., 245
 Owen, D., 159
 Owen, E. B., 285
 Owen Mrs. E. K., 289
 Owen, E. T., 201, 309
 Owen, F. E., 197
 Owen, F. S., 142, 251
 Owen, G., 3, 12
 Owen, Sir I., 38
 Owen, J., 145
 Owen, L. G., 279
 Owen, L. V. D., 292
 Owen, R. S., 202
 Owen, S. G., 259
 Owen, W. G., 217
 Owens, F. W., 123
 Owens, J. S., 180
 Owens, R. B., 266
 Oxer, F. E., 264
 Oxman, G. B., 198
 Ozanne, R. C., 168
 Pace, Very Rev. E. A., 327, 328
 Pace, E. G., 89

INDEX TO NAMES

- Pace, H. St. C., 234
 Packard, C. S. W., 266
 Paekard, W. E., 24
 Padberg, W., 250
 Padberg, W. A., 286
 Paddock, G. F., 223
 Paddock, W., 76
 Padgett, F. W., 245
 Paetow, L. J., 23
 Page, A., 157
 Page, C. H., 115
 Pagé, J. D., 278
 Page, L., 229
 Page, W. H., 203
 Pagean, J. E., 312
 Pahl, P. C. H., 197
 Paige, S., 329
 Paine, A. K., 211
 Paine, E. B., 318
 Paine, H. H., 3, 126
 Paine, N. E., 34
 Painter, C. F., 210, 211
 Pakeman, J. R., 148
 Palache, C., 53
 Palletz, N. E., 316
 Palit, C. C., 8
 Palkin, J. R., 326
 Palm, F. C., 74
 Palmie, Miss A. H., 69
 Palmer, , 271
 Palmer, J. A., 108, 280
 Palmer, A. De F., 275
 Palmer, C. E., 318
 Palmer, Capt. G. H., 179
 Palmer, Miss J. C., 271
 Palmer, J. M., 283
 Palmer, P. M., 27
 Palmer, R. C., 148
 Palmer, R. W., 45
 Palmer, S. G., 281
 Palmer, W. S., 281
 Palmer, W. W., 15
 Palsgrove, G. K., 316
 Pannett, C. A., 175
 Panton, P. N., 169
 Pappenheimer, A. M., 235
 Pâquet, A., 278
 Pâquet, L. A., 277
 Paquin, R., 278
 Pardieck, E., 289
 Paré, A., 220
 Pare, J. W., 171
 Pares, Sir B., 151, 156
 Parham, A. G., 259
 Parizeau, T., 221
 Park, E. A., 15
 Park, J., 41, 42, 87
 Park, J. B., 76
 Park, W. H., 237
 Parker, A. E., 8
 Parker, Miss C. E., 161
 Parker, E. H., 206
 Parker, F. A., 201
 Parker, G., 39, 74
 Parker, G. H., 36, 53
 Parker, G. L., 329
 Parker, H., 227, 230
 Parker, J. B., 328
 Parker, J. T., 198
 Parker, J. W., 80
 Parker, Miss M. E., 68, 69
 Parker, R., 145
 Parker, S. C., 65
 Parker, S. M., 300
 Parker, W. E., 328, 338
 Parker, W. N., 60
 Parkhurst, J. A., 63
 Parkinson, Capt. A. C. C., 181
 Parkinson, H. G., 302
 Parkinson, J., 169
 Parkinson, J. E., 132
 Parkinson, S. T., 344
 Parkinson, T. I., 235
 Parks, J. L., 31
 Parks, L. R., 302
 Parks, W. A., 309
 Parmelee, C. W., 378
 Parmenter, C. E., 64
 Parnell, F. R., 71
 Parnell, H. F., 37
 Parnell, T., 37
 Parr, H. L., 235
 Parr, S. W., 317
 Parratt, Sir W., 153
 Parrott, J. P., 104
 Parrott, T. M., 272
 Parry, R. St. J., 50
 Parshad, I. D., 131
 Parshad, S., 7
 Parshad, H. M., 247
 Parson, J. T., 125
 Parsons, A. C., 245
 Parsons, A. L., 309
 Parsons, Hon. Sir C. A., 182, 186
 Parsons, A. R., 85
 Parsons, C. L., 242
 Parsons, E. W., 242
 Parsons, F. G., 150, 166, 167
 Parsons, F. H., 334
 Parsons, G. W., 198
 Parsons, J. H., 170, 171
 Parsons, L. G., 29
 Parsons, R., 80
 Parsons, R. A., 270
 Parsons, S. R., 302, 326
 Partington, J. H., 163
 Partington, J. R., 150
 Paschall, C., 23
 Pascoe, E. H., 45
 Pasini, H. F., 70
 Pasquier, A., 221, 227
 Passant, E. J., 51
 Pasteur, W., 173
 Patch, Miss E. M., 253
 Patch, F. W., 34
 Patch, H. R., 248
 Paterson, A., 19
 Paterson, A. C., 272
 Paterson, Miss A. G., 277
 Paterson, D. R., 60
 Paterson, F. A., 233
 Paterson, Miss J. A., 160
 Paterson, J. V., 92, 94
 Paterson, J. W., 263, 264
 Paterson, R. G., 77
 Paterson, W. G. R., 108
 Paterson, W. P., 91
 Paton, D. N., 105
 Paton, H. J., 258
 Paton, J. L., 208
 Paton, L. B., 117
 Paton, L. J., 174
 Patrick, G. T. W., 120
 Patrick, W. A., 14
 Patric, A., 267
 Pattee, F. L., 301
 Pattee, G. K., 74
 Patten, B. M., 68
 Patten, W., 115
 Patterson, A. H., 17, 61
 Patterson, D. L., 136
 Patterson, E. J., 269
 Patterson, H. J., 73
 Patterson, H. S., 235
 Patterson, Miss M. F., 23
 Patterson, M. W., 259
 Patterson, N., 169
 Patterson, S. G., 115
 Patterson, T. L., 121
 Patterson, T. S., 105, 303
 Patterson, W., 122
 Patterson, W. J., 195
 Patton, C. J., 293
 Patton, F. L., 272
 Patton, J. M., 142
 Patton, J. McD., 251
 Patton, J. McI., 319
 Patton, R. S., 328
 Paves, Miss A. C., 52
 Paul, H. G., 318
 Paul, J., 107
 Paul, N. M., 61
 Paulson, C. G., 329
 Paulson, R., 190
 Pauw, D. A. A., 304
 Paxson, F. L., 251
 Paxton, J. F., 245
 Payne, F., 313
 Payne, H., 218
 Payne, T., 198
 Payne, W. A., 62
 Payne-Smith, W. H., 259
 Payrow, H. C., 27
 Peabody, C. W., 253
 Peabody, F. W., 55
 Peachey, S. J., 209
 Peacock, A. D., 88
 Peirce, J. G., 300
 Peirce, P. S., 120
 Peake, A. S., 207
 Peake, E., 259
 Pealling, R. W., 92
 Pear, T. H., 206
 Pearce, E. C., 46, 49
 Pearce, G., 194
 Pearce, J. N., 120
 Pearl, R., 15, 253
 Pearce, A. S., 201
 Pearson, A. C., 144
 Pearson, F. A., 319
 Pearson, H. C., 232
 Pearson, J., 73
 Pearson, K., 150, 155
 Pearson, S. A., 28
 Pease, A. S., 317, 320
 Pease, F. G., 262
 Pease, M. F., 38
 Pease, R. B., 134
 Peattie, R., 341
 Peck, C. H., 234
 Peck, F. B., 90
 Peck, H. R., 316
 Peck, J. W., 174
 Pedder, A. L., 258
 Peddie, W., 284
 Peddle, J. B., 308
 Peden, Hon. J. B., 305
 Peebles, , 271
 Peel, T., 46, 50
 Peele, R., 235
 Peers, C. R., 184
 Peeso, F. A., 234
 Peet, T. E., 206
 Pegram, G. P., 234
 Pell, Mrs. A. J., 41
 Pelletier, A., 221
 Pelletier, F., 277, 278
 Pelletier, Hon. L. P., 278
 Pellini, E. J., 237
 Pellissier, Adeline, 18
 Pelly, R. G., 179
 Peltier, L., 32
 Pelzer, L., 120
 Pember, F. W., 255, 258
 Pemberton, C. E., 198
 Pemberton, J. S. G., 88
 Pembrey, M. S., 152, 168
 Pendlebury, H. J., 168
 Pendleton, C. S., 202
 Pendleton, R. L., 8
 Pennell, F. W., 244
 Penrose, C. B., 266
 Penson, Sir T. H., 260
 Pepper, A. W., 180
 Perazzi, C., 209
 Percival, J., 280
 Percival, M., 76
 Percy, N. M., 319
 Perham, Miss M., 292
 Perine, C. N., 264
 Peringuey, L., 58
 Perkin, A. G., 140
 Perkin, W. H., 190, 256, 258
 Perkins, B. M. N., 38
 Perkins, C., 76
 Perkins, C. E., 237
 Perkins, E. H., 195
 Perkins, Miss E. M., 69
 Perkins, H. A., 116
 Perkins, P. B., 283
 Perkins, R. G., 68
 Perkins, R. M., 121
 Perley, C. W., 334
 Permewan, W., 145
 Perodeau, Hon. N., 221, 278
 Perold, A. I., 304
 Perrault, A., 221, 222, 278
 Perré, W. F., 79
 Perret, J. A., 163
 Perrett, W., 152, 155
 Perrier, P., 278
 Perrin, E. L., 278
 Perrin, H. C., 218
 Perrin, L., 221, 277
 Perrin, M. L., 33, 34, 35
 Perrins, F. C., 163
 Perrott, S. W., 145
 Perry, A. M., 198
 Perry, B., 53
 Perry, Sir E. C., 149, 168
 Perry, E. D., 232
 Perry, J., 186
 Perry, Mrs. M., 163
 Perry, R. B., 53
 Perry, W. B., 16
 Perry, W. C., 25
 Persilher-Lachapelle, E., 221
 Persom, A. M., 107
 Person, H. S., 115
 Persons, C. E., 238
 Persons, W. M., 53
 Pertsch, J. G., 125
 Petavel, J. E., 183, 308
 Peter, A., 326
 Peters, A. W., 142, 251
 Peters, C. C., 80
 Peterson, R. M., 253
 Peterson, T., 24
 Peterson, W. H., 203
 Petrie, P. T., 209
 Petrunkevitch, A., 223
 Pfeiffer, Miss L., 143
 Pfeiffer, Miss N. E., 110
 Pfund, A. H., 14
 Phear, A. G., 175

- Phelan, W. W., 245
 Phelps, A. C., 125
 Phelps, H. E., 276
 Phelps, I. K., 242
 Phelps, L. R., 157
 Phelps, R., 86
 Phelps, W., 259
 Phelps, W. L., 228
 Pherwani, S. N., 32
 Philbrick, A. E., 66
 Phillip, J. C., 165, 190
 Phillip, Sir R. W., 92,
 93, 94
 Phillips, Sir O., 146
 Phillips, W. A., 83
 Phillips, J. S., 105
 Phillips, A., 229
 Phillips, A. H., 274
 Phillips, P. L., 334
 Phillips, C. A., 115
 Phillips, C. E., 197
 Phillips, D., 13
 Phillips, G., 305
 Phillips, Lt.-Col. G. P.
 A., 155
 Phillips, G. R., 174
 Phillips, J., 68
 Phillips, J. B., 31
 Phillips, J. D., 202
 Phillips, J. G. P., 175
 Phillips, J. H., 225
 Phillips, Miss M., 29
 Phillips, M. H., 293
 Phillips, P., 9
 Phillips, P. C., 217
 Phillips, R., 3
 Phillips, R. H., 66
 Phillips, R. W., 19
 Phillips, T. D., 76
 Phillips, T. E. R., 186
 Phillips, T. G., 76
 Phillips, W., 60
 Phillpotts, Miss B. S.,
 161
 Philpot, H. P., 155
 Philpott, A. J., 157
 Philpotts, R. B., 148
 Phipps, C., 34, 211
 Piccoli, R., 247
 Piché, G. C., 278
 Pickard, R. H., 162
 Pickard-Cambridge, W.
 R., 257, 260
 Picken, D. K., 214
 Pickering, H. P., 87
 Pickett, B. S., 319
 Pickett, F. L., 276
 Picketthorn, K. W. M.,
 49
 Pidduck, F. B., 258
 Pieggis, H. T. H., 248
 Pieper, F., 289
 Pier, H. B., 142
 Pierce, C. H., 329
 Pierce, E. B., 216
 Pierce, F. E., 228
 Pierce, F. W., 302
 Pierce, G. W., 53
 Pierce, I. E., 277
 Pierce, N. H., 319
 Pierce, O. H., 287
 Pierce, S., 33
 Pierce, T. F., 245
 Piercy, J. W., 30
 Pierpont, J., 228
 Piersol, W. H., 309, 310
 Pierson, W. W., 61
 Pietenpol, W. B., 268
 Pietsch, K., 63
 Piexotto, Miss J. B., 24
 Pigon, A. C., 48
 Pike, F. H., 234
 Pike, J. L., 92
 Pilgrim, G. E., 45
 Pilling, A., 58
 Pilon, H., 222
 Pinches, T. G., 155
 Pinchot, G., 229
 Pinder, E., 88
 Pineault, A., 220
 Pinkerton, K. H., 60
 Pintner, R., 76
 Piper, E. F., 120
 Piper, H. H., 211
 Pipes, Miss S. F., 100
 Pippin, B. N., 288
 Pirie, G. R., 174
 Pirie, J. W., 105
 Pirrie, Lord, 146
 Pirsson, L. V., 228
 Pitcher, A. D., 68
 Pitkin, W. B., 234
 Pitman, Miss A. M., 202
 Pitman, F. W., 228
 Pitman, H., 38
 Pitt, C. H., 29
 Pitts, A. T., 174
 Pitzman, M., 288
 Pla, J., 157
 Place, E. H., 55
 Plarr, V. G., 167
 Plass, E. D., 15
 Platner, J. W., 55, 57
 Platner, S. B., 68
 Platt, J. A., 150, 155
 Platt, Miss K. A., 81
 Platt, Miss M. S., 117
 Plaugh, H. H., 10
 Playfair, E., 172
 Playfair, H. J. M., 172
 Plehn, C. C., 24
 Plitt, C. C., 17
 Plowe, J., 193
 Plowman, A. B., 78
 Plowman, H., 191
 Plum, H. G., 120
 Plumb, C. S., 76
 Plumer, Gen. Sir H. C.
 O., 321
 Plummer, C., 259
 Plummer, E. M., 211
 Plummer, H. C., 83
 Plummer, W. W., 42
 Plymouth, The Rt.
 Hon. the Earl of, 59
 Poate, H. R. G., 306
 Pozock, R. I., 187
 Poccock, R. W., 182
 Poetker, A. H., 286
 Poffenberger, A. T., jr.
 234
 Pogue, J. E., 331
 Pohlman, A. G., 286
 Poriert, J., 221
 Polack, J., 38
 Polasek, A., 66
 Pollard, A., 165
 Pollard, A. F., 150, 155,
 258
 Pollard, A. W., 150, 177
 Pollard, C. W., 142, 251
 Pollitt, A. W., 144
 Pollitt, G. P., 169
 Pollock, J. A., 306
 Pomeroy, J. N., 319
 Pond, G. G., 300, 302
 Pond, M. A., 125
 Ponsonby, P., 280
 Pontypridd, The Rt.
 Hon. Lord, 59
 Pool, E. H., 235
 Pool, R. J., 142
 Poole, R. L., 256
 Poole, H. H., 83
 Poole, J. P., 135
 Poole, R. L., 255, 258
 Poole, W. B., 5
 Pooley, E. H., 163
 Pooley, G. H., 293
 Poor, C. L., 233
 Poor, J. M., 115
 Pope, A., 54
 Pope, F. G., 151
 Pope, G. H., 40
 Pope, J. V. S., 83
 Pope, P. R., 123
 Pope, R. O. M., 261
 Pope, Sir W. J., 47, 190
 Pope, W. L., 218
 Popham, A. E., 178
 Popp, H. E., 316
 Popper, W., 23
 Popplewell, W. C., 209
 Port, F. J., 149
 Port, T. H., 248
 Porter, A. K., 230
 Porter, A. T., 155
 Porter, A. W., 152, 155
 Porter, C., 173
 Porter, C. A., 54
 Porter, C. W., 25
 Porter, E., 280
 Porter, E. L., 68
 Porter, F. C., 229
 Porter, F. M., 196, 197
 Porter, J. B., 219
 Porter, J. P., 343
 Porter, K. H., 120
 Porter, R. C., 28
 Porter, W., 13
 Porter, W. H., 78
 Porter, W. T., 54
 Portland, Duke of, 248
 Portway, D., 51
 Post, C. R., 54
 Postgate, J. P., 144
 Postlethwaite, W. W.,
 74
 Pottenger, F. M., 197
 Potter, A. K., 275
 Potter, B. E., 170
 Potter, F. F., 276
 Potter, F. H., 120
 Potter, G. F., 203
 Potter, J. I., 85
 Potter, M. C., 89
 Potter, W. A., 29, 311
 Potter, W. H., 54
 Potts, A. E., 291
 Potts, F. A., 49
 Pouliot, A., 277
 Poulton, B., 4
 Poulton, E. B., 256, 260
 Pound, Miss L., 143
 Pound, R., 55
 Powell, F. G., 309, 312
 Powell, F. M., 199
 Powell, J. U., 259
 Powell, Miss M. E., 206,
 208
 Powell, N. A., 310
 Powell, P. H., 67
 Powell, T. R., 265
 Power, D'Arcy, 166
 Power, M., 103
 Power, P., 78
 Power, R., 35
 Powers, G. F., 15
 Poynter, C. W. M., 141
 Poynton, A. B., 257
 Poynton, F. J., 171, 174
 Praeger, J., 324
 Praeger, R. L., 87
 Prain, Lt.-Col. Sir D.,
 184, 194, 195
 Pratt, F. S. P., 343
 Pratt, H. S., 73
 Pratt, J. B., 341
 Pratt, J. H., 61
 Pratt, Col. J. J., 176
 Pratt, Lt.-Col., 172
 Pratt, W. S., 117
 Pravina, R., 223
 Pray, J. S., 55
 Preece, C. T., 28
 Prentice, D. B., 90
 Prentice, W. K., 272
 Prentiss, H. J., 121
 Prescott, F. C., 123
 Prescott, H. W., 63
 Prescott, J., 209
 Press, A., 25
 Prestige, G. L., 258
 Preston, A. W., 281
 Preston, C. H., 207
 Preston, H. H., 249
 Preston, J. R., 76
 Preston, S., 163
 Prettyman, V., 232
 Preyer, C. A., 138
 Price, C., 23
 Price, G. C., 300
 Price, G. H., 225
 Price, H. T., 269
 Price, H. W., 310
 Price, I. R., 63
 Price, J. R., 202
 Price, L. L., 256
 Price, L. L. F. R., 257
 Price, L. T., 234
 Prichard, H. A., 259
 Pritchard, R. S., 302
 Prickard, A. O., 258
 Priedeaux, W. R. B.
 155
 Priebsch, R. C., 150, 155
 Priest, G. M., 272
 Priest, H. J., 37
 Priestly, H. I., 23
 Priestly, H. J., 37
 Priestly, J. H., 140
 Primrose, A., 310
 Prince, J. D., 232
 Prince, J. E., 278
 Pring, G. H., 289
 Pring, J. N., 206
 Pringle, H., 83, 86
 Pringle, J., 182
 Pringle, J. J., 173
 Pringle, J. N., 312
 Pringle, W. H., 159
 Prior, E. S., 48
 Prior, G. T., 178
 Pritchett, H. S., 243
 Fritt, D. N., 159
 Probert, F. H., 25
 Probine, L. H., 318
 Probst, Carrie M., 18
 Probyn-Williams, R. J.
 169
 Proctor, C. A., 115
 Proctor, C. M., 211
 Proctor, W. M., 299
 Profet, W. J., 2
 Propps, D. H., 142
 Proserpio, L., 210
 Prothero, G. W., 256
 Proudman, S., 144
 Prout, Lt.-Col. W. T.,
 147
 Prouty, W. F., 61
 Provin, H. H., 279
 Prucha, M. J., 310
 Pryce, F. N., 178

