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1903-04

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CALENDAR, 1904-1905

The University Examinations of Undergraduates will begin Friday, June 3, 1904.

Commencement Day falls on the second Tuesday in June: in 1904 on June 14; in 1905 on June 13.

The First Examinations for Admission and Matriculation will begin Wednesday, June 15, 1904, at 9 a. m.

The second Examinations will begin Wednesday, September 28, 1904, at 9 a. m.

The instruction of all classes will begin on the first Tuesday in October: in 1904 on October 4.

Thanksgiving Day will fall on Thursday, November 24, 1904.

The first Intermediate Examinations of Undergraduates will be held December 21, 22, 23, 1904.

The Christmas Recess will begin Friday evening, December 23, 1904. Exercises will be resumed Tuesday morning, January 3, 1905.

Commemoration Day will fall on Wednesday, February 22, 1905.

The Spring Recess will begin Thursday morning, April 20, 1905, and close Wednesday evening, April 26.

The University Examinations of Undergraduates (in 1905) will begin Friday, June 2.

REGISTER

OF

THE JOHNS HOPKINS UNIVERSITY

1903-1904

BALTIMORE
THE JOHNS HOPKINS PRESS
1904

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The Johns Hopkins Hospital.

JOSEPH ERLANGER, M. D., *Associate in Physiology.* 126 Jackson Place.

S. B., University of California, 1895; M. D., Johns Hopkins University, 1899, and Fellow, 1900.

WARREN H. LEWIS, M. D., *Associate in Anatomy.* 516 Park Av.

S. B., University of Michigan, 1896; M. D., Johns Hopkins University, 1900.

WILLIAM ROSENAU, PH. D., *Associate in Post-Biblical Hebrew.*

A. B., University of Cincinnati, 1888; Hebrew Union College of Cincinnati, 1889; Ph. D., Johns Hopkins University, 1900. 825 Newington Av.

J. EUSTACE SHAW, PH. D., *Associate in Italian.* 1114 Bolton St.

A. B., Johns Hopkins University, 1896, Fellow, 1899-1900; and Ph. D., 1900.

FLORENCE R. SABIN, M. D., *Associate in Anatomy.* 1415 Linden Av.

S. B., Smith College, 1893; M. D., Johns Hopkins University, 1900, and Fellow in Anatomy, 1901-02.

HENRY O. REIK, M. D., *Associate in Ophthalmology and Otology.*

M. D., University of Maryland, 1891; *Assistant in Ophthalmology and Otology, the Johns Hopkins Dispensary.*

Roland Park.

S. EDWIN WHITEMAN, *Instructor in Drawing.* Mt. Washington.

École des Beaux-Arts, Paris.

ELIZABETH HURDON, M. D., *Assistant in Gynecology.*

M. D., Trinity University (Toronto), 1895; *Assistant in Gynecology, the Johns Hopkins Dispensary.* 1000 N. Charles St.

GUY CARLETON LEE, PH. D., *Instructor in History.* 1707 Bolton St.

LL. B., University of North Carolina, 1894; A. B. and LL. M., Dickinson College, 1895; Fellow, Johns Hopkins University, 1897-98, and Ph. D., 1898.

LEWIS E. JEWELL, *Assistant in Practical Photography and Spectroscopy.* 1128 McCulloh St.

LOUIS P. HAMBURGER, M. D., *Instructor in Medicine.*
A. B., Johns Hopkins University, 1893, and M. D., 1897; *Clinical Assistant in Medicine, the Johns Hopkins Dispensary.* 1210 Eutaw Place.

HENRY MCE. KNOWER, PH. D., *Instructor in Anatomy.*
A. B., Johns Hopkins University, 1890, Fellow, 1894-95, Bruce Fellow, 1895-96, and Ph. D., 1896; Instructor in Williams College, 1896-97; *Co-Editor and Secretary, American Journal of Anatomy.* 112 E. Preston St.

GEORGE E. BARNETT, PH. D., *Instructor in Political Economy.*
A. B., Randolph-Macon College, 1891; Fellow, Johns Hopkins University, 1899-1900, and Ph. D., 1901. 1205 McCulloh St.

WILLIAM S. BAER, M. D., *Instructor in Orthopedic Surgery.*
A. B., Johns Hopkins University, 1894, and M. D., 1898; *Assistant in Orthopedic Surgery, the Johns Hopkins Hospital.* 21 W. Franklin St.

WILLIAM KURRELMEYER, PH. D., *Instructor in German.*
A. B., Johns Hopkins University, 1896, Fellow, 1897-99, and Ph. D., 1899; Professor of Modern Languages, Franklin and Marshall College, 1899-1900. 1313 Edmondson Av.

HARRY T. MARSHALL, M. D., *Instructor in Medicine and Assistant in Pathology.* 213 W. Lanvale St.
A. B., Johns Hopkins University, 1894, M. D., 1898, and Fellow, 1899-1900.

H. WARREN BUCKLER, M. D., *Assistant in Obstetrics.* 806 Cathedral St.
A. B., Johns Hopkins University, 1895, and M. D., 1899; *Clinical Assistant in Medicine, the Johns Hopkins Dispensary.*

GEORGE WALKER, M. D., *Instructor in Surgery.* 529 N. Charles St.
M. D., University of Maryland, 1889; *Chief of the Surgical Clinic, the Johns Hopkins Dispensary.*

NATHAN E. B. IGLEHART, M. D., *Assistant in Surgery.*
M. D., University of Maryland, 1889; *Clinical Assistant, the Johns Hopkins Dispensary.* 16 W. Preston St.

MACTIER WARFIELD, M. D., *Instructor in Laryngology.*
A. B., Johns Hopkins University, 1881; M. D., University of Maryland, 1884; *Chief of the Laryngological and Rhinological Clinic, the Johns Hopkins Dispensary.* 15 W. Franklin St.

THOMAS R. BROWN, M. D., *Instructor in Medicine.* 925 Cathedral St.
A. B., Johns Hopkins University, 1892, and M. D., 1897; *Chief of the Medical Clinic, the Johns Hopkins Dispensary.*

RUFUS I. COLE, M. D., *Instructor in Medicine.*
S. B., University of Michigan, 1896; M. D., Johns Hopkins University, 1899; *Assistant Resident Physician, the Johns Hopkins Hospital.* The Johns Hopkins Hospital.

ALFRED R. L. DOHME, PH. D., *Instructor in Pharmacy.* Roland Park.
A. B., Johns Hopkins University, 1886, and Ph. D., 1889.

GEORGE C. MARTIN, PH. D., *Instructor in Paleontology.*
S. B., Cornell University, 1898; Fellow, Johns Hopkins University, 1900-01, and Ph. D., 1901. 1030 N. Eutaw St.

J. HALL PLEASANTS, M. D., *Assistant in Medicine.* 1110 N. Charles St.
A. B., Johns Hopkins University, 1895, and M. D., 1899; *Clinical Assistant, the Johns Hopkins Dispensary.*

CAMPBELL E. WATERS, PH. D., *Assistant in Chemistry.*
A. B., Johns Hopkins University, 1895, and Ph. D., 1899.
2010 13th Street, Walbrook.

JAMES HALL MASON KNOX, JR., PH. D., M. D., *Assistant in Pediatrics.*
A. B., Yale University, 1892, and Ph. D., 1894; A. M. Lafayette College, 1896; M. D., Johns Hopkins University, 1898; *Clinical Assistant, the Johns Hopkins Dispensary.* 804 Cathedral St.

RICHARD A. URQUHART, M. D., *Assistant in Pediatrics.* 849 Park Av.
M. D., University of Virginia, 1894; *Clinical Assistant, the Johns Hopkins Dispensary.*

FRANK R. BLAKE, PH. D., *Instructor in Oriental Languages.*
A. B., Johns Hopkins University, 1897, Fellow, 1898-1902, and Ph. D., 1902.
2106 Oak St.

JULIUS HOFMANN, *Assistant in German.* 1029 W. Lanvale St.
University of Giessen.

SYLVAN ROSENHEIM, M. D., *Assistant in Laryngology.*
A. B., Johns Hopkins University, 1895, and M. D., 1899; *Clinical Assistant in Laryngology, the Johns Hopkins Dispensary.* 1630 Madison Av.

RICHARD H. FOLLIS, JR., M. D., *Instructor in Surgery.*
Ph. B., Yale University, 1895; M. D., Johns Hopkins University, 1899; *Resident Surgeon, the Johns Hopkins Hospital.* The Johns Hopkins Hospital.

EDGAR R. STROBEL, M. D., *Assistant in Dermatology.* 37 E. North Av.
A. B., Johns Hopkins University, 1895, and M. D., 1899; *Clinical Assistant, the Johns Hopkins Dispensary.*

LEROY C. BARRET, PH. D., *Instructor in Latin.* 1120 McCulloh St.
A. B., Washington and Lee University, 1897, and A. M., 1898; Fellow, Johns Hopkins University, 1901-03, and Ph. D., 1903.

CHARLES H. BUNTING, M. D., *Assistant in Pathology.*
S. B., University of Wisconsin, 1896; M. D., Johns Hopkins University, 1901; Assistant Demonstrator of Pathology, University of Pennsylvania, 1902-03; *Assistant Resident Pathologist, the Johns Hopkins Hospital.*
The Johns Hopkins Hospital.

HENRY A. CONVERSE, PH. D., *Instructor in Mathematics.*
A. B., Hampden-Sidney College, 1893; Ph. D., Johns Hopkins University, 1903.
1112 McCulloh St.

THEODORE CLINTON FOOTE, PH. D., *Instructor in Biblical Literature.*
A. B., Racine College, 1880, and A. M., 1883; S. T. B., General Theological Seminary (N. Y.), 1884; Ph. D., Johns Hopkins University, 1902, and Rayner Fellow, 1901-03.
1825 W. Fayette St.

CAMPBELL P. HOWARD, M. D., *Assistant in Medicine.*
A. B., McGill University, 1897, and M. D. C M., 1901; *Assistant Resident Physician, the Johns Hopkins Hospital.* The Johns Hopkins Hospital.

ARTHUR S. LOEVENHART, M. D., *Assistant in Physiological Chemistry.*
S. B., Kentucky State College, 1898, and M. S., 1899; M. D., Johns Hopkins University, 1903.
521 N. Wolfe St.

ERNEST G. MARTIN, PH. D., *Assistant in Physiology.*

Ph. B., Hamline University, 1897; Fellow, Johns Hopkins University, 1902-03.

1814 N. Broadway.

CHARLES R. MACINNES, PH. D., *Director of the Gymnasium.*

A. M., Queen's University (Ont.), 1896, and Instructor, 1900-02; Ph. D., Johns Hopkins University, 1900; Lecturer, Manitoba College, Winnipeg, 1902-03.

822 Hamilton Terr.

AUGUSTUS G. POHLMAN, M. D., *Assistant in Anatomy.*

M. D., University of Buffalo, 1900; Assistant and Instructor in Anatomy, Cornell University, 1900-03.

246 W. Lanvale St.

LEE RANEY, A. B., *Assistant Librarian.* Pikesville.

A. B., Centre College, 1897; Fellow, Johns Hopkins University, 1901-03.

JOHN A. SAMPSON, M. D., *Assistant in Gynecology.*

A. B., Williams College, 1895; M. D., Johns Hopkins University, 1899; *Resident Gynecologist, the Johns Hopkins Hospital.*

The Johns Hopkins Hospital.

J. MORRIS SLEMONS, M. D., *Assistant in Obstetrics.*

A. B., Johns Hopkins University, 1897, and M. D., 1901; *Resident Obstetrician, the Johns Hopkins Hospital.*

The Johns Hopkins Hospital.

W. RUSH DUNTON, M. D., *Assistant in Psychiatry.* Towson.

S. B., Haverford College, 1889, and A. M., 1890; M. D., University of Pennsylvania, 1893; Assistant Physician, Sheppard and Pratt Hospital.

GEORGE L. STREETER, M. D., *Assistant in Anatomy.* 516 Park Av.

A. B., Union College, 1895; A. M. and M. D., Columbia University, 1899.

WILLIAM W. FORD, M. D., *Instructor in Bacteriology.*

A. B., Adelbert College, 1893; M. D., Johns Hopkins University, 1898; Fellow of McGill University, 1899-1901, and of the Rockefeller Institute, 1901-02.