INDEX TO NAMES

- Pryor, J. C., 326
 Pugh, W. J., 3
 Pugsley, Hon. W., 101
 Pullan, L., 259
 Pulleine, Major R. H., 5
 Pullen, M. W., 15
 Pullenayegum, F. A., 74
 Pulley, W. J., 237
 Pulling, A. V. S., 102
 Pumpelly, L., 123
 Punnett, R. C., 47
 Pupa, M. I., 235
 Purcell, J. J., 309
 Purcell, P. F., 85
 Purcell, W. F., 58
 Purchon, W. S., 293
 Purington, Miss F., 297
 Purser, F. C., 86
 Purser, J., 165
 Purser, J. W., 162
 Purser, L. C., 82
 Purslow, C. E., 29
 Purton, A. B., 329
 Purvis, J. E., 47
 Putman, J. W., 42
 Putnam, Miss B. T., 297
 Putnam, G. E., 288
 Putnam, H., 334
 Putnam, T. M., 23
 Putzki, P. S., 326
 Pycraft, W. P., 178
 Pye, D. R., 51
 Pye, J. P., 103
 Pyle, L., 237
 Pym, W. St. J., 49
 Pyman, F. L., 209
 Pyre, J. F., 201
 Pyrs, O., 59

 Qadir, S. A., 133
 Quackenboss, A., 54
 Quads, R., 44
 Quarles, J. T., 123
 Quasim, M., 44
 Quale, H. J., 24
 Queen, H. M., 176
 Queen, S. A., 18
 Quennell, S. M., 172
 Queva, A., 221
 Quick, J. G., 268
 Quiggin, E. C., 48, 49
 Quiller-Couch, Sir A. T., 48
 Quimby, C. E., 237
 Quinlan, W. P., 250
 Quinton, A. D., 222
 Quinton, J., 157
 Quraishi, F. F., 295

 Raaf, N. R. K., 205
 Raber, B. F., 25
 Race, C. E., 97
 Raekham, B., 179
 Raekham, H., 50
 Radcliffe, J., 209
 Radcliffe, L. G., 209
 Rad, J. L., 245
 Radhakishan, M., 132
 Radhakrishnan, S., 224
 Radin, M., 26
 Radin, P., 23
 Radley, P. E., 190.
 Raff, A., 157
 Rafter, J., 38
 Rahilly, A. J., 78
 Rahman, A., 81
 Rahman, M. A., 280
 Rai, G., 132, 133
 Rai, H., 131
 Rai, K., 133
 Rai, Manmohan, 5
 Ralford, L. C., 120
 Raimondi, A., 198
 Rainy, H., 93
 Raison, Miss C. A., 160
 Rait, R. S., 105
 Raj, B. Sundra, 204
 Raj, M., 133
 Raj, R. B. Hem, 296
 Raj, Hem, 133
 Rajehman, L. W., 169
 Raleigh, A. C., 133
 Raleigh, Baron, 46
 Raleigh, Sir T., 258
 Raleigh, Sir W. A., 256, 257
 Ram, B., 263
 Ram, G., 299
 Ram, K., 81
 Ram, L. T., 127
 Ram, R., 132
 Rambo, Miss S. M., 247
 Ramey, A. R., 245
 Raman, C. V., 43
 Ramsay, A. M., 105
 Ramsay, Miss A. M., 193
 Ramsay, J., 107
 Ramsay, W., 291
 Ramsbottom, A., 207
 Ramsbottom, J., 159, 178
 Ramsden, W., 145, 260
 Ramsden, W. C., 83
 Ramsey, A. S., 46, 50
 Ramsey, J. W., 276
 Ramsey, R. A., 166
 Ramsey, R. R., 30
 Ramsower, H. C., 76
 Rand, E. K., 23, 53
 Rand, Miss G., 41
 Rand, H. W., 54
 Randall, F. H., 121
 Randall, M., 25
 Randall, O. E., 275
 Randolph, B. M., 326
 Randolph, C. B., 343
 Randolph, R. L., 15
 Randon, L. A., 321
 Raney, M. L., 14, 15
 Rankin, A., 97
 Rankin, E. M., 90
 Rankin, F. H., 319
 Rankin, J. O., 142
 Rankin, J. S., 107
 Rankin, W. H., 124
 Rankin, W. M., 274
 Rankin, W. W., 61
 Rankine, A. O., 165
 Rankine, J., 91
 Ranking, G. S. A., 256
 Ranner, S. C., 171, 172
 Ransom, F., 175
 Ransom, J. H., 224
 Ransom, W. R., 211
 Ransome, F. L., 329
 Ranum, A., 123
 Rao, C. R. N., 224
 Rao, M. G. S., 224
 Rao, M. V., 45
 Rao, N. S. Subba, 224
 Raper, C. L., 61
 Raper, H. S., 140
 Rapp, I. M., 245
 Rapson, E. J., 48
 Raschen, J. F. L., 268, 269
 Rasmussen, F., 302
 Rasor, S. E., 76
 Rassieur, L., 286
 Rastall, R. H., 50
 Rathbone, Miss E., 144
 Rathbun, H. A., 286
 Rateliff, S. C., 183
 Rathdonnell, Rt. Hon. Lord, 86
 Rathjon, E. F., 253
 Rau, S. S. R., 45
 Raub, W. L., 102
 Rautenstrauch, W., 235
 Raven, C. E., 51
 Ravenel, W. de C., 331
 Raw, F., 28
 Rawles, W. A., 30
 Rawling, L. B., 166
 Rawlinson, A. E. J., 269
 Rawlinson, J. F. P., 46, 160
 Rawson, G. H., 88
 Rawson, J. N., 291
 Rawson, Capt. R. I., 38
 Rawson, S. W., 258
 Ray, F. A., 77
 Ray, H. C., 268, 269
 Ray, H. N., 292
 Ray, J. H., 207
 Ray, Sir P. C., 43, 45
 Raycroft, J. E., 274
 Rayleigh, Lord, 165
 Raymer, G. S., 54, 55
 Raymond, E. N., 136
 Raymond, P. E., 54
 Raymond, R. M., 235
 Raymond, W. G., 121
 Raymond, W. J., 23
 Raymond, W. T., 102
 Rayner, D. C., 39
 Rayner, F. E., 163
 Rayner, F. H., 183
 Rayner, H. H., 207
 Read, A. A., 60
 Read, Alice M., 149
 Read, C., 63, 155
 Read, C. F., 320
 Read, Sir H., 178, 184
 Read, H. H., 182
 Read, J., 306
 Read, J. B., 202, 318
 Read, M. S., 114
 Read, W. I. D. S., 259
 Reade, W. H. N., 260
 Readhimer, J. E., 319
 Reading, R. F., 306
 Reardon, N. D., 250
 Reaves, S. W., 215
 Reay, Rt. Hon. the Lord, 154, 187
 Rebec, G., 99
 Rébora, P., 144
 Reek, J. A., 246
 Recknagel, A. B., 124
 Record, S. J., 229
 Records, E., 281
 Reddaway, F. W., 49
 Reddaway, W. F., 51
 Reddick, D., 124
 Reddie, A. F., 99
 Reed, A. A., 141, 143
 Reed, Miss A. L., 272
 Reed, A. W., 152, 156
 Reed, D. B., 13
 Reed, E. B., 228
 Reed, F. O., 202
 Reed, G. A., 142
 Reed, H., 246
 Reed, H. D., 123, 124
 Reed, H. L., 123
 Reed, H. S., 24
 Reed, J. H., 111
 Reed, L. J., 15
 Reed, Miss M., 175
 Reed, P., 121
 Reed, T., 168
 Reed, T. H., 23
 Reed, T. B., 215
 Reed, W. H., 211
 Reeder, C. W., 78
 Reeder, J. D., 17
 Reeds, C. A., 239
 Reedy, J. H., 318
 Rees, B. J., 341
 Rees, J. F., 92
 Rees, R. W., 124
 Rees, T., 20
 Reese, Miss E., 143
 Reese, R. G., 123
 Reeves, E. A., 187
 Reeves, H. P., 80
 Reeves, J. W., 197
 Reeves, W. P., 326
 Reeves, Hon. W. P., 152
 Regan, C. T., 178
 Regan, F. P., 24
 Reichel, Sir H. R., 19, 59
 Reichelderfer, L. H., 326
 Reid, C., 221
 Reid, D. G., 49
 Reid, E. B., 334
 Reid, E. W., 284
 Reid, G. A., 222
 Reid, G. W., 88
 Reid, H. F., 14
 Reid, H. M. B., 106
 Reid, J. S., 48, 193
 Reid, R. W., 2
 Reider, J., 265
 Reiley, Miss K. C., 233
 Reilly, C. H., 144
 Reilly, F. X., 250
 Reilly, H. E., 219
 Reilly, J. F., 120
 Reimer, Miss M., 234
 Reinecke, O. S. H., 304
 Reimink, H., 272
 Reinke, E. E., 225
 Reis, F., 211
 Reisner, G. A., 53
 Reitell, C. P., 263
 Reiter, H. R., 27
 Reitz, S. C. B., 241
 Reiph, A. E., 171
 Relph, H. J., 171
 Rensburg, C. G., 336
 Remy, A. F. J., 232
 Renault, G. E., 144
 Rendall, F. G., 177
 Rendle, A. B., 178, 185
 Rendtorff, K. G., 299
 Rennie, E. H., 4, 5
 Rennie, E. J. C., 213
 Rennie, J., 2
 Rennie, W., 105
 Renshaw, R. R., 55
 Rentoul, J. L., 214
 Requardt, W. W., 16
 Resides, G. H., 303
 Resiner, E. H., 233
 Resser, C. E., 331
 Rettger, E. W., 125
 Rettger, L. F., 229
 Retzer, R., 269
 Reuter, E. B., 18
 Revell, D. G., 97
 Rew, Sir R. H., 188
 Reyburn, H. A., 58
 Reyna, J. E., 125
 Reynolds, E. D., 158
 Reynolds, E. S., 207

- Reynolds, G. F., 31
 Reynolds, H. McL., 228
 Reynolds, J. B., 27
 Reynolds, J. E., 190
 Reynolds, Miss M., 63
 Reynolds, S. H., 39, 40
 Reynolds, W., 66
 Rhead, E. L., 209
 Rheanme, Z., 220
 Rhoades, E. L., 142
 Rhodes, F. A., 270
 Rhodes, Miss H., 99
 Rhodes, R. L., 110
 Rhoton, A., 302
 Rhys, T., 20
 Ricard, J. I., 290
 Rice, A. H., 33, 35
 Rice, C. H., 131
 Rice, E. L., 78, 80
 Rice, F. E., 125
 Rice, G. B., 34
 Rice, H., 211
 Rice, H. A., 137
 Rice, H. G., 98
 Rice, J., 145
 Rice, J. A., 143
 Rice, J. E., 124
 Rice, J. P., 341
 Rice, K. S., 343
 Rice, L. P., 216
 Rice, M. E., 138
 Rice, R. A., 247, 324
 Rice, R. C., 329
 Rice, R. F., 133
 Rice, S. O., 136
 Rice, W., 210, 211
 Rice, W. N., 216
 Richards, C. R., 317, 318
 Richards, Miss E., 248
 Richards, E. H., 282
 Richards, G., 203
 Richards, G. C., 255, 257, 261
 Richards, H. C., 37
 Richards, Sir H. E., 255, 258
 Richards, H. M., 233
 Richards, H. S., 203
 Richards, J. R., 202
 Richards, J. W., 27
 Richards, P. A. E., 175, 193
 Richards, P. B., 129
 Richards, P. E., 133
 Richards, R. H., 134
 Richards, T. W., 53
 Richardson, A. E., 150, 155
 Richardson, A. F. V., 213
 Richardson, A. G. G., 77
 Richardson, A. H., 166
 Richardson, A. R., 165
 Richardson, Miss A. W., 161
 Richardson, C. W., 326
 Richardson, E. C., 274
 Richardson, E. E., 325
 Richardson, E. H., 15
 Richardson, J. P., 115
 Richardson, L., 322
 Richardson, L. B., 115
 Richardson, L. J., 23
 Richardson, N. F., 231
 Richardson, O. W., 151, 157
 Richardson, R. G. D., 275
 Richardson, T. H., 294
 Richardson, W. D., 242
 Richardson, W. W., 197
 Richeson, J. J., 11, 12
 Richey, J. E., 182
 Richtmyer, F. K., 123
 Richmond, A. P., 115
 Richmond, C. W., 331
 Richmond and Gordon, His Grace the Duke of, 1
 Richmond, H. W., 47, 49
 Richmond, Myrtle L., 262
 Richmond, O. L., 91
 Ricketts, P. C., 315
 Riddell, Miss A. R., 41
 Riddell, J. R., 106
 Riddle, L. M., 197
 Riddle, L. W., 54
 Riddle, O. W., 72
 Ridenour, H. L., 302
 Rider, G. L., 253
 Rider, Mrs. G. T., 334
 Rider, P. R., 287
 Ridgway, C. B., 135
 Ridgely, R. H., 11
 Ridington, J., 322
 Ridgway, R., 331
 Ridgway, W., 48
 Rieber, C. H., 23
 Riegelhuth, Miss K., 231
 Riely, C., 16
 Riely, J. W., 246
 Ries, H., 122
 Riet, B. v. d., 304
 Rietz, H. L., 120
 Rigdon, R. L., 301
 Rigg, J. M., 183
 Rigge, W. F., 250, 251
 Riggles, J. L., 326
 Riggs, E. S., 67
 Riggs, R. B., 116
 Rightmire, G. W., 77
 Rigling, A., 266
 Riley, B. M., 250
 Riley, The Most Rev. C. O., 263
 Riley, F. R., 87
 Riley, H. W., 124
 Riley, L. A., 246
 Riley, N. D., 178
 Riley, W., 271
 Rimes, A. W., 217
 Rimmer, E. J., 145
 Rion, P., 222, 223
 Ripley, W. Z., 53
 Ripper, W., 292, 293
 Ripper, J. B., 11
 Rishworth, F. S., 103
 Ristine, F. H., 71
 Ritchie, A. C., 17
 Ritchie, E., 112
 Ritchie, Miss F. M., 29
 Ritchie, G. Mary, 262
 Ritchie, J., 92, 94
 Ritchie, R. L. G., 29
 Ritchie, S. G., 113
 Ritchie, W., 58
 Ritchie, W. T., 93
 Ritenour, J. P., 302
 Ritson, F. W., 88
 Rittenhouse, C. F., 34, 35
 Rittenhouse, S., 197
 Ritter, W. E., 23
 Rivard, A., 278
 Rivet, A., 220
 Rivett, A. C. D., 213
 Rivillé-Rensch, Miss E., 297
 Rix, R., 250
 Rixford, E., 300
 Rixon, F. W., 39
 Rizer, H. C., 329
 Roach, W. A., 283
 Roadhouse, C. L., 24
 Roaf, H. E., 152, 173
 Roark, L., 31
 Robb, B. B., 124
 Robb, C. A., 97
 Robb, T. B., 245
 Robb, W. L., 315
 Robb, W. S., 286
 Robbins, A. H., 287
 Robbins, C. A., 141
 Robbins, C. L., 121
 Robbins, E. C., 99
 Robbins, E. Y., 272
 Robbins, G. H., 203
 Robbins, J. H., 180
 Robert, A., 277
 Robert, O. T., 247
 Roberts, 272
 Roberts, A. A., 272
 Roberts, A. R., 219
 Roberts, C., 207
 Roberts, D. L., 207
 Roberts, F. I., 49
 Roberts, H. A., 138
 Roberts, J. P., 124
 Roberts, J. C., 108
 Roberts, Miss J. E., 122
 Roberts, J. E. H., 166
 Roberts, J. L., 143
 Roberts, L. D., 108
 Roberts, Miss L. J., 65
 Roberts, P. E., 260
 Roberts, R. A., 19
 Roberts, R. H., 203
 Roberts, S. C., 277
 Roberts, S. E., 137
 Roberts, T. S., 3
 Roberts, W. D., 129
 Roberts, W. F., 339
 Roberts, W. H., 145
 Roberts, W. J., 60
 Roberts, W. R., 140
 Roberts, W. R. W., 82, 87
 Roberts, W. S., 129
 Robertson, A., 39, 40
 Robertson, A. D., 195
 Robertson, A. T., 199
 Robertson, C. G., 28, 258, 259
 Robertson, D., 39, 40
 Robertson, D. A., 51, 62, 63
 Robertson, D. S., 50
 Robertson, E., 92
 Robertson, E. H., 294
 Robertson, J., 29
 Robertson, J. C., 309, 311
 Robertson, J. G., 150, 155, 160
 Robertson, L. F., 322
 Robertson, Miss M. W. U., 2
 Robertson, R. A., 284
 Robertson, T. B., 309
 Robertson, His Hon. W. C. F., 321
 Robertson, W. G. A., 94
 Robertson, W. L., 284
 Robertson, W. R. B., 137
 Robertson, W. S., 318
 Robertson, W. S. A., 45
 Robey, W. H., jr., 54
 Robins, H. B., 282
 Robinson, G. D., 172
 Robinson, A., 89, 92
 Robinson, The Ven. A. G., 46
 Robinson, Miss A. R., 76
 Robinson, B. L., 53, 56
 Robinson, C., 273
 Robinson, C. W., 302
 Robinson, D. M., 14
 Robinson, D. N., 80
 Robinson, E., 19, 241
 Robinson, E. E., 228, 300
 Robinson, E. M., 252
 Robinson, E. S. G., 178
 Robinson, Miss F. L., 199
 Robinson, F. N., 53
 Robinson, G. C., 288
 Robinson, G. E., 322
 Robinson, G. H., 15, 26
 Robinson, G. W., 19
 Robinson, H., 206
 Robinson, H. M., 212
 Robinson, H. McA., 90
 Robinson, J. B., 17
 Robinson, K. A., 115
 Robinson, L. N., 25
 Robinson, M. H., 318
 Robinson, P., 328
 Robinson, P. E., 274
 Robinson, R., 145
 Robinson, T. R., 209
 Robinson, W., 207, 248
 Robinson, W. A., 115
 Robinson, W. F., 67
 Robinson, W. J., 108, 196
 Robison, W. F., 286
 Robson, G. C., 178
 Robson, S., 126
 Robson, W. G., 284
 Roche, Hon. W. J., 195
 Rochester, De L., 42
 Rockwell, E. H., 211
 Rockwell, Miss L., 199
 Rockwell, W. W., 239
 Rockwood, E. W., 120, 121
 Rode, R. B., 286
 Rodgers, F. C., 286
 Rodgers, R., 180
 Rodway, B. J., 207
 Roe, F. W., 202
 Roe, J. H., 326
 Roebuck, A., 231
 Roebuck, J. R., 202
 Roedder, E. C. L. C., 201
 Roever, H. W., 287
 Roger, H. S., 90
 Rogers, A., 76
 Rogers, A. F., 300
 Rogers, A. K., 228
 Rogers, Agnes L., 18
 Rogers, C. B., 71
 Rogers, C. C., 320
 Rogers, C. E., 116
 Rogers, C. F., 157
 Rogers, C. G., 249
 Rogers, D. C., 247
 Rogers, E. A., 121
 Rogers, F. J., 300
 Rogers, F. S., 125
 Rogers, H. W., 229
 Rogers, J., 123
 Rogers, J. D., 327
 Rogers, J. S. Y., 284
 Rogers, L. J., 309