209 E. Mt. Royal Av.

JAMES J. MILLS, M. D., *Assistant in Ophthalmology and Otology.*

M. D., Baltimore Medical College, 1889; *Assistant in Ophthalmology and Otology, the Johns Hopkins Dispensary.*

LOUIS V. HAMMAN, M. D., *Assistant in Medicine.* 21 W. Franklin St.

A. B., Rock Hill College, 1896; M. D., Johns Hopkins University, 1901; *Clinical Assistant, the Johns Hopkins Dispensary.*

853 Park Av.

F. HARRY BAETJER, M. D., *Assistant in Surgery in charge of Actinography.* The Arundel.

A. B., Johns Hopkins University, 1897, and M. D., 1901; *Assistant Resident Surgeon, the Johns Hopkins Hospital.*

HERBERT M. LITTLE, M. D. C. M., *Assistant in Obstetrics.*

A. B., University of Toronto, 1897; M. D. C. M., McGill University, 1901; *Assistant Resident Obstetrician, the Johns Hopkins Hospital.*

The Johns Hopkins Hospital.

LECTURERS DURING THE YEAR, 1903-1904

On the Turnbull Foundation

Count ANGELO DE GUBERNATIS, Professor of Italian Literature in the University of Rome.
Nine lectures in January and February on *Italian Poetry.*

Greek Literature

Professor SAMUEL H. BUTCHER, LITT. D., LL. D., of the University of Edinburgh.
Two lectures in April on *Greek Literature.*

History of Religions

Professor GEORGE STEINDORFF, PH. D., of the University of Leipzig.
Five lectures in March on the *Religion of Egypt.*

Archaeology

Professor WILLIAM N. BATES, PH. D., of the University of Pennsylvania.
Twenty-five lectures on *Greek Archaeology.*

FREDERICK J. BLISS, PH. D., late Field-Officer of the Palestine Exploration Fund.
Six lectures in February on the *Archaeology of Palestine.*

Before separate departments of the University

Medical Department

ALEXANDER C. ABBOTT, M. D., Professor of Hygiene and Director of the Laboratory of Hygiene, University of Pennsylvania.
Hygiene.

JOHN S. BILLINGS, M. D., LL. D., Surgeon, U. S. Army, and late Librarian of the Surgeon General's Office; Director of the New York Public Library.
Literature and History of Medicine.

ROBERT FLETCHER, M. D., M. R. C. S. (Eng.), Surgeon, U. S. Army.
Forensic Medicine.

CH. WARDELL STILES, PH. D., Zoologist of the U. S. Bureau of Public Health.
Medical Zoology.

Department of Geology.

Professor CLEVELAND ABBE, PH. D., LL. D., of the United States Weather Bureau.
Meteorology.

L. A. BAUER, PH. D., of the United States Coast and Geodetic Survey.
Terrestrial Magnetism.

C. WILLARD HAYES, PH. D., of the U. S. Geological Survey.
Special topics in *Geology.*

German

THOMAS S. BAKER, PH. D., of the Jacob Tome Institute.
German Literature.

Historical and Economic Science

JEFFREY R. BRACKETT, PH. D., of Baltimore.
Ten lectures on *Public Aid, Charities, and Correction.*

JAMES SCHOULER, LL. D., of Boston, author of "History of the United States under the Constitution."
Four lectures on the *Life of the People during the American Revolution.*

Professor EDWARD L. STEVENSON, PH. D., of Rutgers College.
Six lectures on *Cartography.*

Romance Languages

Professor FREDERICK M. WARREN, PH. D., of Yale University.
Twenty-six lectures on *French Literature.*

Systematic Botany

BOLLING W. BARTON, M. D., of Baltimore.

Modern Greek

ARISTOGEITON M. SOHO, PH. D., of Baltimore.

ADDITIONAL ASSISTANTS FOR THE CURRENT YEAR.

The following students have rendered service to the university in the departments named. In the enumeration they are not counted as members of the academic staff.

J. A. ADDISON, A. B.—*Y. M. C. A.*
J. A. ANDERSON, S. B.—*Physics.*
K. H. BEALL, M. D.—*Pharmacology.*
S. BLUM, A. B.—*Public Speaking.*
H. BRADSHAW, A. B.—*Chemistry.*
P. H. COBB, A. B.—*Chemistry.*
B. H. GRAVE, S. B.—*Gymnasium.*
E. W. GUDGER, M. S.—*Zoology.*
W. J. MILLER, M. S.—*Geology.*
C. A. MYERS, A. B.—*English.*
D. W. OHERN, A. M.—*Geology.*
A. H. PFUND, S. B.—*Physics.*
J. T. PORTER, A. M.—*Physics.*
H. W. PLAGGEMEYER, A. B.—*Public Speaking.*
R. L. RAMSAY, A. B.—*English.*
F. SHREVE, A. B.—*Botany.*
H. C. THACHER, A. B.—*Bacteriology.*
W. W. WAITE, S. B.—*Pathology.*
W. P. WINTER, A. M.—*Chemistry.*

INTERNES AND EXTERNES OF THE JOHNS HOPKINS HOSPITAL AND DISPENSARY, 1903-04

The following graduates of the medical department are Resident House Officers in the Johns Hopkins Hospital:

LEWIS CLYDE BIXLER, M. D.
A. B., Lafayette College, 1899; M. D., Johns Hopkins University, 1903.

CLINTON ETHELBERT BRUSH, JR., M. D.
S. B., New York University, 1899; M. D., Johns Hopkins University, 1903.

JOHN TIMOTHY GERAGHTY, M. D.
A. B., St. Thomas College, 1895; Ph. B., St. Paul Seminary, 1897; M. D., Johns Hopkins, 1903.

FRANCIS COLQUHOUN GOLDSBOROUGH, M. D.
S. B., Princeton University, 1899; M. D., Johns Hopkins University, 1903.

ARTHUR DOUGLASS HIRSCHFELDER, M. D.
S. B., University of California, 1897; M. D., Johns Hopkins University, 1903.

HENRY TALBOT HUTCHINS, M. D.
A. B., Amherst College, 1899; M. D., Johns Hopkins University, 1903.

HENRY D. LONG, M. D.
A. B., Washington and Jefferson College, 1894; M. D., Johns Hopkins University, 1903.

ROBERT TALBOTT MILLER, JR., M. D.
A. B., Amherst College, 1899; M. D., Johns Hopkins University, 1903.

WILLIS BEAN MOULTON, M. D.
A. B., Bowdoin College, 1899; M. D., Johns Hopkins University, 1903.

THEODORE FOSTER RIGGS, M. D.
A. B., Beloit College, 1898; M. D., Johns Hopkins University, 1903.

ALEXANDER RAYMOND STEVENS, M. D.
A. B., Johns Hopkins University, 1896, and M. D., 1903.

FRANK HOSFORD WATSON, M. D.
S. B., University of Wisconsin, 1899; M. D., Johns Hopkins University, 1903.

CHARLES WHITTIER YOUNG, M. D.
S. B., University of Illinois, 1897; M. D., Johns Hopkins University, 1903.

The following is serving as an Externe of the Hospital and Dispensary:

WILLIAM BURGESS CORNELL, M. D.
A. B., University of Chicago, 1899; M. D., Johns Hopkins University, 1903.

GRADUATE STUDENTS

FELLOWS BY COURTESY

JOHN DAVIS BATCHELDER. Faribault, Minn. *The Albion.*

A. B., University of Vermont, 1894; LL. B., University of Minnesota, 1896; Assistant Professor of Romance Languages, Ohio State University, 1901-03. *Romance Languages.*

ERNEST JULIUS BECKER. Baltimore. 2131 *Maryland Av.*

A. B., Johns Hopkins University, 1894, and Ph. D., 1898; Instructor in English and German, Baltimore City College. *English.*

GEORGE GRIFFIN BROWNELL. University, Ala. 1202 *Mt. Royal Av.*

A. B., Syracuse University, 1893, and A. M., 1896; Professor of Romance Languages, University of Alabama. *Spanish, French, and History.*

ARTHUR BYRON COBLE. Lykens, Pa. 1116 *Bolton St.*

A. B., Pennsylvania College, 1897; Fellow, Johns Hopkins University, 1901-02, and Ph. D., 1902; Instructor in Mathematics, University of Missouri, 1902-03; Research Assistant on the Carnegie foundation. *Mathematics.*

JOHN BASCOM CRENSHAW. Baltimore. 1122 *Madison Av.*

A. M., Randolph-Macon College, 1881; Ph. D., Johns Hopkins University, 1892; Instructor in English and French, Baltimore City College. *German and English.*

PHILIP HOWARD EDWARDS. Baltimore County. *Pikesville.*

A. B., St. John's College, 1898; Fellow, Johns Hopkins University, 1901-03, and Ph. D., 1903. *Latin.*

CARL AUGUST EGGERT. Chicago, Ill. 1024 *N. Eutaw St.*

A. M., Princeton University, 1867; Ph. D., University of Heidelberg, 1876; LL. B., Iowa State University, 1889; late Professor of Romance Languages in Vanderbilt University and the University of South Dakota. *Romance Languages.*

JOSEPH CHRISTIE WHITNEY FRAZER. Baltimore. 1217 *Madison Av.*

S. B., Kentucky State College, 1897, and M. S., 1898; Fellow, Johns Hopkins University, 1900-01, Ph. D., 1901, and Assistant in Chemistry, 1901-03; Research Assistant on the Carnegie Foundation. *Chemistry.*

FREDERICK HUTTON GETMAN. Stamford, Conn. 2117 *Maryland Av.*

Fellow, Johns Hopkins University, 1902-03, and Ph. D., 1903; Research Assistant on the Carnegie foundation. *Chemistry.*

EDWARD PECHIN HYDE. Baltimore. 1100 *E. North Av.*

A. B., Johns Hopkins University, 1900, and Fellow, 1901-02; Assistant, Bureau of Standards, Washington. *Physics, Mathematics, and Physical Chemistry.*

ALFRED ALLAN KERN. Nashville, Tenn. 410 *W. Hoffman St.*

A. B., Randolph-Macon College, 1898, and A. M., 1899; Fellow, Johns Hopkins University, 1902-03. *English, French, and German.*

ALBERT FREDERICK KUERSTEINER. Bloomington, Ind.

A. B., University of Cincinnati, 1888; Professor of Romance Languages, University of Indiana. *Spanish, French, and History.*

918 *N. Calvert St.*

CHARLES EDWARD LYON. Baltimore County. *Mt. Wilson.*

A. B., Johns Hopkins University, 1897; Instructor in German, Princeton University, 1902-03. *German, French, and Latin.*

EDWARD LINDON MELLUS. Baltimore. 10 *E. Chase St.*

M. D., Jefferson Medical College, 1878. *Anatomy.*

WIGHTMAN FLETCHER MELTON. Tuscaloosa, Ala. 1317 *Linden Av.*
L. I., University of Nashville, 1889; A. M., Blount College (Ala.), 1892; late President of Tuscaloosa Female College. *English and Philosophy.*

WILLIAM ALBERT NOYES. Washington, D. C. 1505 *Bolton St.*
A. B., Iowa College, 1879; Ph. D., Johns Hopkins University, 1882; Professor of Chemistry, Rose Polytechnic Institute, 1886-1903; Chief Chemist, Bureau of Standards, Washington.

ROBERT BRUCE ROULSTON. Baltimore. 628 *N. Arlington Av.*
A. B., Johns Hopkins University, 1900, and Fellow, 1902-03. *German, Sanskrit, and Latin.*

EMILE SCHMOLL. Basle, Switzerland. 600 *N. Broadway.*
M. D., University of Basle, 1896. *Pharmacology.*

JOHN PHILIP SCHNEIDER. Cooperstown, N. Y. 1401 *McCulloh St.*
A. B., Wittenberg College, 1896; A. M., Columbia University, 1898; Fellow, Johns Hopkins University, 1902-03, and Ph. D., 1904. *English, German, and Philosophy.*

HAMILTON WRIGHT. Baltimore. 311 *Oakdale Rd., Roland Pk.*
M. D. C. M., McGill University, 1895; late Organizing Director, Institute for Medical Research in the Federated Malay States of the London School of Tropical Studies. *Pathology.* (20)

ADAM T. BRUCE FELLOW IN BIOLOGY

RHEINART PARKER COWLES. Los Angeles, Cal. 917 *McCulloh St.*
A. B., Leland Stanford University, 1899; Fellow, Johns Hopkins University, 1901-02, and Ph. D., 1904. *Zoology, Physiology, and Botany.*

WILLIAM S. RAYNER FELLOW IN SEMITIC LANGUAGES

WILLIAM GEORGE SEIPLE. Catasauqua, Pa. 801 *N. Calvert St.*
A. B., Franklin and Marshall College, 1898, and A. M., 1901; Lancaster Theological Seminary, 1901. *Hebrew, Assyrian, and Greek.*

Fellows

SAMUEL JAMES ALLAN. Halifax, N. S. 1125 *McCulloh St.*
Sc. B., McGill University, 1900, and M. Sc., 1901. *Physics.*

JAMES BARNES. Halifax, N. S. 1125 *McCulloh St.*
A. B., Dalhousie University, 1899. *Physics, Physical Chemistry, and Mathematics.*

DOUGLAS LABAREE BUFFUM. Charlottesville, Va. 516 *Park Av.*
A. B. and A. M., University of Virginia, 1898. *French, Spanish, and Italian.*

WALTER BUCKINGHAM CARVER. Baltimore. 1039 *N. Eutaw St.*
Ph. B., Dickinson College, 1899. *Mathematics, Physics, and Geological Physics.*

HOWARD WATERS DOUGHTY. Baltimore. 1024 *St. Paul St.*
Proficient in Electricity, Johns Hopkins University, 1893. *Chemistry, Physical Chemistry, and Physics.*

AARON EMBER. Baltimore. 201 *S. High St.*
A. B., Johns Hopkins University, 1901. *Hebrew, Assyrian, and History of Ancient East.*

JOHN CALVIN FRENCH. Baltimore. 2509 *W. North Av.*
A. B., Johns Hopkins University, 1899. *English.*

AUGUST ERNEST GUENTHER. Sandusky, O. 1814 *N. Broadway.*
S. B., University of Michigan, 1898. *Physiology, Anatomy, and Physics.*

ELLIOT SNELL HALL. Jamestown, N. Y. 1317 *Park Av.*
A. B., Amherst College, 1896. *Chemistry, Physical Chemistry, and Geology.*

LEE MILTON HOLLANDER. Baltimore. 2133 *McCulloh St.*
A. B., Johns Hopkins University, 1901. *German, English, and Sanskrit.*

JOHN PORTER HOLLIS. Rock Hill, S. C. 1214 *McCulloh St.*
A. B., Wofford College, 1895. *History, Political Economy, and Political Science.*

ARTHUR ISAAC KENDALL. Somerville, Mass. 106 *Jackson Pl.*
S. B., Massachusetts Institute of Technology, 1900. *Bacteriology, Physiological Chemistry, and Physiology.*

WILLIAM KIRK. Baltimore. 1422 *Argyle Av.*
A. B., Johns Hopkins University, 1902. *Political Economy, Political Science, and History.*

WILFRED GEORGE LEUTNER. Cleveland, O. [*Absent.*]
A. B., Adelbert College, 1901. *Greek.* [*Resigned to become Instructor in Adelbert College.*]

RAYMOND DURBIN MILLER. Baltimore. 1303 *John St.*
A. B., Johns Hopkins University, 1898. *English, History, and Philosophy.*

WALTER LEWIS MOLL. Baltimore. *Irvington.*
A. B., Concordia College (Ind.), 1896; Concordia Seminary (Mo.), 1899. *Greek, Latin, and Hebrew.*

THEODORE LESLIE SHEAR. New York City. 1213 *Bolton St.*
A. B., New York University, 1900, and A. M., 1903. *Greek, Latin, and Sanskrit.*

CHARLES KEPHART SWARTZ. Baltimore. 813 *N. Gilmor St.*
A. B., Johns Hopkins University, 1888. *Geology, Paleontology, and Chemistry.*

DAVID HILT TENNENT. Janesville, Wis. 906 *McCulloh St.*
S. B., Olivet College, 1900. *Zoology, Physiology, and Botany.*

BOYD ASHBY WISE. Canterburg, Va. 261 *W. Hoffman St.*
A. B., Randolph-Macon College, 1897, and A. M., 1898. *Latin, English, and German.*

JAMES MARTIN WRIGHT. Norborne, Mo. 1317 *Madison Av.*
A. B., William Jewell College, 1901. *History, Political Economy, and Political Science.* (21)

OTHER GRADUATE STUDENTS IN PHILOSOPHY

JOHN ARMSTRONG ADDISON. Baltimore. 315 *Warren Av.*
A. B., Johns Hopkins University, 1903. History and Philosophy.

JAMES EDWARD ALLEN. Hebron, Va. 1110 *McCulloh St.*
A. B., Hampden-Sidney College, 1898. *Latin, French, and German.*

BENJAMIN AUDLEY ALLISON. Mercer, Pa. 1202 *McCulloh St.*
S. B., Westminster College (Pa.), 1902. *Chemistry and Physics.*

JOHN AUGUST ANDERSON. Tansem, Minn. 521 *N. Eutaw St.*
S. B., Valparaiso College (Ind.), 1900. *Physics and Mathematics.*

CLYDE SHEPHERD ATCHISON. Baltimore. 1929 *W. North Av.*
A. B., Westminster College (Pa.), 1903. *Mathematics and Physics.*

HARRY PRESTON BASSETT. Cynthiana, Ky. 416 *Mosher St.*
S. B., Kentucky State College, 1901, and M. S., 1902. *Chemistry, Physical Chemistry, and Physics.*

HAROLD HERMAN BENDER. Martinsburg, W.Va. 813 *Harlem Av.*
A. B., Lafayette College, 1903. *Sanskrit and Comparative Philology.*

HARRY KREITZER BENSON. Seattle, Wash. 1007 *W. Lafayette Av.*
A. B., Franklin and Marshall College, 1899, and A. M., 1902. *Chemistry, Physical Chemistry, and Mathematics.*

EUGENE COOK BINGHAM. Middlebury, Vt. 261 *W. Hoffman St.*
A. B., Middlebury College, 1899. *Chemistry and Physical Chemistry.*

FREDERICK CONRAD BLANCK. Baltimore. 520 *N. Fulton Av.*
A. B., Johns Hopkins University, 1903. *Chemistry.*

JOHN FRANCIS BLEDSOE. Baltimore. 649 *W. Saratoga St.*
A. B., Howard College (Ala.), 1892; A. M., Gallaudet College, 1893. *History and Politics.*

FREDERICK AUGUSTUS BLOSSOM, JR., Brooklyn, N.Y. 920 *Cathedral St.*
A. B., Amherst College, 1898. *Romance Languages.*

SOLOMON BLUM. Baltimore. 1608 *Park Av.*
A. B., Johns Hopkins University, 1903. *Political Economy.*

BEVERLY WAUGH BOND, JR. Baltimore. 1139 *Bolton St.*
A. B., Randolph-Macon College, 1900, and A. M., 1901. *History, English, and French.*

HAMILTON BRADSHAW. De Kalb, Ill. 315 *W. Hoffman St.*
A. B., Beloit College, 1902. *Chemistry, Physical Chemistry and Physics.*

CHARLES EDWARD BROOKS. Baltimore County. *Lake Roland.*
A. B., Johns Hopkins University, 1900. *Mathematics, Philosophy, and Physics.*

BENJAMIN HOWARD BROWNING. Littleton, N. C. 1116 *N. Eutaw St.*
A. B., Wake Forest College, 1902, and A. M., 1903. *Chemistry, Physical Chemistry, and Physics.*

ROGER FREDERIC BRUNEL. Portland, Me. 1410 *Linden Av.*
A. B., Colby College, 1903. *Chemistry, Physical Chemistry, and Physics.*

WILLIAM HEPBURN BUCKLER. Baltimore. *"Evergreen," W. North Av.*
A. B., University of Cambridge, 1890, and LL. B., 1891. *Political Economy.*

ROBERT GRANVILLE CAMPBELL. Lexington, Va. *Washington, D. C.*
A. B., Washington and Lee University, 1898. *Physics and Mathematics.*

HOWARD VERNON CANTER. Canterburg, Va. 1120 *McCulloh St.*
A. B., Washington and Lee University, 1896. *Latin, French, and Spanish.*

CHARLES GEIGER CARROLL. Georgetown, Texas. 1120 *McCulloh St.*
A. B., Southwestern University, 1898, and A. M., 1899. *Chemistry, Physical Chemistry, and Physics.*

LEWIS ROBINSON CARY. Bowdoinham, Me. 906 *McCulloh St.*
S. B., University of Maine, 1901, and M. S., 1902. *Zoology, Physiology, and Botany.*

OLIVER PERRY CHITWOOD. Rocky Mount, Va. 1128 *McCulloh St.*
A. B., William and Mary College, 1899. *History, Political Economy, and Political Science.*

ERNEST SEABURY CLOWES. Brooklyn, N. Y. 204 *E. Biddle St.*
S. B., Brooklyn Polytechnic Institute, 1901. *Chemistry, Physics, and Physical Chemistry.*

PHILIP HOWARD COBB. Portland, Me. 1317 *Park Av.*
A. B., Bowdoin College, 1902. *Chemistry, Physical Chemistry, and Mineralogy.*

REV. JOSEPH P. CONROY, S. J. Baltimore. *Loyola College.*
A. B., St. Ignatius College (Chicago), 1888; Ph. D., St. Louis University, 1895. *Greek.*

REV. WILLIAM WILBERFORCE COSTIN. Brooklandville. *Brooklandville.*
A. B., Mt. Allison College (N. B.), 1895; A. M., Columbian University, 1901. *Philosophy.*

ROBERT TREAT CRANE. Baltimore County. *Pikesville.*
A. B., Johns Hopkins University, 1902. *Political Science, Economics, and Philosophy.*

EDWIN PRESTON DARGAN. Barboursville, Va. 906 *McCulloh St.*
A. B., Bethel College (Ky.), 1899. *Romance Languages.*

REV. GEORGE HERMANN DERRY, S. J. Baltimore. *Loyola College.*
Stonyhurst College (England). *Greek.*

ARTHUR DODGE. Manassas, Va. 1120 *McCulloh St.*
A. B., William and Mary College, 1900, and A. M., 1901. *Greek, Latin, and Sanskrit.*

REV. GEORGE DRENFORD. Baltimore. *Highland Park.*
University of Breslau, 1879; M. D., College of Physicians and Surgeons (Balt.), 1888. *Sanskrit and Semitic Languages.*

DE LA WARR BENJAMIN EASTER. Ashland, Va. 1202 *McCulloh St.*
A. M., Randolph-Macon College, 1891. *French, Spanish, and Italian.*

HAMILTON JAMES ECKENRODE. Fredericksburg, Va. 1513 *John St.*
A. B., Fredericksburg College, 1898. *History, English, and Philosophy.*

GEORGE WICKER ELDERKIN. Hanover, N. H. 906 *McCulloh St.*
A. B., Dartmouth College, 1902. *Greek, Latin, and Sanskrit.*

THOMAS SIDNEY ELSTON. Berkeley, Cal. 1124 *McCulloh St.*
S. B., University of California, 1899. *Physics, Mathematics, and Chemistry.*

HOWARD EDWIN ENDERS. Annville, Pa. 1007 *W. Lafayette Av.*
S, B., Lebanon Valley College, 1897, M. S., 1900, and Professor of Biology; S. B., University of Michigan, 1898. *Zoology, Botany, and Physiology.*

CLAUDE ROY ENGLE. Hummelstown, Pa. 1125 *McCulloh St.*
S. B., Lebanon Valley College, 1902. *Chemistry, Physical Chemistry, and Physics.*

REV. JOHN SUMMERFIELD ENGLE. Baltimore. 2443 *McCulloh St.*
A. B. and A. M., Roanoke College, 1902. *Philosophy and History.*

ARTHUR JOHN EVELAND. Boston, Mass. 309 *Presstman St.*
Massachusetts Institute of Technology. *Geology and Mineralogy.*

HORACE EDGAR FLACK. Cuba, N. C. 1110 *Argyle Av.*
A. B. and A. M., Wake Forest College, 1901. *History, Political Economy, and Political Science.*

JAMES THOMAS FLANAGAN. Waterbury, Conn. 2315 *N. Charles St.*
A. B., Mt. St. Mary's College (Md.), 1903. *Biology, Chemistry, and Physics.*

THOMAS HOWARD FOWLER. Chestertown. 2301 *Eutaw Pl.*
A. B., Washington College, 1897, and A. M., 1898. *German, Sanskrit, and English.*

WILLIAM SHERWOOD FOX. Toronto, Ont. 915 *McCulloh St.*
A. B., McMaster University, 1900. *Greek, Latin, and Sanskrit.*

REV. MATTHEW GERMING, S. J. St. Louis, Mo. *Loyola College.*
Ph. D., St. Louis University, 1895. *Latin.*

OTTO CHARLES GLASER. Baltimore. 2135 *Bolton St.*
A. B., Johns Hopkins University, 1900. *Zoology, Physiology, and Botany.*

THEODORE WESLEY GLOCKER. Baltimore. 1028 *Hopkins Av. W.*
A. B., Johns Hopkins University, 1903. *Political Economy.*

JOHN SHARSHALL GRASTY. Staunton, Va. 1004 *McCulloh St.*
A. B., Johns Hopkins University, 1902. *Geology and Chemistry.*

BENJAMIN HARRISON GRAVE. Monrovia, Ind.
S. B., Earlham College, 1903. *Botany and Zoology.*
218 E. Twenty-third St.