INDEX TO NAMES

- Rogers, M. H., 211
 Rogers, O. F., 229
 Rogers, R. A. F., 83
 Rogers, Lieut.-Col. R. S., 4, 5
 Rogers, R. W., 273
 Rogers, S. S., 24
 Rogers, T. B., 238
 Rogerson, H., 168
 Rogoff, J. M., 68
 Rohde, A., 269
 Rohrlack, O. H., 320
 Rohwer, S. A., 338
 Rokahr, Miss M., 142
 Rolfe, R. A., 195
 Rollins, E. B., 211
 Rollit, Sir A. K., 147
 Rollo, J. C., 224
 Rolls, The Master of the, 183
 Romer, M. L., 46
 Rood, F. S., 171
 Rood, J. T., 318
 Rooke, Miss M., 247
 Rooney, W. J., 264
 Roorbach, G. B., 55
 Root, A. S., 248
 Root, E., 322
 Root, Hon. E., 71
 Root, R. K., 272
 Root, W. T., 201
 Root, W. T., jr., 299
 Rootham, C. B., 50
 Ropes, J. H., 55
 Roscoe, R., 149
 Rose, B. T., 29
 Rose, Miss F., 124
 Rose, F. A., 166
 Rose, H. J., 3
 Rose, J. H., 17, 48
 Rose, J. N., 331
 Rose, Mrs. M. D. S., 233
 Rosebery, Earl of, and Midlothian, 104, 147, 149
 Rosebrugh, T. R., 310
 Roselli, .. 272
 Rosenau, M. J., 54
 Rosenberg, C. J., 164
 Rosenberg, L. C., 99
 Rosenfeld, J., 198
 Rosenhampff, A. H., 237
 Rosenhain, W., 183
 Rosenheim, O., 151, 157
 Rosenthal, L. J., 16
 Rosenthal, M., 16
 Roseveare, W. N., 267
 Rosher, A. B., 170
 Ross, A. D., 264
 Ross, Sir D., 151
 Ross, E. A., 201
 Ross, G. A. J., 239
 Ross, G. R. T., 279
 Ross, H. E., 124
 Ross, J. D. M., 92
 Ross, Miss K., 277
 Ross, Miss M., 196
 Ross, P. A., 300
 Ross, S. J., 225
 Ross, W. D., 257
 Ross, W. L., 250
 Rosse, H., 66
 Roth, G. B., 336
 Rother, A. J., 286
 Rothenstein, W., 202
 Rothganger, H., 301
 Rothrock, D. A., 30
 Roughtley, T. C., 307
 Roulston, R. B., 14
 Rouse, B. H., 66
 Roush, G. A., 27
 Rousseau, A., 278
 Rousseau, W. W., 316
 Routh, H. V., 152, 160
 Routhier, Sir A. B., 277
 Rouw, R. W., 168
 Rowan, C. J., 121
 Rowden, P., 258
 Rowe, A. W., 34, 35
 Rowe, C. H., 83
 Rowe, F. M., 209
 Rowe, J. E., 302
 Rowe, J. P., 217
 Rowell, Miss E. M., 98
 Rowili, G., 168
 Rowland, J. M. H., 16
 Rowland, V. C., 68
 Rowlands, R. P., 168
 Rowlee, W. W., 122
 Rowley, S., 31
 Rowntree, Miss E., 336
 Roxburgh, A. B., 160
 Roxby, P. M., 144
 Roy, C., 278
 Roy, F., 278
 Roy, J. A., 284
 Roy, K. C., 199
 Roy, S. C., 133
 Royal, G., 121
 Royce, C. H., 125
 Roysds, T., 296
 Royer, J. E., 320
 Rubel, C. W., 24
 Ruhe, H. A., 319
 Rudd, R. B., 71
 Ruddiman, E. A., 225
 Rudge, C. K., 39
 Rudlar, G., 150, 160
 Rudmoss-Brown, T. D., 83
 Rudolf, R. D., 310
 Rudolph, C. H., 339
 Rudra, S. K., 81
 Ruediger, W. C., 325
 Ruegnitz, Miss R. L., 134
 Rutlin, S., 326
 Ruger, H. A., 234
 Rugh, H. O., 65
 Ruggles, C. O., 76
 Ruggles, E. P., 34
 Rugh, C. E., 26
 Ruhrah, J., 16
 Rule, H. G., 92
 Rum, A., 131
 Rumwell, M. E., 301
 Rundell, O. S., 203
 Rundle, C., 145
 Runge, Miss L., 143
 Runkle, E. W., 301
 Runner, J., 120
 Ruonyan, O., 250
 Rusby, H. H., 234, 244
 Rushmore, F. M., 46, 50
 Rushmore, S., 211
 Rushton, W., 167
 Rusk, G. M., 99
 Rusk, G. Y., 23
 Rusk, H., P. 319
 Ruskbrook, W. G., 160
 Ruskbrook-Williams, L. F., 7
 Russ, S., 173, 194
 Russell, E., 39
 Russell, J. C., 142
 Russell, A. S., 293, 294
 Russell, Hon. G., 113
 Russell, E. H., 322
 Russell, E. J., 282
 Russell, F. A., 318
 Russell, F. L., 253
 Russell, H. L., 202, 203
 Russell, H. N., 274
 Russell, J. F., 236
 Russell, J. E., 232
 Russell, J. W., 29, 257, 259, 260
 Russell, L. J., 105
 Russell, P. N., 306
 Russell, P. T., 295
 Russell, R., 83
 Russell, T. G., 300
 Russell, Mrs. T. P., 209
 Russell, W., 94
 Russell, W. F., 121
 Russell, W. W., 15
 Ruth, W. W., 319
 Rutherford, Sir E., 47
 Rutherford, N. C., 169
 Rutherford, W. J., 290, 291
 Rutt, W., 5
 Ruttan, R. F., 219, 254
 Ruyl, J. P., 234
 Ryan, A. H., 211
 Ryan, C. C., 322
 Ryan, F. W., 113
 Ryan, Miss G. E., 134
 Ryan, H., 85
 Ryan, H. J., 300
 Ryan, J., 327
 Ryan, J. P., 281
 Ryan, Miss M., 78
 Ryan, W. J., 286
 Rydberg, P. A., 244
 Ryder, A. W., 23
 Rye, R. A., 149
 Ryerson, M. A., 66
 Ryffel, J. H., 168
 Rykoff, Miss S., 289
 Saalbach, L., 270
 Sabin, Miss E. E., 41
 Sabin, F. E., 202
 Sabin, Miss F. R., 14
 Saby, R. S., 123
 Sachs, A., 251
 Sachs, E., 288
 Sachs, P. J., 54
 Sackett, R. L., 301
 Sackville, J. P., 111
 Sadler, Sir M. E., 139
 Sadler, W., 322
 Sadr-ud-din, M., 131
 Saftullah, S. M., 44
 Sage, Miss E., 31
 Sage, E. T., 265, 269
 Sage, W. N., 322
 Sageman, P. J., 180
 Sahai, M., 132
 Sahai, V. N., 133
 Said, M., 131
 Sain, K., 132
 St. Davids, The Lord Bishop of, 134
 St. John, C. E., 262
 St. John, F. B., 235
 St. John, L., 177
 St. Laurent, L., 278
 St. Piene, C., 220
 Saint-Piene, W., 221
 Sait, E. M., 233
 Saldanha, G., 210
 Salliers, E. A., 228
 Salisbury, E., 183
 Salisbury, E. J., 156, 283
 Salisbury, R. D., 62, 63
 Salmon, E. S., 152, 344
 Salmon, L. M., 271
 Salmond, F. C., 67
 Salmond, R. W. A., 171
 Salter, F. R., 50
 Salter, L. S., 246
 Salter, M. de C., 180
 Salyer, S. M., 245
 Salzer, Miss, F., 199
 Salzmann, O. M., 107
 Samad, A., 44
 Sambon, L. W., 176
 Sameth, Miss E., 281
 Samiruddin, 44
 Sammis, J. L., 203
 Sampathkumaran, M. A., 224
 Sampey, J. R., 199
 Sampson, C. H., 259
 Sampson, J., 143
 Sampson, Miss K., 3
 Sampson, Miss M. M., 247
 Sampson, M. W., 122
 Sampson, R. A., 91
 Samuel, Rt. Hon. H., 188
 Samuels, A., 16
 Samuels-Lal, P., 131
 Samut, C., 321, 322
 Sandborn, H. C., 225
 Sanday, W., 255, 259
 Sandbach, F. E., 29
 Sandford, P., 310
 Sandeman, L., 206
 Sanders, H. N., 41
 Sanders, H. W., 264
 Sanders, J. A., 250
 Sanders, W. T., 224
 Sanderson, D., 124
 Sandford, A. W., 78
 Sandford, E. C., 343
 Saneksar, R., 199
 Sanford, F., 300
 Sanford, F. W., 143
 Sanford, R. F., 262
 Sanford, T. F., 23
 Sanger, F. D., 16
 Sanjana, K. J., 27
 Sanyal, T., 126
 Sappington, G. R., 17
 Sargent, W. E., 166
 Sargent, A. J., 150, 162
 Sargent, F., 89
 Sargent, W., 65
 Sarker, B., 13
 Sarolea, C., 91
 Sarratt, C. M., 225
 Sasscer, E. R., 338
 Sastrial, S. S., 205
 Sastry, R. S., 224
 Satterley, J., 309
 Sathianathan, I., 295
 Saunders, 271
 Saunders, A. J., 205
 Saunders, A. P., 71
 Saunders, D. W., 312
 Saunders, Miss E. R., 52
 Saunders, F. A., 54
 Saunders, L. P., 279
 Saunders, P. W., 175
 Saunders, S. J., 71
 Saunders, T. B., 148
 Saunders, T. L., 235
 Saunders, W., 294
 Saunion, H., 163
 Sauveur, A., 55
 Savage, C. W., 249
 Savage, D., 163
 Savage, E. S., 124
 Savage, H. J., 8, 41
 Savage, T. E., 317
 Saville, M. H., 232
 Saville, T., 61
 Savory, D. L., 22

- Savory, Sir J., 98
 Sawdon, W. M., 125
 Sawhony, A. R., 132
 Sawyer, G. C., 232
 Sawyer, J. P., 68
 Sawyer, Miss M. L., 102
 Saxelby, F. M., 162
 Sayce, A. H., 257
 Sayder, M. K., 276
 Sayers, W. C. B., 155
 Sayle, C. E., 51
 Sayre, F. B., 55
 Sayre, L. E., 136, 137
 Sayre, R. H., 237
 Sayre, W. E., 110
 Scales, S., 172
 Scammell, J. C., 211
 Scarborough, H. B., 11
 Scarborough, J. C., 197
 Scarlett, A. J., 115
 Schaafl, D., 77
 Schaefer, M. A., 250
 Schafer, Sir A. E. S., 92
 Schafer, E. G., 276
 Schafer, J., 98, 99
 Schaff, D. S., 270
 Schafner, J. H., 76
 Schalek, A., 141
 Schalek, A., 251
 Schaller, W. P., 301
 Schapiro, I., 85, 326,
 334
 Schaub, L. F., 55
 Schauflier, R. McE.,
 137
 Schealer, S. R., 27
 Schenck, Miss E. M., 41
 Scherck, H. J., 286
 Scherer, N. W., 76
 Schermerhorn, H. B.,
 225
 Scheuber, T., 252
 Schench, F. C., 217
 Schevill, F., 63
 Schievel, R., 23
 Schieffer, F. J., 251
 Schiller, F. C. S., 259
 Schilling, H. K., 23
 Schindler, C., 37
 Schinz, A., 9, 132, 247
 Schlapp, O., 92
 Schlater, W. L., 192
 Schlatter, E. B., 201
 Schlatter, F. E., 202
 Schleiter, H. G., 269
 Schlesinger, A. M., 120
 Schlesinger, E. G., 168
 Schlesinger, F., 62, 268,
 269, 270
 Schlesinger, H. I., 63
 Schlich, Sir W., 256
 Schloemer, C. C., 238
 Schlomovito, S., 202
 Schmidt, A. F. W., 82,
 325, 327
 Schmidt, C. C., 110
 Schmidt, Miss C. L., 201
 Schmidt, C. L. A., 23
 Schmidt, F. G. G., 99
 Schmidt, G. F. W., 246
 Schmidt, N., 122
 Schmidt, W. A., 245
 Schmidt, W. L., 331
 Schmitt, B. E., 69
 Schmitz, N., 302
 Schuebly, M. I., 326
 Schneck, H. W., 125
 Schneider, E. C., 216
 Schneider, J., 328
 Schoder, E. W., 125
 Schoell, F. L., 64
 Schoemaker, D. M., 286
 Schoenfeld, H., 325
 Schoff, W. H., 267
 Schofield, J. A., 306
 Schofield, W. H., 53
 Scholderer, J. V., 177
 Scholes, G. E., 145
 Scholle, W., 2
 Schook, D., 66
 Schorland, E., 109
 Schott, G. A., 3
 Schramek, J. M., 251
 Schramm, E. F., 143
 Schramm, J. R., 124
 Schreiber, W. E., 217
 Schriber, C. F., 228
 Schroff, A. H., 99
 Schryver, S. B., 165
 Schuchert, C., 228, 230
 Schuerman, W. H., 225
 Schuette, H. A., 202
 Schulte, E. D. N., 315
 Schulte, H. Von W., 251
 Schulte, T. J., 286
 Schultz, L., 320
 Schultz, W. F., 318
 Schultz, W. H., 326,
 327
 Schultz, O. H., 123
 Schulz, A. J., 4
 Schulz, R. E., 197
 Schulze, H. H. L., 233
 Schumacher, H., 327
 Schumb, 272
 Schunk, O. H., 336
 Schurman, J. G., 122
 Schuster, Sir A., 147
 Schuster, E. H. J., 258
 Schuster, F. V., 154
 Schutze, M., 63
 Schuyler, R. L., 232
 Schwab, S. I., 288
 Schwalm, F. D., 217
 Schwander, Miss E. N.,
 136
 Schwartz, F. W., 316
 Schwartz, C. E., 319
 Schwartz, H. B., 289
 Schwartz, W., 289
 Schwarz, E. A., 87, 332,
 338
 Schwarz, E. H. S., 109
 Schwarz, H., 288
 Schwegler, R. A., 138
 Schweinitz, P. B. de, 27
 Scicluna, H. P., 321
 Scoon, R. M., 273
 Scotchard, G., 10
 Scott, A., 145, 190
 Scott, A. A., 119
 Scott, A. C., 245
 Scott, A. J., 197
 Scott, A. P., 64
 Scott, A. W., 11, 55,
 134
 Scott, C. A., 132, 225,
 297
 Scott, Miss C. A., 41
 Scott, C. R., 228
 Scott, D. C., 254
 Scott, E., 76, 212
 Scott, E. C., 29, 235
 Scott, E. F., 239
 Scott, F. W., 318
 Scott, Miss G. K., 302
 Scott, H., 52
 Scott, J. E., 49
 Scott, J. H., 120
 Scott, J. W., 105, 135
 Scott, Miss M. A., 161
 Scott, M. H., 203
 Scott, P. L., 312
 Scott, R., 32
 Scott, R. D., 143
 Scott, R. F., 46, 50
 Scott, R. J., 67
 Scott, S., 166
 Scott, S. G., 169
 Scott, T. G., 174
 Scott, V. E., 281
 Scott, W., 31, 137, 294
 Scott, W. A., 40, 85, 201
 Scott, W. B., 266, 274
 Scott, W. R., 105
 Scott, H. W. T., 277
 Scourfield, D. J., 190
 Scoville, H. T., 318
 Scoville, G. P., 125
 Scowcroft, W., 207
 Scribner, H. S., 268
 Scroggs, J. W., 245
 Scudder, C. L., 54
 Scudder, N. P., 332
 Scullard, H. H., 158,
 159
 Scurfield, H., 293
 Scurr, C. N., 85
 Scutt, C. A., 212
 Seaborn, E., 196
 Seager, H. R., 233
 Seal, B. N., 43
 Seares, F. H., 262
 Searle, G. F. C., 47
 Searles, Miss H. M., 297
 Searles, S., 332
 Sears, C. E., 99
 Sears, G. W., 281
 Sears, H. J., 99
 Sears, J. B., 300
 Sears, J. E., 183
 Sears, M. L., 281
 Seashore, C. E., 120
 Seaver, F. J., 244
 Seavey, W. A., 31
 Seay, E. T., 225
 Sebastian, L. B., 161
 Secord, G. L., 66
 Secord, Grace W., 66
 Seddon, H. R., 213
 Sedgefield, W. J., 206
 Sedgwick, A. E., 197
 Sedgewick, G. G., 322
 See, Capt. T. J. J., 210
 Seegar, J. K. B. E., 17
 Seelig, M. G., 286
 Seely, F. B., 318
 Seery, F. J., 125
 Segal, L., 29
 Segall, J., 38
 Segal, J. B., 253
 Segar, H. W., 12
 Seiberth, P., 287
 Seidell, A., 336
 Seiler, J. F., 108
 Selbie, W. B., 262
 Selby, A. L., 60
 Selby, F. J., 183
 Seligman, C. G., 150,
 162
 Seligman, E. R. A., 233
 Sell, F. R., 224
 Sellards, A. W., 55
 Sellers, A., 207
 Sellers, C., jr., 266
 Sellers, H., 177
 Sellers, R. R., 308
 Sellery, G. C., 201
 Sellow, G. T., 102
 Selling, L., 99
 Semans, H. M., 76
 Sembower, C. J., 30
 Semple, P., 85
 Sen, D. N., 263
 Sen, N. K., 81
 Sen, P. C., 133
 Sen, R. C., 20
 Senior, H. D., 237
 Senning, J. P., 143
 Senour, F. C., 31
 Senseney, H., 248
 Senter, G., 159
 Sequeira, J. H., 169
 Serabji, R. K., 7
 Setalvad, Sir C. H., 31
 Setchell, W. A., 23
 Seth, J., 91
 Seth-Smith, D., 187
 Seton, R. S., 140
 Seton, W. W., 154
 Seton-Watson, R. W.,
 156, 157
 Settle, G. M., 17
 Sulke, K. J., 125
 Severance, A. D., 68
 Severance, G., 276
 Sevinghaus, W. L.,
 234
 Sewall, E. C., 301
 Seward, A. C., 47, 51
 Seward, H. L., 229
 Seward, S. S., jr., 299
 Sexton, B., 229
 Sexton, P. T., 6
 Seybolt, R. F., 318
 Seyfert, S. S., 27
 Seymour, C., 228
 Seymour, H. J., 85
 Seymour, J. H., 197
 Seymour, P. A., 37
 Seymour, R. J., 77, 78
 Shaad, G. C., 137
 Shadle, A. R., 42, 123
 Shafer, Hon. J. D., 269
 Shafer, R., 18
 Shaffer, P. A., 288
 Shafi, M. M., 130
 Shaftesbury, Rt. Hon.
 Earl of, 21
 Shah, Miss A., 132
 Shah, K. T., 224
 Shah, S., 44
 Shahain, T. K., 27
 Shahan, Rt. Rev. T. J.,
 327
 Shakespear, G. A., 28
 Shambaugh, B. F., 120
 Shanahan, Very Rev.
 E., 327
 Shandelle, H. J., 324
 Shands, A. R., 326, 339
 Shanklin, W. A., 216
 Shanks, L. P., 195, 202
 Shann, E. O. G., 264
 Shannon, E. V., 331
 Shannon, T. J., 286
 Shapleigh, J. B., 288
 Shapley, H., 262
 Shargha, K., 299
 Sharkey, Sir S. J., 148
 Sharkley, Sir S. J., 167
 Sharma, A. K., 263
 Sharman, M. S., 212
 Sharp, C. H. C., 81
 Sharp, D. L., 33, 35
 Sharp, F. C., 201
 Sharp, Hon. H., 295
 Sharp, L. W., 125
 Sharp, Mrs. M., 171
 Sharp, R. F., 187
 Sharpe, F. R., 123
 Sharpe, W. A., 184
 Sharples, A., 128
 Sharrad, J. A., 291