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S. B., Illinois Wesleyan University, 1903. *Chemistry.*

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Ph. B., Lafayette College, 1903. *Modern Languages.*

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A. B., Pennsylvania College, 1900, and A. M., 1903. *Mathematics, Physics, and Italian.*

EUGENE WILLIS GUDGER. Waynesville, N. C. 1124 *McCulloh St.*
S. B., University of Nashville, 1892, and M. S., 1893. *Zoology, Botany, and Geology.*

JAMES FREDERICK HALL. London, Ont. 307 *Dolphin St.*
A. B., Western University (Ont.), 1899; A. B., Harvard University, 1900, and A. M., 1903. *Greek, Latin, and Hebrew.*

HUGH SISSON HANNA. Baltimore. 1037 *Harlem Av.*
A. B., Johns Hopkins University, 1899. *Political Economy, Political Science, and History.*

JOHN ALAN HAUGHTON. Baltimore. 1004 *N. Calvert St.*
A. B., Johns Hopkins University, 1903. *Romance Languages.*

REV. EDWARD HAYES. Baltimore. 907 *W. Franklin St.*
Western University of Pennsylvania. *Semitic Languages.*

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A. B., Roanoke College, 1903. *Greek, Latin, and Sanskrit.*

FREDERICK SQUIRE HEMRY. Clay Center, Neb. 1702 *McCulloh St.*
A. B., Cotner University (Neb.), 1894; A. M., University of Nebraska, 1897. *German, Greek, and English.*

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A. B., Guilford College, 1900, and Haverford College, 1902. *Mathematics and Physics.*

FREDERICK W. HILBERT. Baltimore. 1032 *N. Eutaw St.*
A. B., Randolph-Macon College, 1896, and A. M., 1897. *Political Economy, History, and Political Science.*

LOUIS FOLTAT HILDEBRANDT. Baltimore. 1217 *Mosher St.*
A. B., Johns Hopkins University, 1902. *Spanish, French, and History.*

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A. B., Johns Hopkins University, 1903. *History, Political Science, and French.*

HENRY DICKINSON HILL. Baltimore. 1725 *Madison Av.*
A. B., Johns Hopkins University, 1900. *Physics, Mathematics, and Chemistry.*

JOSEPH ELLIS HODGSON. Keyser, W. Va. 1219 *Argyle Av.*
A. B., Washington and Lee University, 1898. *Mathematics.*

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A. B., Davidson College, 1900. *Chemistry, Physics, and Physical Chemistry.*

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A. B., Johns Hopkins University, 1902. *Chemistry, Physical Chemistry, and Mineralogy.*

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A. B., Philadelphia High School, 1900; University of Pennsylvania. *History, Political Science, and Philosophy.*

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A. B., Amherst College, 1901. *Greek, Latin, and Sanskrit.*
315 *W. Hoffman St.*

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A. B., S. B., and A. M., University of Virginia, 1900. *Physics.*

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S. B., Carleton College, 1903. *Chemistry.*
Calhoun & Baker Sts.

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Ph. D., Woodstock College, 1901. *Greek and English.*

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S. B., Earlham College, 1899. *Chemistry, Physical Chemistry, and Physics.*

JAMES BOYD KENNEDY. Yorkville, S. C. 1128 *McCulloh St.*
A. B., Erskine College, 1892. *Political Economy.*

WILLIAM LEE KENNON. Jackson, Miss. 1004 *McCulloh St.*
S. B., Millsaps College, 1900, and M. S., 1901. *Chemistry and Physics.*

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S. B., Northwestern College (Ill.), 1902. *Chemistry and Mathematics.*

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A. B., Harvard University, 1900; Fellow, Catholic University of America. *Mathematics.*

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A. M., Randolph-Macon College, 1897. *English.*

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A. B., Richmond College, 1896, and A. M., 1898. *Physics, Mathematics, and Astronomy.*

HENRY MARTIN. Brandywine, Va. 1018 *N. Eutaw St.*
A. B., Richmond College, 1899, and A. M., 1901. *Latin.*

REV. WILLLIAM BRUCE MCPHERSON. Baltimore. 1105 *N. Gilmor St.*
A. B., Hobart College, 1892, and A. M., 1895. *Hebrew, Assyrian, and Egyptian.*

ASHTON WAUGH MCWHORTER. Salem, Va. 927 *McCulloh St.*
A. B., Roanoke College, 1895, and A. M., 1902. *Greek, Latin, and Sanskrit.*

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A. B., Johns Hopkins University, 1903. *History.*

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A. B., Randolph-Macon College, 1899. *Mathematics, Physics, and Astronomy.*

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S. B., University of the Pacific, 1900, and M. S., 1902. *Geology, Mineralogy, and Chemistry.*

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A. B., College of Charleston, 1900. *Latin, Sanskrit, and Greek.*

KOKICHI MORIMOTO. Tokyo, Japan. *Calhoun & Baker Sts.*
Imperial College of Sapporo, 1901. *History, Political Economy, and Political Science.*

JAMES MARVIN MOTLEY. Bowling Green, Mo. 1317 *Madison Av.*
A. B., William Jewell College, 1901. *Political Economy, History, and Political Science.*

WILLIAM URWICK MURKLAND. Baltimore. 37 *W. Preston St.*
A. B., Johns Hopkins University, 1903. *Greek, Latin, and Sanskrit.*

CHARLES AUGUSTUS MYERS. Baltimore. 1421 *W. Franklin St.*
A. B., Johns Hopkins University, 1902. *English.*

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A. B., Drake University, 1898; A. M., West Virginia University, 1899. *Geology, Mineralogy, and Chemistry.*

SAMUEL GRANT OLIPHANT. Baltimore. 1613 *John St.*
A. B., Princeton University, 1891, and A. M., 1894. *Greek, Latin, and Sanskrit.*

EDGAR ARDIS PETERSON. Eufaula, Ala. 913 *McCulloh St.*
A. B., Southern University, 1899; M. D., Vanderbilt University, 1902. *Chemistry, Pathology, and Bacteriology.*

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S. B., University of Wisconsin, 1901. *Physics and Mathematics.*

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S. B., Erskine College, 1900. *Mathematics, Physics, and Philosophy.*

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A. B., Randolph-Macon College, 1895, and A. M., 1898. *Physics, Mathematics, and Electricity.*

ROBERT LEE RAMSAY. Fredericksburg, Va. 1831 *Madison Av.*
A. B., Fredericksburg College, 1899. *English, Greek, and French.*

MARATHON MONTROSE RAMSEY. Washington, D. C.
S. B., Columbian University, 1894, and A. M., 1895; Assistant Professor of Spanish, Leland Stanford University, 1901-03. *Spanish, French, and History.*
1122 *McCulloh St.*

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A. B., Johns Hopkins University, 1902. *History, Political Economy, and Political Science.*

ADOLF C. REICHARD. Frankfort, Germany. *The Sherwood.*
Ph. D., University of Heidelberg, 1902. *Zoology.*

WALTER FORD REYNOLDS. Baltimore. 439 *Roland Av.*
A. B., Johns Hopkins University, 1902. *Mathematics and Physics.*

LUTHER ADOLPH RICHARDS. Winchester, Va. *Washington, D. C.*
A. B., Columbian University, 1902, and A. M., 1903. *Mathematics, Physics, and Astronomy.*

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A. B., Ursinus College, 1901. *Zoology, Physiology, and Botany.*

CHARLES JUDSON ROBINSON. Bloomington, Ill. 306 *W. Lanvale St.*
S. B., Illinois Wesleyan University, 1903. *Chemistry.*

JOHN DAVID RODEFFER. Lovettsville, Va. 1634 *Druid Hill Av.*
A. B., Roanoke College, 1895, and A. M., 1898; Ph. D., Johns Hopkins University, 1903. *English.*

CHARLES AUGUST ROUILLER. Paraje, N. Mex. 1517 *John St.*
A. B., Leland Stanford Jr. University, 1903. *Chemistry.*

JAMES EDWARD ROUTH, JR. Petersburg, Va. 1714 *N. Charles St.*
A. B., Johns Hopkins University, 1900. *English.*

JOHN JOSEPH RUTLEDGE. Alton, Ill. 9 *George St., Hampden.*
S. B., University of Illinois, 1894. *Geology, Mineralogy, and Chemistry.*

AARON MORTON SAKOLSKI. Syracuse, N.Y. 1824 *McCulloh St.*
Ph. B., Syracuse University, 1902. *Political Economy, Political Science, and History.*

GEORGE BISMARCK SANDERLIN. Belcross, N. C. 1103 *Argyle Av.*
A. B., Wake Forest College, 1899, and A. M., 1900. *English, German, and History.*

HORATIO PAUL SCARBOROUGH. Murfreesboro, N.C. 1116 *N. Eutaw St.*
A. B., Wake Forest College, 1903. *Greek, Latin, and English.*

ANDREW DANTE SCHRAG. Moundridge, Kan. 1110 *Argyle Av.*
A. B., Haverford College, 1902. *German and Philosophy.*

REV. JOHN SCHULER. Baltimore. 567 *Mosher St.*
A. B., German Wallace College (O.), 1891. *German, Philosophy, and History.*

WILLIAM HENRY SCHULTZ. Akron, O. 316 *W. Hoffman St.*
Ph. B., Baldwin University, 1899. *Zoology and Physiology.*

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A. B., Brown University, 1902, and A. M., 1903. *English.*

FORREST SHREVE. Easton. 2100 *Mt. Royal Terr.*
A. B., Johns Hopkins University, 1901. *Botany, Zoology, and Physical Chemistry.*

MARK OWINGS SHRIVER, JR. Baltimore. 607 *St. Paul St.*
A. B., Loyola College, 1902. *Political Economy, Political Science, and History.*

BORIS NICHOLAIEVICH SIMIN. Moscow, Russia. 1317 *Linden Av.*
M. S., Moscow Imperial Technical School, 1902. *Physics.*

EDGEWORTH SMITH. Baltimore. 22 *E. Mt. Vernon Pl.*
A. B., Johns Hopkins University, 1898. *Political Economy, History, and Political Science.*

REV. CHARLES BYFIELD SPARKS. Baltimore. 1805 *N. Calvert St.*
Virginia Theological Seminary, 1893. *English, Hebrew, and French.*

HARRY WILLIAM SPRINGSTEEN. Cleveland, O. 516 *Park Av.*
S. B., Case School of Applied Science, 1897, and M. S., 1900; A. M., Western Reserve University, 1901. *Physics, Physical Chemistry, and Mathematics.*

ROSWELL POWELL STEPHENS. Barnesville, Ga. 927 *McCulloh St.*
A. B., University of Georgia, 1896. *Mathematics, Physics, and Electricity.*

LOYD WILLIAM STEPHENSON. Scio, O. 1314 *Argyle Av.*
Ph. B., Scio College, 1903. *Geology and Chemistry.*

HENRY PHILIP STRAUS. Baltimore. 2350 *Eutaw Pl.*
A. B., Johns Hopkins University, 1902. *Chemistry, Physical Chemistry, and Mineralogy.*

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A. B., Trinity College (N. C.), 1903. *English.*

WILLIAM ANDERSON SYME. Raleigh, N. C. 421 *St. Paul St.*
S. B., N. C. College of Agriculture, 1899, and M. S., 1903. *Chemistry, Biology, and Physiology.*

RENÉ DE M. TAVEAU. Baltimore. 1218 *Mt. Royal Av.*
A. B., Johns Hopkins University, 1899. *Chemistry, Physical Chemistry, and Mineralogy.*