- Shastie, Sir R., 127
 Shastri, L. D., 81
 Shastri, M. H., 45
 Shastri, N. D., 200
 Shastri, R. D., 133
 Shattoek, S. B., 167
 Shattock, S. G., 151, 167
 Shattuck, H. B., 303
 Shang, G. R., 133
 Shave, E. S., 158
 Shaw, A. M., 291
 Shaw, A. N., 219
 Shaw, C. F., 24
 Shaw, C. G., 236
 Shaw, E. A., 211
 Shaw, F., 209
 Shaw, G. E., 295
 Shaw, H. B., 171
 Shaw, J. B., 317
 Shaw, J. E., 309
 Shaw, Eng.-Commr. J. F., 182
 Shaw, L. E., 167
 Shaw, M. A., 120
 Shaw, Sir N., 152, 180
 Shaw, R. S., 90
 Shaw, T. J., 231
 Shaw, W. A., 183
 Shaw, W. C., 115
 Shaw, W. T., 276
 Shea, D. W., 323
 Shea, J. F., 324
 Shealy, E. M., 202
 Sheard, C., 76
 Shearer, Miss E. A., 247
 Shearer, J. S., 122
 Sheavyn, Miss P., 206
 Shedd, S., 276
 Sheedy, G., 79
 Sheehy, R. J., 103
 Sheen, W., 60
 Shields, B. F., 85
 Shell, S., 85
 Shelby, E. P., 237
 Sheldon, E. S., 53
 Sheldon, E. W., 97
 Sheldon, H. C., 34, 35
 Sheldon, H. D., 98, 99
 Sheldon, W. G., 183
 Sheldon, W. H., 115, 123
 Shelford, V. E., 318
 Shellabarger, S., 273
 Shelley, J., 297
 Shelton, C. R., 326
 Shelton, W. H., 268
 Shennan, T., 1
 Shepard, C. J., 77
 Shepard, C. N., 238
 Shepard, E. I., 341
 Shepard, M., 270
 Shepard, Miss M., 268
 Shepard, O., 116
 Shepard, W. K., 229
 Shepard, W. P., 71
 Shephardson, F. L., 114
 Shephard, W. R., 232
 Shepherd, Dorothy B., 40
 Sheppard, A. W., 190
 Sheppard, E. Ellen, 149
 Sheppard, E. J., 190
 Sheppard, G. F., 180
 Sheppard, J. T., 49
 Sheppard, L. A., 177
 Sheppard-Smith, J., 287
 Sherbon, Miss F. B., 137
 Sherburn, G. W., 64
 Sheridan, E., 85
 Sherlock, R. L., 182
 Sherma, A. K., 263
 Sherman, C. E., 77
 Sherman, H. C., 235
 Sherman, H. D., 42
 Sherman, L. A., 143
 Sherman, L. W., 143
 Sherman, P. D., 249
 Sherman, S. P., 317
 Sherman, W. O., 269
 Sherraden, W. H., 250
 Sherrington, C. S., 255, 256, 258
 Sherwood, G. H., 240
 Sherwood, N. P., 137
 Sherwood, W. E., 259
 Shewan, J., 306
 Shields, B. F., 103
 Shields, Miss M. C., 298
 Shields, T. E., 328
 Shimeck, B., 120
 Shimold, J. E., 248
 Shine, J., 85
 Shinn, F. L., 99
 Shipley, Sir A. E., 46, 48, 50
 Shipley, A. M., 16
 Shipley, F. W., 287
 Shipman, H. R., 273
 Shipton, W. D., 287
 Shirlaw, M., 93
 Shirley, H. J., 171
 Shirving, A. A. S., 93
 Shively, Miss M., 199
 Shoemaker, C. G., 326
 Shoemaker, C. W., 332
 Shoemaker, F. C., 75
 Shoemaker, H., 197
 Shoemaker, J. N., 77
 Shore, L. E., 47
 Shore, T. W., 166
 Shorey, E. R., 202
 Shorey, P., 63
 Short, A. R., 39
 Shotwell, J. T., 232
 Shoub, H. L., 336
 Shovelton, S. T., 156, 157
 Show, A. B., 299
 Showerman, G., 201
 Showman, H. M., 70
 Shroff, F. B., 127
 Shull, G. H., 274
 Shulman, L., 197
 Shumway, Bertha M., 262
 Shumway, W., 115
 Shuonok, S. H., 149
 Slutt, F. T., 254
 Shuttlesworth, T. E., 293
 Sibley, F. H., 137
 Sibly, T. F., 89
 Sibree, E., 38, 39
 Siceloff, L. P., 234
 Siedobotham, E. J., 207
 Sidgwick, A., 259
 Sidgwick, Mrs. H., 52, 193
 Sidgwick, N. V., 25
 Sieber, P. R., 269
 Siebert, W. H., 76
 Sieg, J. P., 120
 Sievers, F. J., 276
 Sigerson, G., 85
 Siggins, F. X., 324
 Sihler, E. G., 236
 Sikes, E. E., 50
 Silk, J. F. W., 172
 Sillar, W. C., 92
 Sills, H. H., 49
 Silver, D., 269
 Silver, L. M., 113
 Silverman, A., 269
 Silverman, L. L., 115
 Silvernail, J. P., 282
 Sim, J., 107
 Simanek, G. F., 251
 Simard, A., 278
 Simard, H., 278
 Simers, L. M., 218
 Simkhovitch, V. G., 232
 Simmonds, C., 180
 Simmons, G. E., 253
 Simmons, J. P., 236
 Simmons, Miss L. V. T., 302
 Simms, H., 207
 Simon, C. E., 16
 Simon, Rt. Hon. Sir J. A., 258
 Simonds, W. E., 102
 Simonson, A., 198
 Simonton, T. G., 269
 Simpson, C. A., 327
 Simpson, D. C., 260, 262
 Simpson, F., 319
 Simpson, F. A., 50
 Simpson, F. L., 34, 35
 Simpson, G., 293
 Simpson, G. C., 45, 296
 Simpson, G. C. E., 145
 Simpson, H. C., 309
 Simpson, H. D., 12
 Simpson, H. E., 110
 Simpson, J. C., 219
 Simpson, J. R., 269
 Simpson, J. Y., 95
 Simpson, P., 256, 257
 Simpson, S., 122, 123
 Simpson, W. J., 176
 Simpson, W. J. R., 151, 157, 170, 172
 Sims, S. H., 121
 Sinclair, F. W., 215
 Sinclair, Miss M. E., 249
 Sinclair, T., 21, 22
 Sinclair, W. J., 274
 Sing, C., 10
 Singer, C., 190
 Singer, C. J., 257
 Singer, H. D., 319
 Singewald, J. T., 14
 Singh, B., 133, 299
 Singh, B. A., 127
 Singh, D., 10
 Singh, G., 131, 133
 Singh, H., 10
 Singh, H. B., 10
 Singh, K., 10
 Singh, L. M. G., 132
 Singh, N., 10
 Singh, P., 131
 Singh, R., 280
 Singh, S. B., 132
 Singh, S. G., 112
 Singh, S. N., 112
 Singh, S. P., 112
 Singh, S. R., 112
 Singh, S. S., 112
 Singh, S. T., 112
 Singh, T., 10
 Singleton, C. V., 135
 Singleton, H. S., 174
 Sinnatt, F. S., 209
 Sinnatt, O. S., 157
 Siraj-ud-Din, R., 131
 Sircar, D., 45
 Sircar, K. M., 8
 Sircar, Miss M., 199
 Sircar, The Hon. Sir N., 43
 Sirois, J., 278
 Sirois, L. P., 278
 Sirrine, F. A., 104
 Sissam, C. H., 74
 Sissa, Miss L. M., 280
 Sisson, E. O., 217
 Sisson, E. P., 114
 Sisson, L. E., 106
 Sisson, S., 76
 Sissons, C. B., 309
 Sivaprakasam, D., 131
 Sjogren, O. W., 141
 Skan, S. A., 195
 Skeats, E. W., 213
 Skeel, A. J., 68
 Skeel, Miss C. A. J., 152, 161
 Skeel, R. E., 68
 Skeele, W. F., 196, 198
 Skeels, D., 217
 Skene, A., 214
 Skene, MacGregor, 2
 Skiff, F. J. V., 66
 Skilton, C. S., 138
 Skinner, C. E., 12
 Skinner, C. H., 80
 Skinner, C. R., 211
 Skinner, E. B., 201
 Skinner, G. S., 249
 Skinner, L. T., 142
 Skinner, P. O., 115
 Skirving, A. A. S., 93
 Skoog, A. J., 137
 Slack, A. J., 196
 Slack, H. R., jr., 15
 Slack, S. B., 219
 Slade, R. E., 171
 Slade, W. A., 334
 Sladen, F. D., 177
 Slater, D. A., 151, 160
 Slater, G., 204
 Slater, Miss J. M. W., 52
 Slaughter, H. E., 63
 Slaughter, M. S., 281
 Slaymaker, P. K., 141
 Sleeman, J. H., 98
 Sleeper, H. D., 247
 Sleafel, C. C., 235
 Slemmons, S. M., 229
 Slessor, Major A. K., 269
 Slichter C. S., 201
 Slichter, W. I., 235
 Sloan, S. B., 120
 Sloan, W. H., 300
 Sloane, R. C., 77
 Slocum, F., 275
 Slonaker, J. R., 300
 Slonimsky, H., 14
 Slotees, A., 83
 Sluder, G., 288
 Sluss, A. H., 138
 Small, A. W., 62, 63
 Small, J. K., 244
 Small, W. D. D., 94
 Small, W. M., 109
 Smallwood, J. C., 15
 Smart, E. H., 159
 Smart, J. S., 105
 Smart, W. A. M., 169
 Smart, W. M., 51
 Smeal, G., 92
 Smetham, A., 193
 Smiddy, T., 79
 Smiles, S., 89, 190
 Smiley, F. J., 23
 Smiley, M. T., 144
 Smith, 272
 Smith, A., 25, 234, 278
 Smith, A. H., 178
 Smith, A. J., 85

- Smith, A. L., 257
 Smith, A. L. F., 258
 Smith, A. W., 70, 76, 114, 125
 Smith, B., 182
 Smith, B. T. D., 51
 Smith, C., 286
 Smith, C. A., 202
 Smith, C. C., 254
 Smith, C. G. M., 292
 Smith, Sir C. H., 179
 Smith, C. M., 54
 Smith, C. S., 325, 344
 Smith, C. W., 141
 Smith, D., 209
 Smith, D. E., 233
 Smith, D. K., 312
 Smith, De L., 217, 218
 Smith, D. N., 256
 Smith, D. P., 274
 Smith, D. S., 230
 Smith, E., 167
 Smith, E. B., 273
 Smith, E. H., 51
 Smith, Miss E. H., 24
 Smith, Miss E. M., 197
 Smith, E. R., 302
 Smith, E. S., 288
 Smith, E. W., 114, 299
 Smith, F., 3, 317
 Smith, F. E., 183
 Smith, Miss F. G., 247
 Smith, F. J., 169
 Smith, F. M., 123
 Smith, F. O., 217
 Smith, F. R., 15
 Smith, The Very Rev. Sir G., 1
 Smith, G. A., 104
 Smith, G. B., 64, 168
 Smith, G. E., 150, 155
 Smith, G. G., 22
 Smith, G. H., 229
 Smith, G. M., 201, 309
 Smith, G. O., 309, 329
 Smith, Lt.-Col. G. S., 22c
 Smith, H., 105, 123, 161, 287
 Smith, H. A., 35, 201, 258, 260, 261
 Smith, H. B., 208
 Smith, H. D., 76
 Smith, H. de F., 9
 Smith, H. E., 9
 Smith, H. G., 307
 Smith, H. L., 30, 31, 203
 Smith, H. M., 337
 Smith, Miss H. M., 69
 Smith, H. P., 239
 Smith, H. S. S., 274
 Smith, Hilda W., 40
 Smith, H. W., 253, 336
 Smith, J., 291
 Smith, J. A., 256, 258, 299
 Smith, Col. Sir J. D., 187
 Smith, J. E., 318, 338
 Smith, J. G., 29
 Smith, J. H., 268
 Smith, J. H. E., 190
 Smith, J. J., 304
 Smith, J. L., 92
 Smith, J. L. S., 92
 Smith, J. M. P., 64
 Smith, J. P., 300
 Smith, J. R., 232, 274
 Smith, J. W., 17, 207
 Smith, K. K., 275
 Smith, L., 285
 Smith, L. B., 25
 Smith, L. H., 319
 Smith, L. S., 202
 Smith, M., 235, 246, 263, 324
 Smith, Miss M., 284
 Smith, M. A. B., 113
 Smith, Miss M. E., 33, 135
 Smith, M. L., 142, 251
 Smith, M. J., 125
 Smith, M. P., 41
 Smith, Miss M. S., 52
 Smith, N., 206
 Smith, N. H., 262
 Smith, N. K., 91
 Smith, P. F., 228
 Smith, P. S., 329
 Smith, R. A., 178
 Smith, R. B., 114
 Smith, R. E., 24
 Smith, R. G., 306
 Smith, R. H., 46
 Smith, Miss R. M., 198
 Smith, R. P., 167
 Smith, R. S., 247
 Smith, R. T., 86
 Smith, R. W., 313
 Smith, S., 178
 Smith, S. A., 299
 Smith, S. B., 303
 Smith, Lt.-Col. S. B., 131
 Smith, Miss S. E., 297
 Smith, S. P., 162
 Smith, S. S., 269
 Smith, S. W. J., 28
 Smith, T., 183
 Smith, T. A., 237
 Smith, T. C., 341
 Smith, T. J., 212
 Smith, T. T., 137
 Smith, U. H., 30, 31
 Smith, Miss W., 154, 156
 Smith, W. A., 177
 Smith, W. C., 178
 Smith, W. D., 99
 Smith, W. G., 83, 86, 309
 Smith, W. H., 319
 Smith, W. M., 90, 203
 Smith, W. M., 90
 Smith, W. R., 41
 Smith, Sir W. R., 176
 Smith, W. S., 16
 Smith, W. W., 96
 Smith, Y. B., 235
 Smithells, A., 140, 190
 Smithies, F., 319
 Smithson, G. A., 23
 Smyley, J. G., 83, 84
 Smyser, W. E., 80
 Smyth, C. H., 274
 Smyth, F. R., 171
 Smyth, H. L., 55
 Smyth, H. W., 53
 Smyth, J., 212
 Smythe, J. A., 89
 Smythe, L. B., 83
 Snape, A. E., 58
 Snapp, R. R., 319
 Sneath, E. H., 229
 Snedden, D., 232
 Snell, Miss A. L. F., 297
 Snell, J. F., 220
 Snodgrass, J. McB., 318
 Snook, J. H., 77
 Snow, B. W., 201
 Snow, C. H., 236
 Snow, C. M., 320
 Snow, Miss J. W., 247
 Snow, W. F., 301
 Snowden, E., 326
 Snowden, J. H., 270
 Snyder, A. M., 268, 269
 Snyder, C. D., 15
 Snyder, V., 122
 Soares, T. G., 64
 Sohon, F., 323
 Soiland, A., 197
 Souissat, St. G. L., 275
 Solberg, T., 334
 Sollas, W. J., 256, 257
 Sollman, T., 68
 Solomon, A., 23
 Somers, G. B., 301
 Somers, R. E., 123, 268
 Somervell, D. B., 258
 Somerville, W., 256, 257
 Sommer, F. H., 236
 Sommerville, D., 157
 Sommerville, D. M. Y., 340
 Sondhi, L. G. D., 131
 Sonntag, C. F., 187
 Soper, A. L., 161
 Soper, M. A., 17
 Sopp, F. J., 329
 Sorenson, W., 250
 Sorgatz, F. B., 246
 Sorley, W. R., 48
 Sosman, R. B., 336, 339
 Soule, J. F., 134
 Soulsby, B. H., 178
 Sousey, C. P., 302
 Soutar, G., 284
 Soutar, R. G., 245
 Souter, A., 2
 South, F. W., 128
 South Australia, The Governor of, 3
 Southall, J. P. C., 234
 Southard, E. E., 54
 Southern, L., 293, 294
 Southwell, R. N., 51
 Southwick, G. R., 34
 Southworth, H. E., 197
 Souttar, H. S., 169
 Spaeth, J. D., 272
 Spaeth, J. L., 286
 Spaeth, R. A., 15
 Spalding, A. B., 300
 Spalding, G. D., 134
 Spalding, H. O., 34
 Spalding, W. F., 163
 Spalding, W. R., 54
 Spandau, H. M., 90
 Sparks, E. E., 301
 Spaul, E. A., 159
 Spaulding, E. G., 272
 Spaulding, J. A., 102
 Spaulding, T. C., 217
 Spear, I. J., 16
 Spear, L. M., 211
 Spearing, H. G., 155
 Spearman, C., 151, 155
 Spease, E., 68
 Speelman, J., 249
 Speer, J. B., 217
 Speight, R., 67
 Spence, B. J., 110
 Spencer, C. E., 98
 Spencer, C. S., 281
 Spencer, G., 172
 Spencer, H. R., 16, 76, 171
 Spencer, J. F., 152, 160
 Spencer, L. J., 178
 Spencer, Sir W. B., 215, 306
 Spencer, W. C., 114
 Spencer, W. H., 64
 Spengler, H. T., 90
 Spens, W., 49
 Sperry, F. N., 229
 Sperry, W. L., 57
 Spicer, W. H., 166
 Spicer, W. T. H., 170
 Spiers, A. G. H., 233
 Spiers, F. S., 194
 Spiers, V., 156
 Spilsbury, B. H., 173
 Spinden, H. J., 240
 Spittle, J. T., 49
 Spohr, C. L., 76
 Spohr, Miss W., 233
 Spokes, S., 171
 Spooner, A. R., 20
 Spooner, W. A., 258
 Sprague, A. E., 92
 Sprague, A. W., 253
 Sprague, Miss E. C., 136
 Sprague, E. H., 253
 Sprague, G. C., 237
 Sprague, O. M. W., 55
 Sprague, T. A., 195
 Spratt, H. W., 50
 Sprawson, E., 169
 Sprengling, M., 64
 Sprent, F. P., 177
 Sprigge, J. A., 181
 Spring, F. G., 128
 Spring, S. N., 124
 Springer, G. P., 338
 Springer, S., 1114
 Sprott, Mrs. B., 175
 Spurgeon, Caroline F. E., 150, 160
 Spurs, P. C., 131
 Squier, J. B., 234
 Squire, D. H., 41, 42
 Squire, W. B., 177
 Squires, V. P., 110
 Squires, W. H., 71
 Squirrel, W. J., 111
 Staab, H. H., 61
 Staaf, O. E., 69
 Stable, J. J., 37
 Stabler, H., 329
 Stabler, L. J., 196, 198
 Stacey, H. S., 306
 Stafford, C. M. T., 215
 Stafford, J. G. W., 305
 Stafford, O. F., 99
 Stafford, S. G., 163
 Stafford, W. P., 326
 Stagg, A. A., 63
 Staggall, J. E., 284
 Stahl, Miss M. L., 12
 Staines, H., 158
 Stalham, I. E. F., 293
 Stalker, A. M., 284
 Stallybrass, W. T. S., 257, 259
 Stamp, A. E., 183
 Stampa, L., 257
 Standley, P. C., 331
 Stanfield, R., 94
 Stanford, Sir C. V., 48
 Stang, A. H., 245
 Stanley, E. G., 166
 Stanley, Miss G., 80
 Stanley, G. H., 126
 Stanley, H., 39
 Stanley, J. D., 29
 Stansfield, A., 219
 Stansfield, A. E., 166
 Stanton, H., 296
 Stanton, Miss A., 136
 Stanton, B. L., 213
 Stanton, T. E., 183