LEVI SHOEMAKER TAYLOR. Philmont, Va. 249 *W. Hoffman St.*
S. B., Swarthmore College, 1898. *Chemistry, Physical Chemstry, and Mathematics.*

JOHN RICHARD TUCKER. Lowesville, Va. 1032 *N. Eutaw St.*
A. M., Randolph-Macon College, 1900. *History, Political Science, and French.*

MAYVILLE WILLIAM TWITCHELL. New York City. 1202 *McCulloh St.*
S. B., Columbian University, 1899, and M. S., 1900. *Geology, Mineralogy, and Biology.*

HORACE SCUDDER UHLER. Baltimore. 1318 *Harlem Av.*
A. B., Johns Hopkins University, 1894. *Physics, Physical Chemistry, and Mathematics.*

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A. B., Westminster College, 1903. *Chemistry.*

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Ph. B., University of North Carolina, 1899. *History, Political Economy, and Political Science.*

COLEMAN B. WALLER. Marion, S. C. 424 *N. Greene St.*
A. B., Wofford College, 1892; Ph. D., Vanderbilt University, 1902. *Biology.*

AUGUSTUS PRICE WEST. Baltimore. 2418 *St. Paul St.*
A. B., Johns Hopkins University, 1901. *Chemistry, Physical Chemistry, and Mineralogy.*

LEON FRANKLIN WILLIAMS. Gatesville, N. C. 1214 *McCulloh St.*
A. B., Trinity College (N. C.), 1901, and A. M., 1902. *Chemistry, Physical Chemistry, and Mineralogy.*

WILLIAM PHILLIPS WINTER. New Berlin, Pa. 640 *Clinton Av.*
A. B., Ohio Wesleyan University, 1887, and A. M., 1890. *Chemistry, Physical Chemistry, and Zoology.*

LOUIS BERNARD WOLFENSON. Baltimore. 513 *Laurens St.*
A. B., University of Wisconsin, 1901, and A. M., 1902. *Semitic Philology, Egyptology, and Sanskrit.*

HEMAN A. WOOD. Sturgis, Mich. 906 *McCulloh St.*
S. B., Olivet College, 1900. *Chemistry.*

REV. JAMES OWENS WRIGHTSON. Baltimore. 1031 *E. Monument St.*
Semitic Languages.

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A. M., Randolph-Macon College, 1901. *French, Italian, and Spanish.*

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ATTENDANTS ON SINGLE COURSES

Chemistry

JOHN RANDOLPH ROBINSON. Baltimore. 825 *St. Paul St.*
A. B., Yale University, 1903.

Electricity

CHARLES GRIFFIN EDWARDS. Baltimore. 217 *E. Lafayette Av.*
S. B., St. John's College, 1889.

English

REV. WILLIAM HARTLAGE. Howard County. *Ellicott City.*
Lutheran Theological Seminary (St. Paul), 1901.

Geology and Mineralogy

ARTHUR BIBBINS. Baltimore. 2307 *N. Charles St.*
Ph. B., Albion College, 1887.

RICHARD CLAGGETT WILLIAMS. Baltimore. 1726 *N. Calvert St.*
A. B., Princeton University, 1900.

History, Politics, and Economics

HARRY NORMAN BAETJER. Baltimore. 2324 *Callow Av.*
A. B., Johns Hopkins University, 1903.

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A. B. Johns Hopkins University, 1903.

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LL. B., University of Maryland, 1903.

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A. B., Randolph-Macon College, 1903.

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LL. B., University of Maryland, 1903.

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A. B., Princeton University, 1902.

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A. B., Johns Hopkins University, 1890; LL. B., University of Maryland, 1892.

Philosophy

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A. B., Johns Hopkins University, 1899.

Romance Languages

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A. B., Colby College, 1898.

GUY EVERETT SNAVELY. Baltimore. 1039 *N. Eutaw St.*
A. B., Johns Hopkins University, 1901.

Semitic Languages

REV. JOSEPH ADOUAI ST. LAURENT. Baltimore. *Walbrook.*
Licentiate in Theology, St. Mary's Seminary, 1892.

Graduate Students in Medicine

Candidates for the Degree of M. D.

Fourth Year

Jay Harvey Bacon. Tiskilwa, Ill. 1743 *Jefferson St.*
S. B., Knox College, 1900.

Theodore Baker. Bellevernon, Pa. 422 *N. Broadway.*
A. B., Princeton University, 1900.

Robert Bennett Bean. Gala, Va. 2117 *Maryland Av.*
S. B., Virginia Polytechnic Institute, 1900.

Ruth Bennett. Chicago, Ill. 222 *E. Twenty-third St.*
A. B., University of Illinois, 1899, and Graduate Student, Summer of 1899.

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A. B., Kentucky Wesleyan College, 1894; S. B., University of Michigan, 1897.

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S. B., University of North Carolina, 1896, and Medical Department, 1898-1900.

Julius Alexander Caldwell, Jr. Salisbury, N. C. 510 *N. Broadway.*
S. B., University of North Carolina, 1899, Medical Department, 1899-1900, and Summer School, 1900.

John Robert Carr. Durham, N. C. 510 *N. Broadway.*
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DeWitt Bellinger Casler. Little Falls, N.Y. 120 *Jackson Pl.*
A. B., Yale University, 1900.

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S. B., University of Wisconsin, 1900.

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S. B., University of Colorado, 1899, and Medical Department, 1899-1901.

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A. B., Johns Hopkins University, 1899; Student, University of Berlin, 1899-1900.

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A. B., Pritchett College, 1898; Bryn Mawr College, 1899-1900.

William Raphael Kellogg. Baltimore. 1905 *Thomas Av.*
A. B., Adelbert College, 1898.

Kenelm Julius Lee. Renville, Minn. 113 *Jackson Pl.*
S. B., University of Wisconsin, 1900.

JOHN MARION LOVE. Petersburg, Va. 1112 *McCulloh St.*
A. B. and B. L., Hampden-Sydney College, 1899; Graduate Student, Johns Hopkins University, 1899-1900.

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S. B., University of Michigan, 1895, and Summer School, 1896 and 1897; University of Chicago, Summer Quarter, 1899, 1900, and 1901.

HERMAN WESTON MARSHALL. Brockton, Mass. 707 *N. Broadway.*
S. B., Massachusetts Institute of Technology, 1897.

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S. B., Kentucky State College, 1900.

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A. B., Yale University, 1900.

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S. B., Knox College, 1900.

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A. B., Harvard University, 1900.

NORMAN OSCAR NELSON. Madison, Wis. 104 *Jackson Pl.*
S. B., University of Wisconsin, 1900.

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A. B., Westminster College (Pa.), 1900.

JAMES HENRY RANDOLPH. Tallahassee, Fla. 640 *N. Broadway.*
A. B., Florida State College, 1900.

JEWETT VILLEROY REED. Jeffersonville, Ind. 128 *Jackson Pl.*
S. B., Kentucky State College, 1900.

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A. B., Johns Hopkins University, 1899, and Graduate Student, 1899-1900.

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A. B., Yale University, 1900.

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A. B., Leland Stanford Jr. University, 1899; Barnard College, Columbia University, 1899-1900.

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Ph. B., Wesleyan University, 1899.

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BENJAMIN TAYLOR TERRY. Birmingham, Ala. 720 *N. Broadway.*
A. B., Vanderbilt University, 1898, and A. M., 1900; University of Chicago, Summer Quarter, 1900.

WILLIAM LAWTON THOMPSON. Portland, Me. 318 *N. Broadway.*
A. B., Bowdoin College, 1899.

GEORGE THOMAS TYLER, JR. Fredericksburg, Va. 422 *N. Broadway.*
A. B., Randolph-Macon College, 1896, and A. M., 1897; Summer School, Columbian University, 1899.

WILLIAM JEROME VOGELER. Baltimore. 718 *N. Charles St.*
A. B., Yale University, 1900.

ROBERT GLENDENNING WASHBURN. Milwaukee, Wis. 1250 *N. Broadway.*
S. B., University of Wisconsin, 1900; Wisconsin College of Physicians and Surgeons, 1900-01.

LOUIS SCHNEIDER WEAVER. Newry, Pa. 519 *N. Wolfe St.*
A. B., Pennsylvania College, 1899, and Yale University, 1900.

JOHN SCOTT WILLOCK. Allegheny, Pa. 120 *Jackson Pl.*
S. B., Princeton University, 1900.

WALTER SCOTT WILSON. Savannah, Ga. 1503 *John St.*
A. B., North Georgia Agricultural College, 1880; A. M., University of Georgia, 1884; Johns Hopkins University, 1893-94, and the University of Chicago, 1896-97.

WINFRED WILSON. Weatherford, Tex. 1022 *N. Broadway.*
A. B., Weatherford College, 1900.

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Third Year

RONALD TAYLOR ABERCROMBIE. Baltimore. 827 *Hamilton Terr.*
A. B., Johns Hopkins University, 1901.

CLARENCE ALLEN BAER. Milwaukee, Wis. 118 *Jackson Pl.*
B. L., University of Wisconsin, 1900, and S. B., 1901; University of Michigan, Summer of 1901.

LEON KAHN BALDAUF. Henderson, Ky. 1717 *Madison Av.*
A. B., Johns Hopkins University, 1901.

ALICE MAY BALLOU. Providence, R. I. 144 *Jackson Pl.*
Ph. B., Brown University, 1900, and A. M., 1901.

KLEBER H. BEALL. Fort Worth, Tex. 802 *N. Broadway.*
S. B., and M. S., University of Texas, 1899; M. D., Fort Worth University, 1900.

BERTRAM MOSES BERNHEIM. Louisville, Ky. 1203 *Madison Av.*
A. B., Johns Hopkins University, 1901.

KOSCIUSKO WALKER CONSTANTINE. Birmingham, Ala. 206 *N. Broadway.*
A. B., Johns Hopkins University, 1901.

CALVIN DUVALL COWLES, JR. Baltimore. 1043 *N. Broadway.*
A. B., Guilford College, 1900, and University of North Carolina, 1901.

WILLIAM DICK CUTTER. Brooklyn, N.Y. 1705 *Fairmount Av.*
A. B., Yale University, 1899; Student, University of Bern, 1900.

MURRAY SNELL DANFORTH. Bangor, Me. 318 *N. Broadway.*
A. B., Bowdoin College, 1901.

OTHO LEE DASCOMBE. Wilton, Me. 318 *N. Broadway.*
A. B., Bowdoin College, 1901.

HOWARD IRVING DAVENPORT. Troy, N. Y. 1014 *N. Broadway.*
A. B., Hamilton College, 1901.

HOMER J. DAVIDSON. Crawfordsville, Ind. 718 *N. Broadway.*
S. B., Wabash College, 1899.

ARTHUR WENDELL DAVIS. Hartford, Conn. 114 *Jackson Pl.*
A. B., Yale University, 1899; College of Physicians and Surgeons, New York, 1899-1901.

SOLON ARTHUR DODDS. Reading, Pa. 12 *N. Ann St.*
Ph. B., Wesleyan University (Conn.), 1901.

CHARLES EDWARD DOWMAN, JR. Atlanta, Ga. 12 *N. Ann St.*
A. B., Emory College, 1901; Student, Vanderbilt University, 1901.

JOHN AUGUSTINE ENGLISH EYSTER. Baltimore. 1700 *Linden Av.*
S. B., Maryland Agricultural College, 1899; Graduate Student, Johns Hopkins University, 1899-1901.

CLIFTON MAUPIN FARIS. Sacramento, Cal. 1707 *Fairmount Av.*
A. B., Leland Stanford Jr. University, 1900.

FREDERICK REYNOLDS FORD. Elmira, N. Y. 1014 *N. Broadway.*
S. B., Colgate University, 1901.

ALLEN WIER FREEMAN. Richmond, Va. 120 *Jackson Pl.*
S. B., Richmond College, 1899; Graduate Student, Johns Hopkins University, 1900-01.

PHILIP KINGSNORTH GILMAN. San Francisco, Cal. 516 *Park Av.*
A. B., Leland Stanford Jr. University, 1901.

SARAH MABEL GRIER. Salem, N. J. 144 *Jackson Pl.*
A. B., Bucknell University, 1901.

EDITH HALE. Cambridge, Mass. 144 *Jackson Pl.*
A. B., Radcliffe College, 1901.

FRANCIS JENKS HALL. Brookville, Pa. 1717 *Fairmount Av.*
A. B., Yale University, 1899.

JULIUS THEODORE HALLER. Davenport, Ia. 821 *N. Broadway.*
S. B., University of Chicago, 1901.

HELEN HEMPSTEAD. Meadville, Pa. 615 *St. Paul St.*
A B., Allegheny College, 1900; Cornell University, 1900-01.

NORVAL THOMAS HEPBURN. Oliver, Va. 505 *N. Wolfe St.*
A. B., Randolph-Macon College, 1900, and A. M., 1901.

REUBEN PAUL HIGGINS. Cortland, N. Y. 313 *N. Broadway.*
A. B., Cornell University, 1902, and Medical Department, 1900-02.

DONALD RUSSELL HOOKER. New Haven, Conn. 1705 *Fairmount Av.*
A. B., Yale University, 1899, and M. S., 1901.

EDITH HOUGHTON. Corning, N. Y. *The St. Paul.*
A. B., Bryn Mawr College, 1900.

HENRY SPENCER HOUGHTON. Cleveland, O. 12 *N. Ann St.*
Ph. B., Ohio State University, 1901.

HENRY MARSHALL LANKFORD. Princess Anne. 423 *N. Broadway.*
A. B., Western Maryland College, 1901.

GEORGE BILTON LAWSON. Wytheville, Va. 632 *N. Washington St.*
A. M., Randolph-Macon College, 1899.

EUGENE JOSEPH LEOPOLD. Baltimore. 1528 *Eutaw Pl.*
A. B., Johns Hopkins University, 1901.

DAVID MARINE. Williston. 113 *Jackson Pl.*
A. B., Western Maryland College, 1900; Graduate Student, Johns Hopkins University, 1900-01.

HENRY AUGUSTUS MARTELLE. Brunswick, Me. 318 *N. Broadway.*
A. B., Bowdoin College, 1901.

ARCHIE LEETE McDONALD. Grand Forks, N. D. 318 *N. Broadway.*
A. B., University of North Dakota, 1901.

ARTHUR WILLIAM MEYER. Cedarburg, Wis. 318 *N. Broadway.*
A. B., University of Wisconsin, 1898.

WILLIAM LORENZO MOSS. Athens, Ga. 1043 *N. Broadway.*
S. B., University of Georgia, 1901.

EUGENE BISHOP MUMFORD. New Harmony, Ind. 104 *Jackson Pl.*
S. B., University of Wisconsin, 1901.

JAMES EDGAR PAULLIN, JR. Fort Gaines, Ga. 118 *Jackson Pl.*
A B., Mercer University, 1900, and Graduate Student, 1900-01.

GEORGE EDWARD REHBERGER. Baltimore. 801 *N. Broadway.*
A. B., Johns Hopkins University, 1901.

LAWRENCE J. RHEA. Rhea Mills, Texas. 802 *N. Broadway.*
S. B., University of Texas, 1901.

EDWARD HENDERSON RICHARDSON. Farmville, Va. 1112 *McCulloh St.*
A. B., Hampden-Sidney College, 1900; Graduate Student, Johns Hopkins University, 1900-01.

CHARLES RICKSHER. Fairfield, Ia. 111 *Jackson Pl.*
S. B., Parsons College (Ia.), 1901.

MARTIN PHILIP RINDLAUB, JR. Plattesville, Wis. 802 *N. Broadway.*
B. L., University of Wisconsin, 1896; University of Chicago, 1897 and 1900; University of Berlin, 1900-01.

MARY JANE ROSS. Waverly, N.Y. 313 *N. Broadway.*
A. B., Cornell University, 1898, and Ph. D., 1902; A. M., University of Pennsylvania, 1900; Woman's Medical College of Pennsylvania, 1898-99.

FRANK PEYTON ROUS. Baltimore. 252 *W. Hoffman St.*
A. B., Johns Hopkins University, 1900.

OSCAR MANDERSON SCHLOSS. Eufaula, Ala. 118 *Jackson Pl.*
S. B., Alabama Polytechnic Institute, 1901.

ROBERT BARNARD SLOCUM. Albany, N.Y. 1014 *N. Broadway.*
Ph. B., University of Rochester, 1900, and Graduate Student, 1900-01.

LEWIS FREDERIC SMEAD. Columbus, O. 1032 *N. Broadway.*
A. B., Wooster University, 1901; Summer School, University of Wisconsin, 1901.

CHARLES WALTER STONE. Ben Avon, Pa. 1043 *N. Broadway.*
A. B., Washington and Jefferson College, 1901.

CAROLINE BENSON TOWLES. Baltimore. 131 *W. Twentieth St.*
A. B., Woman's College of Baltimore, 1893.

LUCIUS TUTTLE. New Haven, Conn. 520 *N. Broadway.*
A. B., Yale University, 1901.

DOUGLAS VANDERHOOF. Baltimore. 1313 *N. Luzerne St.*
B. L., Dartmouth College, 1901.

RUFUS ADRIAN VAN VOAST. Cincinnati, O. 804 *N. Broadway.*
Ph. B., Yale University, 1900; Student, University of Cincinnati, 1901.

EGBERT HAMMOND P. WARD. White Plains, N.Y. 804 *N. Broadway.*
A. B., Columbia University, 1901.

GEORGE HOYT WHIPPLE. Ashland, N. H. 104 *Jackson Pl.*
A. B., Yale University, 1900.

HARRY ISAAC WIEL. San Francisco, Cal. 1707 *Fairmount Av.*
A. B., Leland Stanford Jr. University, 1900; Student, Harvard University, 1901.

NANNIE LEE WINN. Clayton, Ala. 12 *N. Ann St.*
A. B., Woman's College of Baltimore, 1900.

HIRAM LAMONT YOUTZ. Des Moines, Ia. 1032 *N. Broadway.*
Ph. B., Brown University, 1900, and A. M., 1901.

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Second Year

HENRY ADSIT. Hornellsville, N. Y. 731 *W. Lanvale St.*
A. B., Princeton University, 1902.

FRANK C. AINLEY. Des Moines, Ia. 1735 *N. Broadway.*
S. B., Drake University, 1902.

VIVIA BELLE APPLETON. Tama, Ia. 2103 *Oak St.*
A. B., Cornell University, 1901, and Medical Department, 1901-02.

FREDERIC WOLCOTT BANCROFT. Denver, Colo. 1117 *N. Eutaw St.*
A. B., Leland Stanford Jr. University, 1902.

HERSCHEL WINSTON BASS. Ashville, Ala. 1041 *N. Broadway.*
S. B., Alabama Polytechnic Institute, 1901, and M. S., 1902.

FRANK C. BEALL. Fort Worth, Tex. 802 *N. Broadway.*
S. B., University of Texas, 1902.

EDWARD BAILEY BEASLEY. Baltimore. 1314 *Bolton St.*
A. B., Johns Hopkins University, 1902.

HENRY BEEUWKES. Baltimore. 2005 *Druid Hill Av.*
A. B., Johns Hopkins University, 1902.

ALBERT HENRY BEIFELD. Chicago, Ill. 126 *Jackson Pl.*
A. B., Harvard University, 1902.

GAINS WILLIAMS BILLUPS. North, Va. 929 *Patterson Park Av.*
A. B., Rock Hill College, 1902.

JULIAN RAYMOND BLACKMAN. Hastings, Neb. 533 *N. Wolfe St.*
A. B., University of Nebraska, 1902.

PHOEBE MAY BOGART. New York City. 144 *Jackson Pl.*
A. B., Wellesley College, 1902.

WALTER JAMES BOLAND. Troy, N. Y. 118 *Jackson Pl.*
A. B., Williams College, 1902.

EDWARDS BENNETT BROWN. Beloit, Wis. 1019 *N. Broadway.*
A. B., Beloit College, 1901; Wisconsin College of Physicians and Surgeons, 1901-1903.

LOUIS HERBERT BURLINGHAM. Willimantic, Conn. 310 *E. 22nd St.*
A. B., Yale University, 1902.

CHARLES METCALFE BYRNES. Natchez, Miss. 125 *Jackson Pl.*
S. B., University of North Carolina, 1902.

JOHN ROBERTS CAULK. Easton. 103 *Jackson Pl.*
A. B., St. John's College, 1901; Georgetown University, 1901-02.

FRANK HIGBEE CHURCH. Boonville, N.Y. 1014 *N. Broadway.*
A. B., Hamilton College, 1902.

OREN HOWARD COBB. New York City. 424 *N. Broadway.*
A. B., Harvard University, 1902.

T. HOMER COFFIN. Spencer, Ia. 619 *N. Wolfe St.*
S. B., Penn College, 1901.

HERBERT PHALON COLE. Fergus Falls, Minn. 318 *N. Broadway.*
A. B., St. Lawrence University, 1901; Student of Medicine, University of Minnesota, 1901-02.

EGERTON L. CRISPIN. Salem, N. J. 619 *N. Wolfe St.*
Ph. B., Illinois College, 1902.

ERNEST SAMUEL CROSS. Exeter, N. H. 318 *N. Broadway.*
A. B., Dartmouth College, 1901.

VICTOR FRANCIS CULLEN. Williamsport, 929 *Patterson Park Av.*
A. B., Rock Hill College, 1902.

GASTON DAY. Tallahassee, Fla. 1735 *N. Broadway.*
S. B., Florida State College, 1902.

RICHARD NIXON DUFFY. New Berne, N. C. 520 *N. Broadway.*
A. B., University of North Carolina, 1902.

FRANCIS FISHER EBERSOLE. Mount Pleasant, Pa. 527 *N. Wolfe St.*
A. B., Cornell College, 1902.

JOHN ANDREW FREESE. Cadwell, Ill. 422 *N. Broadway.*
A. B., University of Illinois, 1902.

EUGENE PRICE GRAY. Winston-Salem, N. C. 520 *N. Broadway.*
A. B., University of North Carolina, 1902.

HERBERT LEE GRAY. Waterville, Me. 1119 *Bolton St.*
A. B., Colby College, 1902.

INSLEE BLAIR GREENE. Belvidere, N.J. 310 *E. 22nd St.*
Ph. B., Yale University, 1902.

FRANKLIN WEBB GRIFFITH. Upper Marlboro. 1021 *N. Broadway.*
A. B., Western Maryland College, 1902.

ARTHUR HEYWOOD GRISWOLD. Worcester, Mass. 106 *Jackson Pl.*
A. B., Harvard University, 1902.

HENRY HONEYMAN HAZEN. Washington, D. C. 1005 *McCulloh St.*
A. B., Johns Hopkins University, 1902.

HENRY FREDERIC HELMHOLZ. Milwaukee, Wis. 106 *Jackson Pl.*
S. B., University of Wisconsin, 1902; Summer Quarter, University of Chicago, 1902.

CHARLES WILLIAM HENNINGTON. Buffalo, N.Y. 1632 *Jefferson St.*
S. B., University of Rochester, 1902.

MINERVA HERRINTON. Greenville, Ia. 605 *St. Paul St.*
A. B., Cornell College, 1900; Graduate Student, Lewis Institute (Chicago), 1902.

JOSEPH HENRY HEWITT. Mapleton, Va. 533 *N. Wolfe St.*
A. B., University of North Carolina, 1899, and Medical Department, 1901-02; Harvard Medical School, Summer, 1902.

GEORGE CLARENCE HINDS. Milton, Mass. *Hotel Hopkins.*
A. B., Harvard University, 1902.

FRANK HINMAN. Forest Grove, Ore. 140 *Jackson Pl.*
A. B., Leland Stanford Jr. University, 1902.

JOSEPHINE D. HUNT. Lexington, Ky. 1405 *Park Av.*
A. M., Kentucky University, 1902.

ELLIOTT H. HUTCHINS. Barstow. 127 *N. Broadway.*
A. B., St. John's College, 1902.

CLARENCE B. INGRAHAM, JR. Hartford, Conn. 1223 *McCulloh St.*
Ph. B., Yale University, 1902.

LAWRENCE LEOPOLD ISEMAN. Kansas City, Mo. 813 *Harlem Av.*
Ph. B., Lafayette College, 1902.

WLLLIAM FINNEY KELLAM. Wachapreague, Va. 505 *N. Wolfe St.*
A. B., Randolph-Macon College, 1902.

EUGENE ROBERT KELLY. Bangor, Me. 318 *N. Broadway.*
A. B., Bowdoin College, 1902.