- Stanton, T. W., 329, 332
 Stanton, V. H., 47
 Stapf, O., 195
 Stapledon, R. G., 3
 Staples, E. J., 70
 Starbuck, E. D., 120
 Starck, C., 201
 Starin, W. A., 77
 Stark, W. E., 70
 Starkey, T. A., 219, 220
 Starks, Mrs. C. L., 299
 Starks, E. C., 300
 Starling, E. H., 151, 155
 Starr, Miss A. M., 298
 Starr, C. L., 310
 Starr, E. G., 42
 Starr, F., 64
 Starr, F. N. G., 310
 Starr, S. P., 320
 Staveley, A. L., 326
 Staveley, M. C., 38
 Stearns, A. W., 211
 Stearns, C. R., 12
 Stebbins, H. W., 300
 Stebbins, J., 317
 Stebbins, L. W., 24
 Stebinzer, E., 329
 Steckel, T. E., 30
 Stecker, H. F., 302
 Steel-Maitland, Sir A., 162
 Steele, B. D., 37
 Steele, B. L., 276
 Steele, R. B., 225
 Steele, R. M., 4
 Steele, S., 67
 Steen, R. H., 172
 Steenbock, H., 203
 Steffannson, J., 156
 Steffen, E. H., 276
 Stegeman, G., 269
 Steidtmann, E., 202
 Steiger, G. W., 329
 Steik, K. T., 135
 Steindler, A., 121
 Steiner, E. von den, 69
 Steiner, N. F., 251
 Steinfeld, A. M., 77
 Steltz, A., 245
 Stejneger, L., 331
 Stempel, G. H., 30
 Stenning, J. F., 253, 260, 261
 Stenton, F. M., 280
 Stephen, Miss, 52
 Stephen, H., 207
 Stephens, A. C., 88
 Stephens, G., 287
 Stephens, J., 102
 Stephens, J. S., 253
 Stephens, J. W., 207
 Stephens, Lt.-Col. J. W. W., 145, 147
 Stephens, T. C., 82
 Stephenson, C., 287
 Stephenson, H. A., 301
 Stephenson, Col. H. K., 292
 Stephenson, H. T., 30
 Stepp, M. D., 68
 Steppat, J., 152, 160
 Sterenberg, J., 102
 Sterling, C. M., 137
 Sterling, M. W., 136
 Sterling, Miss S. A., 202
 Stern, H., 265
 Sternberg, W. P., 250
 Sterns, C. O., 336
 Sterves, H. R., 233
 Stetson, F. L., 99
 Stetson, R. H., 249
 Steve, W. F., 202
 Steven, A. B., 107
 Stevens, Miss A. P., 297
 Stevens, Miss C. F., 297
 Stevens, D. H., 64
 Stevens, F. L., 317
 Stevens, G. C., 329
 Stevens, H. C., 320
 Stevens, J. S., 252
 Stevens, R., 233
 Stevens, S., 125
 Stevens, W. B., 75
 Stevens, W. C., 137
 Stevens, W. M., 60
 Stevenson, A. H., 235
 Stevenson, G. H. L., 257
 Stevenson, H. N., 251
 Stevenson, J. H., 225
 Stevenson, J. R., 274
 Stevenson, Miss L. S., 298
 Stevenson, O. J., 111
 Stevenson, R. A., 120
 Stevenson, R. T., 80
 Stevenson, T. H. C., 188
 Stevenson, W. B., 106
 Stevenson, Major W. D. H., 33
 Stevenson, W. H., 260
 Stevenson, W. J., 196
 Steward, F. J., 167
 Steward, H. F., 50
 Stewart, Emeritus Professor, 104
 Stewart, A. B., 114
 Stewart, A. W., 22, 105
 Stewart, C. C., 115
 Stewart, C. H., 92
 Stewart, F. C., 104
 Stewart, G. A., 96
 Stewart, G. D., 237, 242
 Stewart, G. N., 68
 Stewart, G. R., 24
 Stewart, G. W., 120
 Stewart, H., 67
 Stewart, H. L., 113
 Stewart, H. W., 203
 Stewart, I. F., 12
 Stewart, Miss I. M., 233
 Stewart, J., 113
 Stewart, J. A., 256, 259
 Stewart, J. D., 306
 Stewart, J. E., 329
 Stewart, J. L., 26, 27
 Stewart, J. McK., 212
 Stewart, Sir J. P., 172
 Stewart, J. W. A., 282
 Stewart, L. B., 96, 310
 Stewart, L. M., 28
 Stewart, M. J., 140
 Stewart, R., 319
 Stewart, R. M., 124, 254
 Stewart, R. R., 280
 Stewart, R. T., 268
 Stewart, W. A., 344
 Stewart, W. F., 77
 Stewart, W. K., 115
 Stewart, W. W., 9
 Stibbe, E. P., 126
 Stieglitz, J., 63
 Stiehm, E. O., 30
 Stiles, C. W., 332, 336
 Stiles, Sir H., 92
 Stiles, P. G., 55
 Still, G. F., 172, 174
 Stillman, S., 300
 Stimpson, E. E., 137
 Stimson, A. M., 336
 Stirling, Sir E. C., 4
 Stirling, J. W., 219
 Stirrup, H. H., 128
 Stitt, E. R., 323
 Stiven, F. B., 249
 Stock, O. L., 308
 Stockard, C. R., 123
 Stockdale, H. F., 106
 Stocker, J. A., 163
 Stocker, J. E., 27
 Stocker, W. N., 259
 Stocking, W. A., 124
 Stockley, W. F. P., 78
 Stockman, R., 105
 Stocks, E. V., 89
 Stocks, J. L., 260
 Stoddart, C. W., 302
 Stoddart, W. H. B., 167
 Stoek, H. H., 318
 Stoff, W. E., 250
 Stogden, Miss M. B., 81
 Stokes, A. C., 142, 251
 Stokes, A. P., 227
 Stokes, G. J., 79
 Stokes, J. F. G., 119
 Stokes, W. R., 16
 Stokey, Miss A. G., 298
 Stoldal, O. O., 137
 Stoltenberg, C. S., 300
 Stoltz, R. B., 76
 Stone, A. L., 203, 217
 Stone, C. G., 257
 Stone, C. W., 68
 Stone, E. C., 116
 Stone, H. B., 17
 Stone, H. F., 235
 Stone, J. L., 124
 Stone, Miss L. W., 159
 Stone, R. W., 18, 329, 339
 Stone, Preb. W. H., 161
 Stoney, G. G., 209
 Stopes, M. C., 156
 Stopford, J. S. B., 207
 Stops, W. J. T., 113
 Storck, H. I., 324
 Story, F., 19
 Story, W. R., 343
 Stott, W., 147
 Stolz, H. P., 299
 Stouffer, E. B., 137
 Stout, A. B., 244
 Stout, G. F., 92, 284
 Stout, O. V. P., 141
 Stout, Sir R., 340
 Stout, S. E., 30
 Stovall, W. D., 201
 Stover, Miss M. E., 268
 Stover, W. G., 76
 Stowell, W. A., 9
 Strachan, Miss I. D., 305
 Strachan, L. M., 29
 Strachey, Miss J. P., 52
 Stradling, R. E., 29
 Strahan, Sir A., 182
 Strahan, J. A., 22
 Strange, Lt.-Col. E. F., 179
 Strangeways, T. S. P., 47
 Stratton, A., 155
 Stratton, F. M. J., 47, 49, 51
 Stratton, G. M., 23
 Stratton, G. W., 137
 Straub, J., 98, 99
 Strayer, G. D., 232
 Streetfield, F., 259
 Streeter, B. H., 257
 Stricklen, E. G., 24
 Strieby, W., 74
 Strine, H. F., 323
 Stritch, M. I., 286
 Stroebe, 271
 Strobel, E. R., 15
 Strömberg, G., 262
 Stromquist, C. E., 135
 Stromsten, F. A., 120
 Strong, A. H., 282
 Strong, A. T., 212
 Strong, Miss B., 247
 Strong, F., 136
 Strong, G. F., 70
 Strong, J., 140
 Strong, J. E., 280
 Strong, K., 277
 Strong, O. S., 235
 Strong, R. P., 54
 Strong, T. B., 255, 259
 Stroock, S. M., 239
 Stroud, H., 89
 Stroup, F. P., 265
 Struck, 272
 Struck, F. T., 302
 Strunk, W., 122
 Struthers, J. W., 93
 Stryker, C. W., 11
 Stuart, A. M., 1, 2
 Stuart, Hon. C. A., 96
 Stuart, D. C., 275
 Stuart, D. R., 272
 Stuart, H., 45
 Stuart, H. W., 299
 Stuart, M., 45
 Stuart, Sir T. A., 306
 Stuart, W. J., 93
 Stubbs, G., 180
 Studdiford, W. E., 234, 237
 Studer, P., 256
 Stufi, F. A., 143
 Sturgis, C., 123
 Sturgis, J. W., 245
 Sturley, A. A., 342
 Sturmer, J. W., 265
 Sturmes, W., 180
 Sturtevant, A. M., 136
 Sturtevant, E. H., 233
 Subotic, D., 157
 Subtahmanyadyen, V., 223
 Sudler, M. T., 137
 Sugden, E. H., 215
 Sugden, S., 159
 Sunawarday, Hon. A. Al.-M., 45
 Suhul, M., 44
 Sullivan, C. T., 219
 Sullivan, J., 6
 Sullivan, J. D., 6, 324
 Sullivan, L. R., 240
 Sullivan, R. Y., 329
 Sullivan, W. E., 211
 Sullivan, W. G., 201
 Sullivan, W. W., 137
 Sulzberger, Hon. M., 265
 Summerby, R., 220
 Summers, C. L., 16
 Summers, H. S., 213
 Summers, J. E., 251
 Summers, W. C., 292
 Sumner, F. B., 23
 Sumner, H., 146
 Sumner, J. B., 123
 Sumner, W. A., 203
 Sunderville, E., 124
 Super, R. C., 71
 Surfraz, S. A., 32
 Surgeon, C. F. E., 160
 Suri, L. M. C., 131