JOHN HENDRICKEN KING. Baltimore. *The Albion.*
A. B., Johns Hopkins University, 1899, and Graduate Student, 1899-1902.

MARY BARKER KINGSBURY. Pottsville, Pa. 239 *W. Biddle St.*
A. B., Wellesley College, 1899; Harvard Summer School, 1899.

WILHELM EDMUND HARMON KRECHTING. New Germantown, N. J.
A. B. Princeton University, 1902. 1020 *W. Lanvale St.*

HARRY LESLIE LANGNECKER. New Brighton, Pa. 516 *Park Av.*
A. B., Leland Stanford Jr. University, 1901.

ANDRE EDWARD LEE. San Francisco, Cal. 136 *Jackson Pl.*
A. B., Leland Stanford Jr. University, 1902.

JOSEPH STOCKING LEWIS. Buffalo, N.Y. 220 *E. Eager St.*
A. B., Canisius College, 1902.

DAVID ISRAEL MACHT. Baltimore. 1707 *E. Baltimore St.*
A. B., Johns Hopkins University, 1902.

GEORGE MARSDEN New Bedford, Mass. 414 *W. Hoffman St.*
Ph. B., Brown University, 1900.

ENOCH MARVIN MASON. Birmingham, Ala. 1041 *N. Broadway.*
S. B., Alabama Polytechnic Institute, 1900, and M. S., 1901.

CARL R. MELOY. Springfield, O. 1743 *Jefferson St.*
A. B., Wittenberg College, 1902.

ROBERT EMORY MOORE. Baltimore. 1347 *York Road.*
A. B., Johns Hopkins University, 1902.

ARTHUR HENRY MORSE. Salem, Mass. 127 *N. Broadway.*
A. B., Tufts College, 1902; Harvard Medical School, Summer of 1903.

AGNES GORDON MURDOCH. Baltimore. 410 *Cathedral St.*
A. B., Woman's College of Baltimore, 1902.

LYMAN CLEMENTS MURPHY. Burlington, N. C. 930 *Madison Av.*
A. B., Johns Hopkins University, 1902.

MARY ELEANOR NAST. Cincinnati, O. 144 *Jackson Pl.*
A. B., Woman's College (Balt.), 1902; University of Chicago, 1902-03.

JOHN FRANCIS ORTSCHILD. Portland, Ore. 318 *N. Broadway.*
A. B., Leland Stanford Jr. University, 1899.

CARROLL DUNHAM PARTRIDGE. Bennington, Vt. 520 *N. Broadway.*
S. B., University of Vermont, 1900.

ROBERT PATEK. San Francisco, Cal. 126 *Jackson Pl.*
S. B., University of California, 1901.

ISAAC ROSENBAUM PELS. Baltimore. 1509 *Madison Av.*
A. B., Johns Hopkins University, 1902.

DAMON BECKETT PFEIFFER. Williamstown, N. J. 120 *Jackson Pl.*
A. B., Princeton University, 1902.

BENJAMIN SWAYNE PUTTS. Baltimore. 1115 *W. Lanvale St.*
A. B., Johns Hopkins University, 1902.

RALPH R. REA. Grundy Center, Ia. 127 *N. Broadway.*
S. B., Iowa State University, 1899.

FRANCIS HAMILTON REDEWILL. Berkeley, Cal. 127 *N. Broadway.*
S. B., University of California, 1902.

RICHARD FREDERIC LOT RIDGWAY. Cream Ridge, N.J. 212 *N. Broadway.*
A. B., Princeton University, 1898, and A. M., 1902.

HENRY CAMP RUSS. Hartford, Conn. 1717 *Fairmount Av.*
A. B., Yale University, 1902.

HAROLD PAINE SAWYER. Lansingburg, N.Y. 2103 *Oak St.*
S. B., University of Alabama, 1902.

EDWIN HENRY SCHORER. Plymouth, Wis. 306 *W. Lanvale St.*
S. B., University of Wisconsin, 1902.

LAMAR SEELEY. Portland, Ore. 529 *N. Wolfe St.*
A. B., Williams College, 1902

RALPH BERGER SEEM. Bangor, Pa. 318 *N. Broadway.*
Ph. B., Lafayette College, 1902.

FRANK JOSEPH SLADEN. Portland, Ore. 1223 *McCulloh St.*
A. B., Yale University, 1902.

HARRY GORDON SLOAN. Pittsburg, Pa. 212 *N. Broadway.*
A. B., Washington and Jefferson College, 1902.

HARVEY BRINTON STONE. Towson. *Towson.*
A. B., Johns Hopkins University, 1902.

PERSIS R. STRAIGHT. Bradford, Pa. 800 *N. Broadway.*
A. B., Smith College, 1902.

SOLOMON STROUSE. Baltimore. 1704 *Eutaw Pl.*
A. B., Johns Hopkins University, 1902.

HENRY CLARKE THACHER. Baltimore. 209 *E. Preston St.*
A. B., Yale University, 1902, and Medical Department, 1902-03.

PHILIP PICKERING THOMPSON. Portland, Me. 318 *N. Broadway.*
A. B., Dartmouth College, 1902; Medical School of Maine, 1902-03.

WILLIS WILLARD WAITE. Brooklyn, Wis. 1250 *N. Broadway.*
S. B., University of Wisconsin, 1902.

HAROLD RANDALL WEBB. Brunswick, Me. 1020 *N. Broadway.*
A. B., Bowdoin College, 1902.

GEORGE HOWARD WHITE, JR. Catonsville. *Catonsville.*
A. B., Princeton University, 1902.

FREDERICK PETHERAM WILBUR. Skaneateles, N. Y. 118 *Jackson Pl.*
A. B., Williams College, 1902.

JOHN ARTHUR WINTER. Negaunee, Mich. 103 *Jackson Pl.*
A. B., University of Michigan, 1902.

GILMAN JOSEPH WINTHROP. Tallahassee, Fla. 1640 *N. Broadway.*
A. B., University of the South, 1902.

BENJAMIN EDGAR WOLFORT. St. Louis, Mo. 108 *Jackson Pl.*
S. B., University of Pennsylvania, 1902, and Medical Department, 1901-02.

SAMUEL WOLMAN. Baltimore. 1211 *McElderry St.*
A. B., Johns Hopkins University, 1902.

THOMAS MELVILLE WRIGHT, JR. Troy, O. 823 *N. Washington St.*
A. B., Indiana University, 1901.

PEREGRINE WROTH, JR. Baltimore. 215 *E. Preston St.*
A. B., Johns Hopkins University, 1902.

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First Year

MERLE THERON ADKINS. Troy, Wis. 1019 *N. Broadway.*
S. B., Beloit College, 1903.

SIDNEY HERMAN ADLER. Baltimore. 809 *Newington Av.*
A. B., Johns Hopkins University, 1904.

WALTER LEWIS BARBER, JR. Waterbury, Conn. 113 *W. Saratoga St.*
A. B., Yale University, 1903.

FRANCIS MERRIMAN BARNES, JR. Middletown, N.Y. 432 *N. Broadway.*
A. B., Hamilton College, 1903.

EDWARD GRANT BIRGE. Madison, Wis. 1025 *N. Broadway.*
S. B., University of Wisconsin, 1903.

MONTAGUE LAFFITTE BOYD. Oxford, Ga. 1757 *Jefferson St.*
Ph. B., Emory College, 1903.

LEVERETT DALE BRISTOL. Washington, D. C. 1734 *E. Fayette St.*
S. B., Wesleyan University (Conn.), 1903.

CHESTER TIMOTHY BROWN. Atlantic City, N.J. 1502 *Linden Av.*
S. B., Rutgers College, 1903.

WADE HAMPTON BROWN. Marshall, Tex. 1022 *N. Broadway.*
S. B., University of Nashville, 1899; University of Chicago, 1902-03.

FREDERICK DABNEY BULLOCK. Lexington, Ky. 632 *N. Washington St.*
S. B., Kentucky State College, 1899.

EDWARD KIMBALL BURBECK. Manchester, N. H. 821 *N. Broadway.*
A. B., Dartmouth College, 1903.

CHARLES BURNSIDE. Audubon, Ia. 1720 *Fairmount Av.*
Ph. B., Iowa College, 1903.

WAID EDWIN CARSON. Ripley, W. Va. 1725 *Jefferson St.*
A. B., Ohio Wesleyan University, 1900; Spring and Summer Quarters, University of Chicago, 1903.

JAMES H. CHESTNUTT. Hot Springs, Ark. 908 *N. Broadway.*
A. B., University of Virginia, 1903.

ELIOT ROUND CLARK. Wethersfield, Conn. 1717 *Fairmount Av.*
A. B., Yale University, 1902.

PAUL WISWALL CLOUGH. Portage, Wis. 1025 *N. Broadway.*
S. B., University of Wisconsin, 1903.

EDWARD VINCENT COOLAHAN. Baltimore. 41 *S. Schroeder St.*
A. B., Rock Hill College, 1903.

FRED YOHN CRONK. Westminster. 1202 *E. Preston St.*
S. B., St. John's College, 1903.

ROBERT LAW CUNNINGHAM. Newburgh, N.Y. 122 *Jackson Pl.*
A. B., Wabash College, 1903.

CLINE FLEMMING DAVIDSON. Crawfordsville, Ind. 718 *N. Broadway.*
S. B., Wabash College, 1900; University of Illinois, 1901-03.

PAUL HERMAN DERNEHL. Milwaukee, Wis. 1025 *N. Broadway.*
S. B., University of Wisconsin, 1903.

WILLIAM WERT DINSMORE. Decatur, Ala. 1041 *N. Broadway.*
S. B., Alabama Polytechnic Institute, 1903.

ALPHONSE RAYMOND DOCHEZ. Harford Furnace. 710 *Park Av.*
A. B., Johns Hopkins University, 1903.

ROBERT WEYER DUNLAP. Washington, Pa. 1520 *E. Monument St.*
A. B., Washington and Jefferson College, 1903.

DAN HUGHES DUPREE. Danville, Ga. 122 *Jackson Pl.*
S. B., University of Georgia, 1903.

RICHARD TILGHMAN EARLE. Centreville. 1520 *E. Monument St.*
Ph. B., Dickinson College, 1903.

WILLIS DEW GATCH. Aurora, Ind. 127 *Jackson Pl.*
A. B., Indiana University, 1901.

WILHELMINA VON GERBER. Weston, Mass. 429 *N. Broadway.*
A. B., Bryn Mawr College, 1903.

GEORGE BURTON GILBERT. Thomaston, Conn. 111 *Jackson Pl.*
A. B., Yale University, 1903.

HENRY GRABER. Royersford, Pa. 1216 *Madison Av.*
A. B., Ursinus College, 1903.

CLYDE GRAEME GUTHRIE. Indiana, Pa. 813 *Harlem Av.*
A. B., Lafayette College, 1903.

ALECK PERKINS HARRISON. Tallahassee, Fla. 122 *Jackson Pl.*
A. B., Florida State College, 1899.

MILTON HAHN. Washington, D. C. 107 *Jackson Pl.*
A. B., Harvard University, 1903.

GEORGE WASHINGTON K. HARTMAN. Merced, Cal. 1520 *E. Monument St.*
S. B., University of California, 1903.

FRANKLIN HAZLEHURST, JR. Baltimore. 2112 *St. Paul St.*
A. B., Johns Hopkins University, 1903.

RALPH WELLINGTON HELLENBRAND. Old Town, Me. 432 *N. Broadway.*
A. B., Bowdoin College, 1903.

ELIZABETH SINGLEY HELLWEG. Baltimore. 210 *S. Washington St.*
A. B., Woman's College of Baltimore, 1899.

GLADYS ROWENA HENRY. Burchard, Neb. 144 *Jackson Pl.*
S. B., University of Nebraska, 1900.

GEORGE JULIUS HEUER. Madison, Wis. 1025 *N. Broadway.*
S. B., University of Wisconsin, 1903.

EBEN CHARLES HILL. Baltimore. 2120 *N. Charles St.*
A. B., Johns Hopkins University, 1903.

CHARLES LANE HINCHER. Kent, N. Y. 908 *N. Broadway.*
S. B., University of Rochester, 1903.

JOSEPH GARDNER HOPKINS. Brooklyn, N. Y. 120 *Jackson Pl.*
A. B., Columbia University, 1902.

PHILIP HUGHES. Lima, Ind. 122 *Jackson Pl.*
A. B., Wabash College, 1903.