- Suri, S. R., 126
 Surveyor, E. F., 219
 Sutcliffe, Miss D., 29
 Sutherland, Lt.-Col. D. W., 129, 130, 131
 Sutherland, G. K., 297
 Sutherland, J. P., 33, 34
 Sutherland, L. R., 284
 Sutherland, Miss M. M. J., 107
 Sutherland, Lieut.-Col. W. D., 45
 Suttie, R. H., 229
 Sutton, F., 329
 Sutton, L. H., 326
 Sutton, R. L., 137
 Svensen, C. L., 77
 Swahlen, P. H., 286
 Swain, A. E., 300
 Swain, G. F., 55
 Swain, H. L., 229
 Swain, I., 78
 Swain, J., 39
 Swales, B. H., 332
 Swan, H. C., 116
 Swan, T. W., 227, 229
 Swanson, W. W., 291
 Swanton, J. R., 332
 Swanwick, K. F., 37
 Swart, J., 74
 Swartz, C. K., 14
 Swartzel, K. D., 76
 Swayne, W. C., 39
 Sweeney, Miss A. L., 138
 Sweet, A. H., 123
 Sweet, E. G., 249
 Sweet, G., 213
 Sweetland, C. S., 275
 Sweetser, A. R., 99
 Sweetser, E. O., 287
 Sweetser, H. P., 253
 Sweetser, W. J., 253
 Swenelhart, J. H., 202
 Swenk, M. H., 142
 Swenson, Miss J., 218
 Swett, O. D., 325
 Swezey, G. D., 142
 Swezey, O. K., 119
 Swift, A. L., jr., 239
 Swift, C. H., 64
 Swift, E. J., 287
 Swift, H., 4
 Switt, H. F., 123
 Swindler, J. A., 302
 Swingle, W. T., 332
 Swinnerton, H. H., 248
 Swinney, E. E., 202
 Swisher, C. C., 325
 Swisher, C. L., 279
 Switzer, F. G., 125
 Swope, B. A., 268
 Sy, A. P., 42
 Sykes, Major-General Sir F. H., 180
 Syling, P., 270
 Sylvester, R. H., 120
 Sym, W. G., 92
 Symmers, D., 237
 Symmers, W. St. C., 21, 22
 Symonds, Sir C. J., 148
 Symons, H., 177
 Synder, R. G., 235
 Syngue, J. L., 83
 Taber, H., 343
 Taft, A. I., 249
 Taft, Helen H., 40
 Taft, L., 63
 Taft, W. H., 229
 Tagg, H. F., 96
 Taggart, A. F., 235
 Taheruddin, M., 44
 Tainter, F. J., 286
 Tait, J., 219
 Tait, W. D., 219
 Talbot, A. N., 318
 Talbot, Miss E. B., 297
 Talbot, Miss M., 63, 297
 Talbot, P., 25
 Tallman, Miss L., 233
 Tamblын, W. F., 195
 Taneyhill, C. L., jr., 15
 Tanger, J., 302
 Tanner, J. H., 122
 Tanner, J. R., 50, 51
 Tanqueray, F. J., 234
 Tansley, A. G., 48
 Tapley, G. H., 115
 Tappan, F. G., 245
 Taqi, S. G., 263
 Tarleton, F. A., 82
 Tarman, F. E., 245
 Tarrant, H. L. B., 180
 Tarun, W., 16
 Taschereau, R., 221, 278
 Tashiro, S., 64
 Tasker, H. L., 171
 Tasmania, The Governor of, 118
 Tassin, A. De V., 233
 Tate, F. G. H., 180
 Tate, R. W., 82, 83
 Tatlock, J. S. P., 299
 Tatlow, W., 83
 Tattersall, C. W. E., 208
 Tattersall, G., 264
 Tattersfield, F., 282
 Tatum, A. L., 64
 Taunan, M. L., 32
 Taussig, A. E., 288
 Taussig, F. W., 53
 Taverner, E., 287
 Tavernetti, T., 25
 Tawney, R. H., 257
 Taylor, A., 287
 Taylor, A. E., 284
 Taylor, A. N., 237
 Taylor, A. S., 123
 Taylor, A. T., 148
 Taylor, C. W., 143
 Taylor, D. L., 323
 Taylor, E., 202
 Taylor, E. C., 230
 Taylor, E. H., 83
 Taylor, E. W., 54
 Taylor, F. E., 157
 Taylor, F. L., 142
 Taylor, F. O., 242
 Taylor, G., 173
 Taylor, G. L., 50
 Taylor, H. C., 234, 333
 Taylor, H. S., 274
 Taylor, Miss J., 37
 Taylor, J., 170
 Taylor, J. A., 110
 Taylor, J. J., 163
 Taylor, J. M., 114
 Taylor, J. P., 115
 Taylor, J. R., 33, 35, 76
 Taylor, J. W., 12, 110, 326
 Taylor, L. H. E., 177
 Taylor, Miss M. E., 297
 Taylor, Miss M. E. S., 98
 Taylor, Miss M. G. D., 303
 Taylor, O. M., 104
 Taylor, R., 293
 Taylor, R. L., 341
 Taylor, R. T., 16
 Taylor, S. N., 38
 Taylor, W., 202
 Taylor, W. A., 333
 Taylor, W. M., 246
 Taylor, W. R., 309
 Taylor, W. S., 302
 Taylor, W. W., 92
 Teacher, J. H., 105
 Teago, F. J., 145
 Teale, F. H., 171
 Tedder, H. R., 193
 Teece, R., 306
 Teeters, W. J., 121
 Teggart, F. J., 23
 Telford, E. D., 207
 Temperley, H. W. V., 48
 Temple, Miss A., 65
 Temple, C. A., 312
 Templin, O., 136
 Ten Broeke, J., 313
 Tennant, F. R., 50
 Tennant, J. S., 340
 Tennent, D. H., 41
 Tenney, A. A., 233
 Te Poel, L. T., 250
 Taman, L. M., 299
 Terrell, R. C., 245
 Terrill, A. C., 137
 Territle, V., 321
 Terry, B. F., 63
 Terry, B. T., 225
 Terry, C. S., 2
 Terry, C. T., 235
 Terry, Miss E. M., 64
 Terry, E. M., 201
 Terry, R. J., 288
 Tewkesbury, W. D., 323
 Textor, 271
 Thacher, H. C., 235
 Thacher, Mrs. J. S., 100
 Thacher, J. S., 234
 Thacher, W. F. G., 99
 Thacher, C. R. A., 51
 Thadani, N. V., 81
 Thakur, A., 263
 Thallon, 271
 Thatcher, R. W., 289
 Thateher, W. S., 51
 Thayer, C. S., 117
 Thayer, F., 277
 Thayer, H. W., 273
 Thayer, W. C., 26
 Thayer, W. R., 336
 Thayer, W. S., 14
 Theiler, Sir A., 252
 Theiberg, E. H., 271
 Theobald, F. V., 150, 344
 Theobald, S., 15
 Theodosius, H. G., 88
 Theisger, His Excellency the Rt. Hon. Sir F. J. N., 43
 Therd, W., 169
 Thilly, P., 122
 Thirkill, H., 49
 Thistles, W. B., 310
 Thoday, D., 58
 Thole, B., 159
 Tholen, E. F., 198
 Thom, D. R., 1
 Thom, W. C., 338
 Thomas, Sir A. G., 3
 Thomas, A. O., 82, 120
 Thomas, Judge A. P., 145
 Thomas, Miss A. R., 339
 Thomas, A. W., 235
 Thomas, C., 52
 Thomas, C. C., 15
 Thomas, C. F., 70
 Thomas, C. W., 70, 235
 Thomas, D., 3
 Thomas, E. J., 51
 Thomas, Miss E. N., 156
 Thomas, F. W., 152, 155
 Thomas, G., 264
 Thomas, H., 177, 295
 Thomas, H. A., 308
 Thomas, H. B., 320
 Thompson, H. C., 124
 Thomas, H. H., 51, 182, 186
 Thomas, H. M., 15
 Thomas, H. W., 147
 Thomas, J. H., 151, 155
 Thomas, J. J., 68
 Thomas, J. O., 13
 Thomas, J. S., 145
 Thomas, L. F., 287
 Thomas, Miss M., 76
 Thomas, M. C., 40
 Thomas, O., 178
 Thomas, P. G., 152, 156, 160
 Thomas, R. F., 253
 Thomas, S. H., 81
 Thomas, T. P., 18
 Thomas, W. D., 291
 Thomas, W. E., 12
 Thomas, W. N., 29
 Thomas, W. S., 26
 Thomas, W. T., 145
 Thompson, 271
 Thompson, A. M., 269
 Thompson, A. R., 168
 Thompson, A. S., 11
 Thompson, B. H., 142
 Thompson, B. McC., 12
 Thompson, C. D., 8
 Thompson, C. H., 257, 261
 Thompson, C. M., 60
 Thompson, D' A. W., 285
 Thompson, D. W., 284
 Thompson, E. N. S., 120
 Thompson, F. C., 294
 Thompson, E. J., 20
 Thompson, G., 253
 Thompson, G. E., 87
 Thompson, G. F., 319
 Thompson, G. J., 270
 Thompson, G. R., 193
 Thompson, G. S., 316
 Thompson, H., 231
 Thompson, H. D., 274
 Thompson, H. M., 59
 Thompson, H. Y., 187
 Thompson, J., 340
 Thompson, J. L., 24
 Thompson, J. L., 326
 Thompson, J. M., 258
 Thompson, J. O., 10
 Thompson, J. R., 293
 Thompson, J. W., 63
 Thompson, K. O., 70
 Thompson, R. C., 281
 Thompson, R. L., 286
 Thompson, R. N., 217
 Thompson, R. S., 293
 Thompson, S., 29, 74, 196
 Thompson, T., 169, 174
 Thompson, W., 208
 Thompson, W. H., 9
 Thompson, W. O., 75
 Thompson, W. P., 291

INDEX TO NAMES

- Thompson, W. Y., 251
 Thomson, A., 93, 253, 256
 Thomson, G., 107
 Thomson, G. H., 88
 Thomson, G. K., 113
 Thomson, G. P., 49
 Thomson, H. A., 92
 Thomson, H. C., 173
 Thomson, H. J., 284
 Thomson, H. N., 322
 Thomson, J. A., 2
 Thomson, J. G., 176
 Thomson, Sir J. J., 50, 182, 184, 185
 Thomson, J. O., 29
 Thomson, J. S., 207
 Thomson, R. B., 309, 312
 Thomson, Sir St. C., 172
 Thornburg, C. L., 26
 Thornburn, L. C., 188
 Thornburn, W., 207
 Thorndike, A. H., 232
 Thorndike, E. L., 233, 241
 Thorndike, L., 69
 Thorndike, P., 54
 Thorndike, T. W., 211
 Thorne, Miss M., 174
 Thorne, P. L., 236
 Thornley, A., 305
 Thornsbys, P., 164
 Thornton, A. W., 219
 Thornton, D. D., 198
 Thornton, F. A., 286
 Thornton, G. E., 277
 Thornton, H. G., 283
 Thornton, L. H. D., 173
 Thornton, W. M., 89
 Thornton, W. O. W., 14
 Thornycroft, F. J., 159
 Thorpe, Sir E., 199
 Thorpe, F. N., 268, 269
 Thorpe, J. F., 165, 182
 Thorstenberg, E., 99
 Thowaldson, T., 291
 Thrift, H., 83
 Thrift, W. E., 83
 Thring, D. T., 257
 Thro, W. C., 123
 Throckmorton, A. H., 68
 Thurn, Sir E., 191
 Thurnau, H. C., 136
 Thursfield, H., 166
 Thursfield, J. H., 174
 Thurston, E. D., jr., 235
 Thurston, E. S., 229
 Thurston, F. S., 180
 Thurston, H. B., 248
 Thurston, W. H., 142
 Thwing, C. F., 67
 Thyng, F. W., 237
 Thynne, The Hon. A. J., 37
 Tibbetts, H. M., 114
 Tice, F., 310
 Tidy, H. L., 169
 Tietz, H., 58
 Tizert, H. M., 225
 Tilden, C. J., 15
 Tilden, F. W., 30
 Tilden, Sir W. A., 190
 Tilder, C. J., 223
 Tilleston, R. R., 74
 Tilleston, W., 229
 Tillet, W. F., 225
 Tilley, A. A., 49
 Tilley, H., 171
 Tillman, W. J., 196
 Tillyard, F., 29
 Tillyard, H. J. W., 126
 Tilney, F., 234
 Tilroe, W. E., 198
 Timberman, A., 76
 Tims, H. W. M., 152, 160, 175
 Tin, M., 279
 Tindall, W. B., 314
 Tinfeld, F. B., 36
 Tingelstad, J., 110
 Tingle, Miss L., 99
 Tinker, C. B., 228
 Tinkler, C. K., 151
 Tinto, J. F., 157
 Tipper, G. H., 45
 Tisdale, H. J., 291
 Titchner, E. B., 122
 Tizard, T. H., 257
 Tobey, E. R., 253
 Tocher, J. P., 2
 Tod, H., 169
 Tod, M. N., 257
 Todd, A. H., 168
 Todd, C. C., 276
 Todd, D., 10
 Todd, F. A., 305
 Todd, H. A., 232
 Todd, H. C., 246
 Todd, J. A., 257
 Todd, J. B., 92
 Todd, J. E., 22, 113, 137
 Todd, J. W., 110
 Todd, M. N., 256
 Todd, O. J., 322
 Todd, T. W., 68
 Toelle, J. H., 253
 Toews, P., 209
 Tolin, T., 59
 Toll, C. H., 10
 Tomlinson, A., 264
 Tomlinson, F. R., 131
 Tolman, A. H., 63
 Tolman, C. F., jr., 300
 Tolman, H. C., 224
 Tomhave, W. H., 302
 Tompkins, L. J., 236
 Tondori, F. A., 323, 324
 Tonki, M. M. A., 44
 Tonks, H., 150, 155
 Tonks, O. S., 271
 Tonnochy, A. B., 178
 Toohey, J. T., 324
 Toohy, J. M., 27
 Tooker, N. B., 274
 Toole, W., 111
 Tooth, H. H., 166
 Toothaker, C. R., 267
 Topley, W. W. C., 170
 Torrence, F. M., 303
 Torrens, J. A., 168
 Torrey, C. C., 228
 Torrey, J. C., 123
 Tory, H. M., 96
 Tosdal, H. R., 34
 Tossell, M. W., 163
 Tottingham, W. E., 203
 Totton, A. J., 178
 Touceda, E., 315
 Tough, Miss M., 12
 Toumey, J. W., 227, 229
 Toupin, R., 220
 Tout, T. F., 206
 Tovey, J. R., 298
 Tower, O. F., 68
 Tower, R. W., 240, 241
 Towles, O., 61
 Towne, E. T., 110
 Townend, H., 2
 Townley, S. D., 300
 Townsend, C. E., 125
 Townsend, C. H. T., 332
 Townsund, E. J., 317
 Townsend, H. G., 247
 Townsend, J. S. E., 256, 258
 Townsend, L. L., 202
 Townshend, Hon. Sir C., 342
 Toy, W. D., 61
 Toynbee, A. J., 151, 156
 Tozzer, A. M., 54
 Trabue, M. R., 233
 Tracey, J. I., 229
 Tracy, F., 309
 Tracy, J. C., 228
 Tracy, W. D., 235
 Franer, F. W., 281
 Trauseau, E. N., 76
 Traphagen, F. W., 279
 Traquair, R., 219
 Traum, J., 24
 Trautmann, W. D., 70
 Treadgold, W. M., 310
 Treadwell, A. L., 271
 Treat, Miss N., 31
 Treat, P. J., 299
 Treat, C. C., 178
 Prelease, W., 317
 Trefall, Sir R., 182
 Tremblay, A., 278
 Trench, W. F., 83
 Trendell, P. G., 179
 Trent, W. P., 232
 Treston, H. J., 78
 Treudley, F., 12
 Trevan, J., 166
 Trevelyan, Sir E. J., 255, 258
 Trevor, J. E., 122
 Trewhy, F. J., 166
 Tribe, Miss M., 157
 Trilling, Miss B. M., 201
 Trilling, Miss M. B., 65
 Trimble, H. C., 110
 Trimble, W. B., 237
 Trimble, W. K., 137
 Tripp, M. O., 253
 Troimov, M. Y., 206
 Troostwyk, I., 230
 Trotter, W., 171
 Trotter, W. F., 292, 293
 Trow, A. H., 59
 Trowbridge, A., 274
 Trowbridge, A. C., 120
 Trowbridge, D. S., 236
 Troy, H. C., 124
 True, A. C., 333
 True, G. H., 24
 True, W. P., 331
 Truman, C. E., 161
 Trumpler, R., 270
 Truog, E., 203
 Truscott, S. J., 165
 Tryon, D. W., 247
 Tryon, H. H., 239
 Tryon, R. M., 65
 Tubby, A. H., 172
 Tuck, Miss A. M., 161
 Tucker, A. M., 297
 Tucker, C. A., 17
 Tucker, Emma C., 18
 Tucker, E. F., 99
 Tucker, F. G., 277
 Tucker, G. D. R., 177
 Tucker, J. I., 245
 Tucker, R. H., 223
 Tucker, R. O., 225
 Tucker, R. W. E., 58
 Tucker, S. A., 235
 Tucker, W. M., 76
 Tudor, J. H., 302
 Tufts, J. H., 63
 Tufts, W. P., 25
 Tuke, Miss, 160
 Tuke, Mrs. M. J., 148
 Tulloch, W. J., 234
 Tuncliffe, F. W., 172
 Tupper, J. W., 90
 Tupper, P. Y., 288
 Turberville, A. S., 19
 Turbot, E., 278
 Turkhud, D. A., 33
 Turley, L. A., 245
 Turquet, M., 161
 Turbull, G. S., 100
 Turnbull, H. M., 151, 169
 Turnbull, Miss J., 36
 Turnbull, J. M., 322
 Turnbull, W. D., 77
 Turneure, F. E., 202
 Traum, A. E., 281
 Turner, Miss A. H., 297
 Turner, A. J., 209
 Turner, A. L., 93
 Turner, B. E., 156
 Turner, C. E., 211
 Turner, C. H., 255, 258
 Turner, D., 93
 Turner, E. O., 102
 Turner, F. J., 53
 Turner, G. G., 89
 Turner, H. G., 27
 Turner, H. H., 186, 256, 258
 Turner, H. M., 229
 Turner, H. W., 173
 Turner, J. G., 175
 Turner, J. R., 237
 Turner, L. B., 49
 Turner, L. M., 23
 Turner, P., 167
 Turner, T., 28
 Turner, W., 172
 Turner, W. A., 172
 Turner, W. E. S., 293
 Turnure, P. R., 123
 Tuttle, A. H., 77
 Tuttle, E. W., 197
 Tuttle, C. A., 216
 Tuttle, G. A., 235
 Tuttle, G. M., 238
 Tuttle, H. N., 110
 Tuttle, J. B., 242
 Tuttle, T. D., 137
 Tuttle, W. F., 66
 Tweedie, C., 92
 Tweedie, E. R., 200
 Tweedie, W. M., 283
 Tweedy, E. H., 86
 Tweedy, H. H., 229
 Twelmow, J. A., 144, 183
 Twenhofel, W. H., 201
 Twig, Miss E. A. N., 28
 Twiss, G. R., 77
 Tylecote, C. B. L., 260
 Tylecote, F. E., 207
 Tyler, A. F., 251
 Tyler, Miss A. S., 68
 Tyler, H. G., 236
 Tyndall, A. M., 39
 Tyrrell, G. W., 165
 Tyrrell, W., 167
 Tyrrell-Green, E., 134
 Tyson, F. D., 268, 269
 Tzyzer, E. E., 36, 54

- Udal, N. R., 127
 Udall, D. H., 124
 Uglow, W. L., 322
 Uhler, H. S., 229
 Uhlis, L. F., 137
 Ullah, B., 131
 Ullman, B. L., 120
 Ullmann, H. M., 27
 Ullsperger, H. W., 203
 Ulman, J. N., 17
 Ulrey, A. B., 197, 198
 Ulrich, D., 213, 214
 Ulrich, E. O., 339
 Ulrich J. L., 328
 Ulsaver, E. S., 235
 Undergood, P. H., 125
 Underhill, A. J., 16
 Underhill, F. H., 291
 Underhill, F. P., 229
 Underhill, J. E., 258, 261
 Underhill, G., 108
 Underhill, L. K., 24
 Underwood, A. C., 291
 Underwood, J. H., 217
 Unstead, J. F., 159
 Unthank, H. W., 159
 Unwin, G., 206
 Unwin, W. C., 147
 Upham, J. H. J., 76
 Upson, F. W., 143
 Upton, C. B., 234
 Upton, G. B., 125
 Upton, W. T., 249
 Urban, W. M., 116
 Ure, P. N., 280
 Urquhart, J. C., 231
 Urquhart, F. F., 257
 Urwick, E. J., 156, 169
 Urwick, E. J. S., 157
 Usher, A. P., 123
 Usher, F. L., 224
 Usher, R. G., 287
 Usry, E. L., 76
- Vachha, F. B., 32
 Vachon, A., 278
 Vadboncoeur, E., 222
 Vaile, R. S., 24
 Valente, J., 268
 Valentine, C. W., 29
 Valentine-Richards, A. V., 50
 Valenza, S. R., 198
 Valetti, A., 206
 Valin, C., 221
 Vallee, A., 278
 Van Arsdale, Miss M. B., 233
 Van Biesbroeck, G., 64
 Van Braam, P., 304
 Vance, Capt. P. T., 64
 Van De Linde, F., 127
 Van den Ven, P. J. J., 272
 Van de Put, A., 179
 Vanderbuult, A. T., 237
 Vanderstempel, A. S., 197
 Van der Vries, J. N., 137
 Van der Zee, J., 120
 Van Dyke, E. C., 24
 Van Dyke, H., 273
 Van Dyke, P., 272
 van Epps, C., 121
 Van Es, L., 142
 Van Etten, O. T., 197
 Van Hagen, I. F., 202
 Van Hoesen, H. B., 273
 Van Hook, J. M., 31
- Van Hook, Le R., 233
 Van Horn, F. R., 70
 Van Houbloom, 259
 Vanier, G., 220, 278
 Van Ingen, G., 274
 Van Maanen, A., 262
 Van Meter, Miss A. R., 76
 Van Metre, T. W., 233
 Van Name, R. G., 229
 Van Nest, J. S., 274
 Van Norman, H. E., 24
 Van Nostrand, J. J., 24
 Vanorden, H. F., 137
 Van Ornum, J. L., 287
 Van Orstrand, C. B., 329
 Van Rensselaer, Miss M., 124
 Van Saun, S. W., 235
 Van Slyke, L. L., 104
 Van-Tuyt, F. M., 108
 Van Valzah, R., 203
 Van Vleck, E. B., 201
 Van Vleck, W. C., 326
 Van Woert, P. T., 234
 Varder, R. W., 109
 Varian, M. G., 198
 Varkey, C. J., 210
 Varma, S., 126
 Varnum, W. H., 201
 Vashaldea, A. A., 328
 Vass, A. E., 135
 Vassallo, E. C., 321
 Vaswani, S. P., 45
 Vaughan, H. H., 143
 Vaughan, T. H., 176
 Vaughan, T. W., 329, 332
 Vaughan-Sawyer, Mrs. E., 175
 Vaughn, D. D., 34
 Vaux, C. B., 265
 Veatch, F. M., 138
 Veazy, W. R., 70
 Veblen, O., 274
 Veeder, B. S., 288
 Veer, A. Vander, 6
 Veglia, F., 252
 Veilnuey, F. J., 25
 Veitch, G. S., 144
 Velankar, H. D., 32
 Venable, F. P., 61
 Venkataraman, T. S., 72
 Venkateswarar, R., 279
 Venn, Miss H., 37
 Verbruycke, J. R., jr., 339
 Verco, Sir J. C., 4, 5
 Verdi, F. W., 229
 Verhooff, F. H., 54
 Vernier, C. G., 301
 Vernon, H. M., 256, 257, 258
 Vesey, W. T., 49
 Veyers, G. M., 187
 Vichert, J. F., 114
 Vick, R. M., 166
 Vickers, D., 292
 Vickers, K. H., 89
 Victoria, Sister Mary, 13
 Vidricaire, E., 222
 Vidyabhusana, M. S. C., 46
 Vidyabinod, P. K., 292
 Viljoen, P. R., 272
 Villasante, J. M., 157
 Villeneuve, A., 221
 Vincent, H. E., 149
- Vincent, J. M., 14
 Vincent, W., 293
 Viner, J., 14
 Vines, S. H., 256, 258
 Vinogradoff, Sir P., 255, 259
 Virolle, E., 220
 Virtue, G. O., 141
 Vivian, A., 76
 Vivian, A. C., 182
 Voegtlin, C., 336
 Voelcker, A. F., 173, 174
 Voelcker, E. W., 193
 Voelcker, J. A., 189
 Vogel, K. M., 235
 Vogt, A. S., 310
 Voigt, Miss I. E., 11
 Vold, L., 110
 Volland, R. H., 121
 Von Engeln, O. D., 123
 Von Hügel, Baron A., 52
 Von Neumeyer, C. D., 23
 Von Schrenk, H., 289
 Von Schulte, H., 250
 Vonweller, O. A., 306
 Voorhees, J. H., 125
 Voorhies, E. C., 25
 Vos, B. E., 30
 Vos, G., 274
 Vose, F. H., 70
 Voss, E. K. J., 201
 Voss, J. H., 245
 Votaw, C. W., 64
 Vredenburg, E. W., 45
 Vreeland, W. U., 272
 Vroom, F. W., 342
 Vulliamy, E. O., 51
 Vulte, H. T., 233
- Wace, H. C., 259
 Wachsmann, S., 234
 Waddell, B. H., 11
 Wade, E. B. H., 42
 Wade, Rev. G. W., 134
 Wade, H., 93, 94
 Wade, J. O. D., 60
 Wade-Gery, H. T., 260
 Wadia, A. R., 224
 Wadia, D. N., 126
 Wadia, P. A., 32
 Wadley, H. W. A., 342
 Wager, C. H. A., 248
 Wager, H. A., 472
 Wagner, A. F., 198
 Wagner, E. H., 287
 Wagner, F. C., 308
 Wagner, G., 201
 Wagstaff, H. McG., 61
 Wahhab, A. M. F., 44
 Wahlin, G. E., 318
 Waite, C. W., 293
 Waite, F. C., 68
 Waite, H. H., 142
 Waites, Miss M. C., 297
 Waking, G. H., 259
 Watcott, C. D., 331-332
 Walden, A. F., 258
 Walden, P. T., 229
 Waldo, E. H., 318
 Waley, A. D., 178
 Walker, A. L., 235
 Walker, A. T., 136
 Walker, C., 29
 Walker, C. H., 39
 Walker, C. L., 125
 Walker, D., 89
 Walker, E., 257, 142
 Walker, E. A., 58
 Walker, E. D., 303
- Walker, E. M., 112, 257, 309
 Walker, E. W. A., 256, 257
 Walker, F. C., 287
 Walker, G. T., 296
 Walker, H., 45, 134
 Walker, Miss H., 29
 Walker, J., 91, 190
 Walker, J. B., 224
 Walker, J. C., 203
 Walker, Commander J. J., 188
 Walker, J. W. T., 172
 Walker, L., 22, 143
 Walker, M., 12, 209
 Walker, Miss M. L., 92
 Walker, N., 93
 Walker, N. W., 61
 Walker, P. F., 136, 137
 Walker, R. H., 80
 Walker, T. L., 309
 Walker, W., 94, 159, 229
 Walker, W. J., 209
 Walker, W. K., 262
 Walker, W. O., 313
 Walkom, A. B., 37
 Wall, A., 67
 Wall, T. F., 293
 Wallace, C., 123
 Wallace, Sir C., 166
 Wallace, D., 93
 Wallace, Miss E., 64
 Wallace, F. H., 311
 Wallace, G. B., 237
 Wallace, H. T., 128
 Wallace, J. O., 269
 Wallace, M. W., 309
 Wallace, P. A., 7
 Wallace, P. M., 149
 Wallace, R., 91
 Wallace, R. S., 212
 Wallace, T. A., 286
 Wallace, W. J., 246
 Wallace, W. S., 313
 Wallas, G., 148, 151, 162
 Wallen, Miss Z., 298
 Waller, A. D., 151
 Waller, C. C., 195
 Waller, J. C., 344
 Waller, J. F., 131, 225
 Waller, Miss M. D., 175
 Waller, O. L., 276
 Walley, W. E., 165
 Wallgren, A. B., 268, 269
 Wallis, C. E., 172
 Wallis, E. W., 177
 Wallis, J. P. R., 272
 Wallis, R. L. M., 166
 Walls, Miss C., 80
 Walmsley, A. T., 150
 Walmsley, Rt. Rev. J., 101
 Walmsley, R. M., 147, 164
 Walmsley, T., 22
 Walradt, H. F., 76
 Walsh, Miss S., 199
 Walsh, T., 103
 Walsh, W. F., 237
 Walsh, His Grace the Most Rev. W. J., 84
 Walsham H., 166
 Walshe, F. M. R., 171
 Walter, Mrs. A. H., 73
 Walter, F. P., 88
 Walter, H., 218
 Walter, H. E., 73, 72, 275

INDEX TO NAMES

- Walter, P. A. F., 290
 Walters, F. P., 257
 Walters, H. B., 178
 Walters, R., 26, 27
 Walters, W. C. F., 150
 156
 Walton, A. J., 169
 Walton, F. W., 157
 Walton, H. J., 16
 Walton, J. H., 201
 Walton, T. O., 108
 Walton, W. R., 338
 Walworth, G., 19
 Walz, J. A., 53
 Wambaugh, E., 55, 68
 Wandless, H. W., 237
 Warburton, C., 189
 Warbeke, J. M., 297
 Ward, Sir A. W., 48
 Ward, B., 202
 Ward, C., 249
 Ward, C. F., 120
 Ward, C. N., 202
 Ward, G. E. S., 173
 Ward, G. G., 123
 Ward, H. B., 317
 Ward, H. F., 239
 Ward, H. P., 80
 Ward, J., 48
 Ward, K. M., 279
 Ward, R. De C., 53
 Ward, W., 235
 Ward, W. W., 40
 Wardale, J. D., 89
 Wardale, J. R., 49
 Wardall, Miss R. A., 120
 Wardlaw, W., 28
 Wardle, R. A., 207
 Wardley, W., 344
 Wardlow, Y., 76
 Wardman, J., 118
 Ware Louise, 262
 Ware, W. M., 344
 Warfel, C. G., 277
 Warfield, B. B., 274
 Warfield, R. B., 16
 Waring, H. J., 148, 166
 Warne, W. E., 188
 Warner, Miss A. J., 124
 Warner, F., 169
 Warner, K. F., 142
 Warner, S. B., 100
 Warnock, A. R., 301
 Warren, E., 267
 Warren, E. H., 55
 Warren, F. M., 228
 Warren, G. F., 124
 Warren, Sir H., 258
 Warren, H. C., 274
 Warren, J., 54, 55
 Warren, J. H., 77
 Warren, Miss K. M.,
 152, 161
 Warren, R., 169
 Warren, W. F., 35
 Warren, W. H., 306
 Warren, W. M., 33
 Warsaw, W. W., 125
 Warshaw, J., 143
 Warton, S. W., 185
 Washburn, A. H., 115
 Washburn, E. W., 318
 Washburn, H. B., 55,
 56
 Washburn, M. F., 271
 Washburn, O. M., 23
 Washburne, G., 76
 Washington, L., 334
 Wasiuddin, S., 44
 Wassam, C. W., 121
 Wasteneys, H., 309
 Waterfall, H. W., 318
 Waterhouse, G., 83
 Waterhouse, G. W., 118
 Waterhouse, Sir H. F.,
 170
 Waterhouse, O., 267
 Waterman, E., 99
 Waterman, E. L., 120,
 303
 Waterman, F. A., 247
 Waterman, Miss R., 207
 Waters, Miss C. E., 70
 Waters, D. R., 87
 Waters, E. G. R., 256
 Waters, E. O., 229
 Waters, W. R., 236
 Wathen, G. A., 10
 Waterston, D., 284
 Watkin, E. L., 296
 Watkin, M., 126
 Watkins, D. E., 24
 Watkins, G., 318
 Watkins, Ven. H. W.,
 89
 Watkins, J. T., 328
 Watkins, I. T., 181
 Watkins, W. M. N., 331
 Watkinson, W. H., 145
 Watney, Sir J., 161
 Watrous, G. D., 229
 Watson, A., 4, 149
 Watson, A. B., 275
 Watson, A. McL., 105
 Watson, A. P., 93
 Watson, B. P., 310
 Watson, C., 93
 Watson, C. G., 166
 Watson, C. H., 137
 Watson, D., 106
 Watson, D. C., 93
 Watson, D. M. S., 156
 Watson, E. W., 255,
 259
 Watson, F., 3, 262
 Watson, F. R., 318
 Watson, F. R. B., 39
 Watson, G. G. C., 340
 Watson, G. H., 28
 Watson, G. N., 137, 162
 Watson H., 222
 Watson, J. A., 344
 Watson, J. A. S., 92
 Watson, J. R., 14
 Watson, J. W., 201
 Watson, Miss M., 99
 Watson, Miss M. U., 111
 Watson, W., 107, 195
 Watson, W. G., 283
 Watson, W. J., 91
 Watson, W. R., 16
 Watson, W. T., 16
 Watt, A. A., 131
 Watt, A. S., 2
 Watt, H., 95
 Watt, H. A., 236
 Watt, H. J., 105
 Watt, J., 44
 Watt, J. C., 310
 Watt, M., 57
 Watt, R. D., 306
 Watterson, W. H., 34, 35
 Watts, A., 170
 Watts, A. S., 77
 Watts, Sir P., 21
 Watts, O. P., 202
 Watts, P. R., 305
 Watts, W. W., 165, 179
 Waugh, G. E., 174
 Waugh, J. M., 234
 Waugh, W., 195
 Waugh, W. T., 296, 207
 Waxman, S. M., 33, 35
 Way, E. T. W., 269
 Way, W. D., 124
 Wayman, H. C., 199
 Weall, J., 283
 Weatherburn, C. E., 212
 Weatherby, L. S., 197
 Weatherly, U. G., 30
 Weaver, A. T., 202
 Weaver, C. H., 312
 Weaver, F. P., 302
 Weaver, J. E., 142
 Weaver, J. R. H., 259
 Weaver, P. J., 61
 Weaver, R., 276
 Webb, C. C. J., 258, 261
 Webb, C. D., 113, 157
 Webb, C. H. S., 173
 Webb, E. D., 237
 Webb, F. R., 197
 Webb, G. R., 83
 Webb, G. T., 37
 Webb, H. W., 234
 Webb, J. J., 85
 Webb, J. S. W., 212
 Webb, P. H., 188
 Webb, S., 162
 Webb, S. J., 151
 Webb, W. D., 323
 Webb-Johnson, A. E.,
 173
 Webber, H. J., 24, 2 6
 Weber, J., 268
 Webber, R. G., 12
 Webber, W. P., 268,
 269
 Weber, L. S., 324
 Weber, N. A., 328
 Weber, S. J., 273
 Webster, A. B., 92
 Webster, A. G., 343
 Webster, C. K., 144
 Webster, Miss E., 143
 Webster, F. M., 287
 Webster, H., 143
 Webster, H. J., 268,
 269
 Webster, K. G. T., 54
 Wedd, C. B., 192
 Wedderburn, J. H. M.,
 274
 Weed, L. H., 14
 Weekes, G. A., 51
 Weekley, E., 248
 Weeks, J. E., 237
 Weeks, R., 232
 Weeks, W. S., 25
 Weelock, C. F., 6
 Wegner, E. E., 276
 Wehrwein, G., 302
 Weidlein, W. D., 308
 Weidmann, C. A., 265
 Weighton, R. L., 89
 Weigle, L. A., 229
 Weimer, A., 156
 Weir, A. R., 200
 Weir, J., 219
 Weir, J. B., 131
 Weir, J. C., 7
 Weir, T. H., 105
 Weir, W. H., 68
 Weir, W. W., 25
 Weis, J. A., 250
 Weisburg, A. H., 218
 Weiss, A. P., 76
 Weiss, E. A., 269
 Weiss, F. E., 206
 Welch, A. C., 95
 Welch, J. J., 89
 Welch, P. S., 22
 Welch, R. D., 247
 Welch, W., 50
 Welch, W. H., 14, 15
 Weld, H. P., 123
 Weld, W. E., 8
 Welfy, M. D., 303
 Welker, J. E., 137
 Welker, P. A., 328
 Welker, W. H., 320
 Weider, C. H., 120
 Weller, S., 63
 Wellings, A. W., 29
 Wellman, H. R., 115
 Wellman, Miss M. T.,
 31
 Wellons, R. D., 200
 Wells, 272
 Wells, A. E., 125
 Wells, C. W., 23
 Wells, D. W., 34
 Wells, G. F., 110
 Wells, G. R., 78, 80
 Wells, H. G., 64
 Wells, H. H., 38
 Wells, H. L., 228
 Wells, H. M., 142
 Wells, J., 255, 260
 Wells, L. C., 343
 Wells, S. R., 147, 149
 Welsh, D. A., 306
 Welsh, Lillian, 13
 Welsh, W., 46
 Weman, Miss M. T., 2
 Wende, G. W., 42
 Wendell, G. V., 234
 Wendt, G. L., 64
 Wenrich, C. N., 268, 269
 Wertenbaker, T. J., 273
 Werner, Miss A., 152
 Werner, E. A., 83
 Werner, H. O., 142
 Werner, L., 85
 Wernham, H. F., 178
 Wertheim, E., 137
 Wertheimer, J., 39, 40
 Werschler, G. A., 328
 Wesen, M., 143
 Wessel, W. F., 197
 Wesselhoef, W. F., 34
 Wesson, R. A., 163
 West, A. F., 272
 West, A. K., 245
 West, B., 166
 West, G., 234
 West, P. V., 74
 West, V. J., 290
 Westcott, J. H., 272
 Westen, N. A., 317
 Westerfield, R. B., 228
 Westerman, W. L., 201
 Westermarck, E. A.,
 151, 162
 Western, A. E., 192
 Westgate, L. G., 80
 Weston, C. P., 253
 Weston, G. B., 54
 Weston, K. E., 341
 Weston, N. A., 318
 Weston, P. L., 37
 Weston, R. S., 242
 Westmore, M. N., 341
 Wetton, H. D., 162
 Weyman, Miss A. R.,
 233
 Weymouth, F. W., 300
 Weyss, A. W., 33, 34,
 35
 Whale, P. T., 29
 Whaling, H. B., 120
 Wharton, L., 157
 Wharton, L. C., 177
 Whately, N., 260

- Wheatley, F. G., 34,
210, 211
 Wheeler, A. E., 130
 Wheeler, A. L., 41
 Wheeler, A. S., 61
 Wheeler, A. W., 66
 Wheeler, G., 188
 Wheeler, J. J., 137
 Wheeler, L. P., 229
 Wheeler, N. E., 219
 Wheeler, Miss O. A.,
208
 Wheeler, R. H., 99, 124
 Wheeler, Ruth, 18
 Wheeler, W. M., 36, 53,
240
 Wheelon, H., 286
 Whelpton, P. K., 142
 Whetham, W. C. D., 50
 Whetzel, H. H., 124
 Whibley, L., 49
 Whicher, G. F., 10
 Whidden, H. P., 36, 37
 Whiddington, R., 140
 Whillis, S. S., 89
 Whipple, A. O., 235
 Whipple, F. J. W., 180
 Whipple, G. C., 55
 Whitaker, C. R., 93
 Whitaker, J. R., 93
 Whitbeck, R. H., 201
 Whitby, Miss I. J., 161
 Whitcomb, Miss E. S.,
217
 Whitcomb, S. L., 136
 White, 272
 White, A. W., 246
 White, C. G., 88
 White, C. H., 253
 White, C. J., 54
 White, C. P., 207
 White, C. S., 99, 326
 White, D., 329, 331
 White, D. S., 77
 White, E. A., 124
 White, Miss E. N., 76
 White, G. F., 343
 White, G. S., 239
 White, H. J., 156, 157
 White, H. L., 197
 White, H. S., 56, 271
 White, J., 308
 White, J. B., 11
 White, J. D., 288
 White, J. H., 268, 269,
309, 310
 White, J. McL., 318
 White, J. W., 39, 302
 White, Miss L. A., 134
 White, L. D., 115
 White, N. J., 84
 White, R. J., 19
 White, R. J. G., 19
 White, Rhoda M., 276
 White, Capt. S. A., 5
 White, S. A. F., 151,
156, 157
 White, W. A., 326
 White, W. H., 167, 174
 White, W. N., 329
 White, W. R., 302
 Whites, W. R., 121
 Whitebread, C., 331
 Whitehead, A. N., 152,
148, 165
 Whitehead, Miss F., 292
 Whitehead, H., 34
 Whitehead, J. B., 15
 Whitehead, J. W., 303
 Whitehead, T., 19
 Whitehead T. H., 182
 Whitehouse, F. V., 12
 Whitehouse, H., 80
 Whitehouse, R. H., 204
 White Locke, R. H. A.,
255
 Whiteside, A., 100
 Whiteside, G. S., 99
 Whitfield, H. E., 264
 Whitfield, A., 172
 Whitford, H. N., 229
 Whitford, R. C., 102
 Whitford, W. G., 65
 Whiting, A. L., 319
 Whiting, F., 123
 Whiting, Miss M. T.,
234
 Whitlock, A. N., 218
 Whitlock, H. P., 239
 Whitmore, A. A., 253
 Whitnall, H. O., 114
 Whittall, S. E., 219
 Whitney, C. M., 211
 Whitney, D. D., 143
 Whitney, G. T., 273
 Whitney, J. P., 45
 Whitney, M., 333
 Whitney, M. P., 271
 Whitney, N. R., 120
 Whitsao, A. E., 202
 Whittaker, E. T., 91, 96
 Whittam, A. F., 54
 Whitten, J. C., 24
 Whittenmore, H. L.,
245
 Whitter, C. B., 301
 Whittlesey, W. R., 334
 Whyte, Jessie D., 149
 Whyte, J. M., 284
 Wiatt, W. S., 256
 Wich, H. E., 17
 Wicremasinghe, M. de
Z., 256, 260
 Wick, 271
 Wick, Miss F. G., 123
 Wickersham, J. A., 308
 Wickham, H. F., 120
 Wickham, J. S., 203
 Widdicombe, J. H., 51
 Widdows, Miss S. T.,
175
 Wiegand, K. M., 124
 Wiehr, J., 247
 Wiener, L., 53
 Wier, J. E., 281
 Wiggers, C. J., 68
 Wight, O. B., 99
 Wightman, E. R., 302
 Wigmore, Miss E. G.,
253
 Wignall, E. J., 163
 Wilberforce, L. R., 145
 Wilbur, R. L., 299
 Wilbur, R. S., 90
 Wilbur, W. A., 325
 Wilce, J. W., 77
 Wilcocks, R. W., 304
 Wilcoxon, W. H., 293
 Wilcox, A. M., 136
 Wilcox, D. G., 34
 Wilcox, E. A., 120, 121
 Wilcox, E. M., 142
 Wilczynski, E. J., 63
 Wild, H. D., 341
 Wild, Miss L. H., 297
 Wild, R. B., 207
 Wilde, A. H., 33, 34, 35
 Wilde, E. L., 302
 Wilder, H. H., 73, 247
 Wilder, I. W., 247
 Wilder, L. H., 336
 Wildman, B. C., 141
 Wildman, J. R., 237
 Wildman, M. S., 299
 Wiley, G. M., 6
 Wilfrid, Bro., 135
 Wilk R. B., 208
 Wilkens, F. H., 236
 Wilkerson, J. W., 110
 Wilkerson, T. R., 326
 Wilkie, D. P. D., 93
 Wilkins, E. H., 63
 Wilkins, G., 83
 Wilkins, Mrs. O. A. C.,
36
 Wilkins, T. R., 36
 Wilkinson, A. C. L., 32
 Wilkinson, C. H., 260
 Wilkinson, Miss D. E.,
305
 Wilkinson, G., 293
 Wilkinson, H. P., 258
 Wilkinson, H. S., 256
 Wilkinson, Sir H. S., 21
 Wilkinson, J. A., 126
 Wilkinson, J. F., 213
 Wilkinson, L., 306
 Wilkinson, W., 163
 Wilkinson, W. C., 63
 Will, A. A., 246
 Will, J. K., 169
 Will, J. S., 309
 Willard, A. C., 318
 Willard, C. J., 76
 Willard, H. R., 253
 Willard, J. M., 301
 Willard, W., 251
 Willard, W. A., 141
 Wilcox, W. F., 122
 Wilcox, W. H., 173
 Willett, H. C., 197
 Willett, H. L., 64
 Willets, C. E., 342
 Willey, A., 220, 218
 Williams, A. J., 245
 Williams, A. M., 92
 Williams, A. W., 163
 Williams, C. A., 53
 Williams, C. D., 137
 Williams, D., 103, 188
 Williams, E. H., 88,
293, 313
 Williams, E. L., 196
 Williams, E. T., 23
 Williams, E. U., 175
 Williams, F. B., 343
 Williams, F. F., 202
 Williams, F. W., 228
 Williams, G., 171
 Williams, G. Y., 245
 Williams, H., 143, 195,
208, 209
 Williams, Miss H. L.,
247
 Williams, H. B., 235
 Williams, H. H., 61,
260
 Williams, H. U., 42
 Williams, H. W. G., 182
 Williams, I., 19, 39
 Williams, J. A., 30
 Williams, J. D., 3
 Williams, J. F., 233
 Williams, J. H., 273
 Williams, J. L., 2
 Williams, J. W., 14,
284
 Williams, Sir John, 3
 Williams, K. P., 31
 Williams, L. A., 61
 Williams, L. F. R., 258
 Williams, Miss M. C.,
120, 157
 Williams, Miss M. G.,
297
 Williams, M. P., 257
 Williams, Mary, 152
 Williams, Mary W., 18
 Williams, N. T., 209
 Williams, O. E., 77
 Williams, O. H., 146
 Williams, O. T., 156
 Williams, P. W., 39
 Williams, R. A., 22
 Williams, R. H., 300
 Williams, R. J. P., 169
 Williams, R. S., 244
 Williams, S., 6
 Williams, S. R., 249
 Williams, T., 288
 Williams, W. H., 118,
201
 Williams, W. I., 320
 Williams, W. J., 316
 Williams, W. L., 124
 Williams, W. N., 51
 Williams, W. R., 234
 Williams, W. W., 333
 Williams-Jackson, A.
V., 232
 Williamsen, G. A., 2
 Williamson, C. D., 319
 Williamson, H., 166
 Williamson, J. D., 67
 Williamson, R. M., 2
 Williamson, S. A., 168
 Williamson, W., 180
 Willing, T. N., 291
 Willis, B., 300
 Willis, H. E., 110
 Willis, H. P., 232
 Williston, S., 55
 Willoughby, C. C., 56
 Willoughby, L. A., 256
 Willoughby, W. C., 117
 Willoughby, W. M., 176
 Willoughby, W. W., 14
 Wills, A. P., 233
 Wills, G. A., 38
 Wills, L. J., 285
 Wilscher, H., 255
 Wilson, F. N., 274
 Wilm, E. C., 33, 35
 Wilmot, S., 275
 Willmott, A. J., 178
 Wilsner, A. M., 38
 Wilsmore, N. T. M., 264
 Wilson, A., 207
 Wilson, A. F., 237
 Wilson, C. B., 120
 Wilson, C. G., 53
 Wilson, C. S., 103
 Wilson, C. T. R., 47, 51
 Wilson, D. T., 70
 Wilson, D. W., 15
 Wilson, E., 150, 157
 Wilson, E. B., 233
 Wilson, E. J., 264
 Wilson, F. H., 201
 Wilson, F. J., 107
 Wilson, F. P., 29, 145,
340
 Wilson, F. W., 281
 Wilson, G., 16, 22
 Wilson, G. F., 99
 Wilson, G. H., 68, 106,
197
 Wilson, G. S., 170
 Wilson, G. V., 182
 Wilson, G. W., 286
 Wilson, H., 77, 166
 Wilson, Miss H., 252
 Wilson, H. A., 258
 Wilson, H. B., 174

INDEX TO NAMES

- Wilson, H. R., 12
 Wilson, H. Van P., 61
 Wilson, I. D., 303
 Wilson, J., 86, 162
 190
 Wilson, J. C., 196
 Wilson, J. F., 25, 197
 Wilson, J. H., 90
 Wilson, J. K., 124
 Wilson, J. L., 306
 Wilson, K., 172
 Wilson, L. A., 6
 Wilson, L. N., 343
 Wilson, L. P., 246
 Wilson, L. R., 61
 Wilson, M., 92
 Wilson, Miss M., 37
 Wilson, O. H., 225
 Wilson, P., 177, 244
 Wilson, R., 131
 Wilson, R. A., 291
 Wilson, R. D., 274
 Wilson, R. J., 237
 Wilson, R. N., 25
 Wilson, R. P., 141
 Wilson, S. A. K., 172
 Wilson, S. S., 67
 Wilson, T., 29
 Wilson, T. H., 83, 86
 Wilson, T. J., 60
 Wilson, W., 91, 157
 Wilson, W. A., 229
 Wilson, W. J., 22
 Wilson, W. L., 27
 Wilson, W. M., 95, 124,
 318
 Wilson, W. P., 267
 Wilson, W. T., 231
 Wiltbank, R. T., 64
 Wiltberger, R. B., 77
 Wilton, T. R., 145
 Wiltshire, H. W., 172
 Wiltshire, S. P., 39
 Wily, J. H., 27
 Wimmer, C. P., 235
 Winans, J. A., 122
 Winchell, Miss C. M.,
 233
 Winchell, A. N., 201
 Winchester, B. S., 229
 Winchester, C. T., 216
 Windle, Sir B. C. A., 78,
 312
 Windsor, P. L., 317,
 319, 320
 Winfield, P. H., 50
 Wing, C. B., 300
 Wing, H. H., 124
 Wing, J. C., 39
 Wingate, Gen. Sir R.,
 127
 Winn, W. N., 195
 Winslow, Ala. E., 18
 Winslow, C. E. A., 229,
 240
 Winslow, C. P., 201
 Winslow, J. R., 16
 Winslow, N. 16
 Winslow, R., 16
 Winstanley, D. A., 50
 Winstanley, Miss L., 3
 Winston, P. H., 61
 Winter, G. B., 286
 Winter, I. L., 54, 55
 Winteritz, M. C., 229
 Winters, J. E., 123
 Winton, G. B., 224
 Wintringer, G. C., 272
 Wippell, Rev. J. C., 20
 Wirkler, J. E., 248
 Wischmeyer, C., 308
 Wise, W. D., 16
 Wishart, D. J. G., 310
 Wiskocil, C. T., 25
 Wisner, C. C., 8
 Wissler, C., 240
 Wittchell, E. F. D., 162
 Wittchell, W. M., 180
 Witherbee, O. O., 197
 Witherby, T. C., 37
 Witherspoon, J., 225
 Witherspoon, J. A., 225
 Withey, M. O., 202
 Wittington, R., 247
 Withrow, A. R., 76
 Witt, W. H., 225
 Wittig, G. F., 229
 Wodehouse, H. M., 38
 Woerner, W. F., 287
 Woglom, W. H., 234
 Wohl, M., 251
 Wohlenberg, W. J., 229
 Wojta, J. F., 203
 Wolbach, S. B., 54
 Wolcott, R. C., 76
 Wolcott, R. H., 143
 Wolf, A. A., 152
 Wolf, I. J., 137
 Wolf, J. C., 17
 Wolf, W. B., 16
 Wolfe, A. S., 326
 Wolfe, B. L., 138
 Wolfe, Coral, 262
 Wolfe, F. E., 80
 Wolfenden, R., 157
 Wolfenson, L. B., 202
 Wolff, J. E., 53
 Wolfsohn, J. M., 301
 Woll, F. W., 24
 Womack, F., 166
 Wonder, C. J., 250
 Wood, A., 51
 Wood, A. J., 303
 Wood, C., 48, 49, 71, 72
 Wood, C. E., 28
 Wood, C. M., 34
 Wood, C. T., 50
 Wood, D. T. B., 177
 Wood, Mrs. E., 214,
 215
 Wood, E. H., 125
 Wood, F. A., 63
 Wood, F. C., 234
 Wood, F. G. C., 322
 Wood, F. H., 6, 71
 Wood, G., 260, 264
 Wood, G. A., 305
 Wood, H., 14
 Wood, Sir H. T., 185
 Wood, I. D., 141, 142
 Wood, I. F., 247
 Wood, Mrs. J., 197
 Wood, J. A., 264
 Wood, J. K., 284
 Wood, J. S., 201
 Wood, L. A., 195
 Wood, Miss M., 336
 Wood, N. W., 34
 Wood, P. F., 92
 Wood, P. S., 197
 Wood, P. W., 51
 Wood, Miss R. G., 247
 Wood, R. W., 14
 Wood, T. B., 48
 Wood, T. D., 232
 Wood, T. H., 225
 Wood, W. H., 115
 Wood, W. Q., 92
 Woodbine, G. E., 229
 Woodbridge, A. K., 100
 Woodbridge, F. J. E.,
 233
 Woodburn, J. A., 30
 Woodbury, C. E., 250
 Woodbury, F., 112, 113
 Woodbury, W. W., 113
 Woodford, H. W., 189
 Woodhead, Sir G. S.,
 190
 Woodhead, G. S., 27
 Woodhouse, E. T., 248
 Woodhouse, M. C. G.,
 248
 Woodhouse, W. J., 305,
 306
 Woodhull, J. F., 233
 Woodman, J. E., 236
 Woodruff, H. A., 213
 Woodruff, L. L., 228
 Woods, B. M., 25
 Woods, C. D., 252, 253,
 254
 Woods, E. B., 115
 Woods, H., 16, 48, 49
 Woods, J. A., 145
 Woods, J. C., 168
 Woods, J. H., 53
 Woods, M., 207
 Woods, Sir R. H., 83
 Woods, R. S., 169
 Woods, W. C., 216
 Woods, W. W., 169
 Woodward, A. S., 185
 Woodward, A. S., 178
 Woodward, B. B., 178,
 190
 Woodward, E. G., 276
 Woodward, F. C., 65
 Woodward, H. S., 69
 Woodward, R. S., 332
 Woodward, S. M., 121
 Woodworth, C. W., 24
 Woodworth, J. B., 54
 Woodworth, R. S., 234
 Woolacott, D., 89
 Woolbert, C. H., 318
 Wooldridge, G. H., 152,
 158
 Wooley, W. J., 167
 Wooley, Miss M. E.,
 297
 Woolner, A. C., 129,
 130, 132
 Woolnough, W. G., 264
 Woolsey, G., 123
 Woolston, W. J., 320
 Wooster, H. A., 210
 Wordley, S., 166
 Work, P., 124
 Working, D. W., 316
 Workman, H. B., 147
 Works, G. A., 124
 Worley, F. P., 12
 Worenaid, H., 344
 Worenaid, Mrs. H., 344
 Worrall, D. E., 211
 Worrell, W. H., 117
 Worsnop, B. L., 157
 Worth, C., 170
 Worthen, E. L., 302
 Wortley, H. A. S., 100
 Wragge, Miss S., 89
 Wray, D. A., 182
 Wrecks, J. H., 294
 Wren, F. G., 210
 Wren, L. C., 25
 Wren, T. L., 50, 152, 155
 Wrenn, C. L., 89
 Wright, Miss, 13
 Wright, A., 49, 50
 Wright, Sir A., 173
 Wright, Sir A. E., 150
 Wright, Mrs. A. E., 37
 Wright, A. H., 123, 203
 Wright, A. M., 237
 Wright, A. R., 62
 Wright, A. S., 70
 Wright, A. T., 26
 Wright, C. H., 195
 Wright, C. H. C., 53,
 310
 Wright, C. S., 48
 Wright, C. W., 63
 Wright, E., 211
 Wright, E. H., 233
 Wright, F. A., 159
 Wright, F. H., 280
 Wright, F. W., 225
 Wright, G., 207
 Wright, H. A., 42, 206
 Wright, H. B., 229
 Wright, H. G., 19
 Wright, J., 256
 Wright, J. A., 31
 Wright, J. H., 54
 Wright, J. L., 17
 Wright, Miss K. D., 336
 Wright, M. R., 89
 Wright, R., 105
 Wright, S. J., 267
 Wright, T. B., 197
 Wright, T. C., 158
 Wright, T. D., 164
 Wright, T. G., 106
 Wright, W., 150, 169
 Wright, Mrs. W. C., 41
 Wright, W. H., 223, 270
 Wright, W. J., 124
 Wright, W. K., 115
 Wright, W. L., 37
 Wright, W. N., 203
 Wright-Hezbst, Miss J.,
 276
 Wrigley, P. R., 207
 Wrigley, P. T., 165
 Weinland, H. A., 25
 Wriston, H. M., 216
 Wrong, E. M., 259
 Wrong, G. McK., 306
 Wurts, J., 229
 Wyatt, F. A., 97, 319
 Wyatt, W. F., 211
 Wyer, J. L., jr., 6
 Wyer, M. G., 143
 Wyer, R., 343
 Wyld, N. C. K., 144
 Wyde, Capt. C. H., 179
 Wylie, H. B., 16
 Wylie, J., 22
 Wylie, L. J., 271
 Wylie, R. B., 120
 Wynne, W. P., 190
 Wynter, W. E., 173
 Yahya, M., 44
 Yajnik, R. B., 131
 Yapp, R. H., 28
 Yarros, R. S., 319
 Yates, T., 173
 Yelverton, C., 78
 Yennery, R. C., 99
 Yeomans, H. A., 50
 Yerington, H. H., 300
 Yerkes, J. W., 324
 Yule, G. A., 48
 Yoder, Miss E., 196,
 198
 Yoder, J. H., 303
 Yodin, Miss H., 199
 York, H. H., 275
 Yorke, W., 145, 147
 Yost, 272
 Young, A., 58, 246
 Young, A. A., 122

ATHENA—A YEAR-BOOK OF THE LEARNED WORLD

- | | | | |
|------------------------|------------------------|---------------------------------------|-------------------------|
| Young, A. H., 309 | Young, H. H., 15 | Young, W. H., 3, 144 | Zeitlin, J., 318 |
| Young, Miss A. S., 298 | Young, H. J., 142 | Young, W. J., 213 | Zeleny, C., 317 |
| Young, B. E., 224 | Young, H. W., 300 | Younghusband, Lt.-Col.
Sir F., 187 | Zeleny, J., 228 |
| Young, C. A., 142 | Young, J. L., 234 | Youngken, H. W., 265 | Zelinski, W. F. von, 65 |
| Young, C. B., 81 | Young, J. R., 281 | Youtz, H. A., 249 | Zemin, J. S., 45 |
| Young, C. C., 137 | Young, J. W., 115 | Yusuf, M., 44 | Zibbu, S. K., 200 |
| Young, C. E., 120 | Young, J. W. A., 64 | Yves, Father, 135 | Ziylar, C. H., 49 |
| Young, C. H., 232 | Young, K., 201 | Zabriskie, C. B., 238 | Zimni, J., 253 |
| Young, C. R., 182, 310 | Young, M., 207 | Zack, F. J., 218 | Zimmermann, R., 32 |
| Young, C. V. P., 122 | Young, Miss M. V., 297 | Zahorsky, J., 236 | Zimmern, A. E., 3 |
| Young, E. H., 196 | Young, P. N. F., 81 | Zammit, T., 321 | Zinsser, H., 234 |
| Young, F. G., 98, 99 | Young, R. A., 170 | Zamorska, Miss W., 107 | Zook, G. F., 302 |
| Young, G., 151 | Young, R. B., 126 | Zan, J. C., 99 | Zug, G. B., 115 |
| Young, G., jr., 152 | Young, R. T., 110 | Zanetti, J. E., 234 | Zuill, W. L., 197 |
| Young, G. A., 251 | Young, S., 9, 83, 190 | Zavit, C. A., 111 | Zumbalen, J. H., 238 |
| Young, Mrs. H. B., 124 | Young, S. W., 300 | | Zumbro, W. M., 205 |
| Young, H. C., 326 | Young, T. P., 284 | | Zutshi, M. N., 132 |

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