HERBERT LESTER KELLEY. Franklin Falls, N. H. 422 *N. Broadway.*
A. B., Dartmouth College, 1903.

ALLEN KRAMER KRAUSE. Lebanon, Pa. 113 *Jackson Pl.*
A. B., Brown University, 1901, A. M., 1902, and Graduate Student, 1902-1903.

WILLIAM OSCAR LAMOTTE. LaMotte. 1202 *E. Preston St.*
S. B., St. John's College, 1902.

SALLY PORTER LAW. Hartford, Conn. 429 *N. Broadway.*
A. B., Bryn Mawr College, 1903.

TIMOTHY LYMAN. Barre, Mass. 821 *N. Broadway.*
A. B., Dartmouth College, 1903.

BETHUEL BOYD VINCENT LYON. Philadelphia, Pa. 107 *Jackson Pk.*
A. B., Williams College, 1903.

PERRY WILLIAM MCLAUGHLIN. Mason-Dixon, Pa. 331 *St. Paul St.*
A. B., Pennsylvania College, 1903.

EDWARD FALL MALONE. Nashville, Tenn. 515 *Cathedral St.*
A. B., Vanderbilt University, 1903.

NORRIS GREY ORCHARD. Fargo, N. Dak. 116 *Jackson Pl.*
S. B., Fargo College, 1903.

FRED THOMAS OWENS. West Winfield, N. Y. 432 *N. Broadway.*
A. B., Hamilton College, 1903.

CHARLES BENJAMIN PALMER. Little Falls, N.Y. 1021 *N. Broadway.*
A. B., Harvard University, 1901.

WILLIAM TURNER PARSONS. Baltimore. 1623 *N. Calvert St.*
A. B., Johns Hopkins University, 1903.

WILLIAM OTTO PAULI. Cincinnati, O. *Ann St. & Fairmount Av.*
A. B., University of Cincinnati, 1902.

GEORGE PEIRCE. Haverford, Pa. 1412 *E. Chase St.*
A B., Haverford College, 1903.

EUGENE LEO PESSAGNO. Baltimore 908 *Eastern Av.*
A. B., Johns Hopkins University, 1903.

HARRY WARD PLAGGEMEYER. Baltimore. 1040 *Hopkins Av.W.*
A. B., Johns Hopkins University, 1903.

PAUL PREBLE. Auburn, Me. 432 *N. Broadway.*
A. B., Bowdoin College, 1903.

ALEXANDER RANDALL. Annapolis. 103 *Jackson Pl.*
A. B., St. John's College, 1902; Graduate Student, Johns Hopkins University, 1902-1903.

DANIEL PATTEE RAY. Tyrone, Pa. 1520 *E. Monument St.*
A. B., Dickinson College, 1903.

CLARENCE ADAIR RHODES. Buchanan, Va. 806 *N. Broadway.*
A. B., Randolph-Macon College, 1903.

CHARLES WOODWARD RILEY. Baltimore. 1113 *Madison Av.*
A. B., Johns Hopkins University, 1903.

FREDERICK AUGUSTUS ROEKEL. Zanesville, O. 12 *N. Ann St.*
Ph. B., Ohio State University, 1903.

EDGAR POE SANDROCK. Baltimore. 1242 *N. Broadway.*
A. B., Johns Hopkins University, 1903.

HIRAM SIBLEY SCHUMACHER. Rochester, N.Y. 908 *N. Broadway.*
Ph. B., University of Rochester, 1903.

WILL FARQUHAR SHALLENBERGER. Edgewood, Pa. 212 *N. Broadway.*
A. B., Washington and Jefferson College, 1903.

GEORGE ARTHUR SMITH. Hartford, Conn. 111 *Jackson Pl.*
A. B., Yale University, 1903.

JOSEPH TATE SMITH, JR. Baltimore. 1010 *Madison Av.*
A. B., Johns Hopkins University, 1903.

CHARLES GRANVILLE SOUDER. Lafayette, Ind. 1024 *N. Broadway.*
S. B., Ohio State University, 1903.

CHARLES HENRY STUBENRAUCH. Baltimore. 2027 *McCulloh St.*
A. B., Johns Hopkins University, 1903.

WILLIAM MONTEFIORE THALHIMER. Richmond, Va. 910 *Newington Av.*
S. B., Richmond College, 1903; Cornell Universty, Summer Sessions of 1902 and 1903.

CHARLES HENRY TURKINGTON. Morris, Conn. 1717 *Fairmount Av.*
Ph. B., Yale University, 1903.

PERCY THEODORE WATSON. Northfield, Minn. 1019 *N. Broadway.*
A. B., Carleton College, 1903.

WILLIAM HENDERSON WHITE. Carlisle, Pa. 1520 *E. Monument St.*
A. B., Dickinson College, 1903.

MILTON CHARLES WINTERNITZ. Baltimore. 116 *S. Broadway.*
A. B., Johns Hopkins University, 1903.

PHYSICIANS ATTENDING SPECIAL COURSES, 1903-1904.

WILLIAM G. BOOTH. Seattle, Wash.
M. D., Baltimore Medical College, 1898. *Surgery.*

D. GEORGE J. CAMPBELL. Halifax, N. S. 600 *N. Broadway.*
M. D. C. M., Dalhousie University, 1902. *Pathology and Surgery.*

PHILIP EUGENE CRAIG. Baltimore. 1026 *Edmondson Av.*
M. D., Baltimore Medical College, 1897. *Surgery.*

CHARLES L. CREIDER. Zanesville, O. 806 *N. Broadway.*
M. D., Starling Medical College, 1890. *Surgery.*

JOSEPH FIFE. San Francisco, Cal.
S. B., University of California, 1894; M. D., Cooper Medical College, 1896. *Pathology and Medicine.*

BOYCE W. FONTAINE. Barnes, La. *Hotel Hopkins.*
M. D., University of Pennsylvania, 1897. *Medicine.*

ROBERT C. FORSYTH. St. Louis, Mo. 800 *N. Broadway.*
M. D., Washington University, 1902. *Medicine and Pathology.*

JOSEPH I. FRANCE. Baltimore. 1311 *N. Charles St.*
A. B., Hamilton College, 1895; M. D., College of Physicians and Surgeons (Balt.), 1903. *Medicine, Neurology, and Pathology.*

DONALD J. FRICK. Los Angeles, Cal. 113 *Jackson Pl.*
M. D., University of California, 1899. *Bacteriology and Medicine.*

EPHRAIM G. GOWANS. Mt. Pleasant, Utah. 17 *N. Ann St.*
S. B., Brigham Young College (Utah), 1894; M. D., Baltimore Medical College, 1897. *Anatomy and Neurology.*

EMERSON L. HODGINS. Lucan, Ont. 318 *N. Broadway.*
M. B., University of Toronto, 1903. *Pathology.*

KINGSLEY HOLMES. Chatham, Ont. 318 *N. Broadway.*
M. B., University of Toronto, 1903. *Pathology.*

MILTON S. IRELAND. Atlantic City, N. J.
M. D., Jefferson Medical College, 1902. *Surgery.*

RONALD MACKECHNIE. Brighton, Ont. *Catonsville.*
M. D. C. M., Trinity University (Toronto), 1900. *Surgery.*

WALTER N. MINER. Calais, Me. 713 *Harlem Av.*
M. D., Baltimore Medical College, 1898. *Surgery.*

HARRY D. PURDUM. Baltimore. *Bay View Asylum.*
M. D., University of Maryland, 1902. *Pathology.*

AUSTEN F. RIGGS. New York City. 809 *Park Av.*
M. D., Columbia University, 1902. *Pathology.*

J. LAZELLE SAWYERS. Centreville, Ia. *The Albion.*
M. D., Chicago Medical College, 1878. *Bacteriology.*

EMILE SCHMOLL. Basle, Switzerland. 600 *N. Broadway.*
M. D., University of Basle, 1896. *Pharmacology.*

JOHN B. SCHWATKA. Baltimore. 1003 *N. Broadway.*
M. D., University of Maryland, 1882. *Dermatology.*

WILLIAM H. SMITH. Baltimore.
M. D., University of Maryland, 1900. *Pathology.*

CLARA S. STOLTENBERG. Stanford University, Cal.
A. B., Leland Stanford University, 1896, and A. M., 1897. *Neurology and Pathology.*

HEDLEY V. TWEEDIE. Baltimore. 664 *W. Fayette St.*
M. D., Baltimore Medical College, 1897. *Orthopedic Surgery.*

CHARLOTTE C. WEST. Philadelphia, Pa. 513 *Cathedral St.*
M. D., Woman's Medical College (Phila.), 1894. *Bacteriology.*

VIRGIL G. WILLIAMS. La Grange, Ga. 1012 *N. Broadway.*
M. D., College of Physicians and Surgeons (Balt.), 1901. *Surgery and Pediatrics.*

HAMILTON WRIGHT. Baltimore. 311 *Oakdale Rd., Roland Pk.*
M. D. C. M., McGill University, 1895; late Organizing Director, Institute for Medical Research in the Federated Malay States of the London School of Tropical Studies. *Pathology.*

PHYSICIANS ATTENDING SPECIAL COURSES, APRIL, MAY, AND JUNE, 1903

[Not enrolled in the Register for 1902-03]

CHARLES B. ALLEN. Otterbein, Ind.
M. D., Northwestern University, 1898. *Obstetrics and Gynecological Diagnosis.*

HOMER J. BIRNEY. Whatcom, Wash.
M. D., Rush Medical College, 1882. *Medicine, Surgery, Clin. Microscopy, and Surg. Pathology.*

FRANCIS JAMES BURROWS. Seaforth, Ont.
M. D., Trinity College (Canada), 1893. *Medicine, Clin. Microscopy, Pathology, and Phys. Diagnosis.*

ELMORE E. BUTTERFIELD. Washington, D. C.
M. D., Columbian University, 1903. *Pathology.*

C. N. CALLANDER. Fargo, N. D.
M. B., Trinity Medical College (Toronto), 1897. *Medicine, Pathology, and Phys. Diagnosis.*

ELWYN W. CAPEN. Stoughton, Mass.
M. D., Boston University, 1892. *Medicine and Dermatology.*

JEAN M. COOKE. Chicago, Ill.
M. D., University of Michigan, 1895. *Pathology, Surg. and Gynecol, Pathology, and Clin. Microscopy.*

KARL DOEGE. Marshfield, Wis.
M. D., Western Reserve University, 1890. *Surgical Pathology and Operative Surgery.*

LOUIS DUNN. Corinth, Ky.
M. D., Ohio Medical College (Cincinnati), 1887. *Medicine, Pathology, and Clin. Microscopy.*

JOSEPH E. GATELY. Baltimore.
M. D., University of Maryland, 1902. *Physical Diagnosis.*

ARTHUR R. GOULD. Baltimore.
M. D., Baltimore Medical College, 1903. *Medicine, Surg. Pathology, and Operative Surgery.*

JOSEPH R. T. GRAY. Chester, Pa.
M. D., Hahnemann Medical College, 1898. *Bacteriology, Pathology, and Gynecol. Pathology.*

HENRY GREEN. Dothan, Ala.
M. D., Medical College of Alabama (Mobile), 1892. *Surgery.*

EDITH S. HAMMOND. San Francisco, Cal.
A. B., Leland Stanford Jr. University, 1898; M. D., Cooper Medical College, 1901. *Medicine and Dermatology.*

GEORGE J. HANLEY. Moorhead, Minn.
M. D., Bellevue Hospital Medical College (N. Y.), 1887. *Gynecology, Gynecol. Diagnosis, and Pathology.*

DAVID E. HOFF. Union Bridge.
M. D., University of Maryland, 1902. *Operative Surgery, Laryngology, and Rhinology.*

HENRY WARNER JOHNSON. Hudson, N. Y.
A. B., Hamilton College, 1889, and A. M., 1892; M. D., Albany Medical College, 1891. *Surgery, Operative Surgery, and Phys. Diagnosis.*

LOREN B. T. JOHNSON. Washington, D. C.
M. D., Georgetown University, 1900. ***Medicine.***

FREDERICA A. KEEP. Los Angeles, Cal.
M. D., University of Southern California, 1900. ***Medicine.***

CHARLES L. KING. Pasadena, Cal.
M. D., Northwestern University, 1880. ***Medicine.***

ALONZO F. KRAMPS. Chicago, Ill.
M. D., Rush Medical College, 1895. ***Physical Diagnosis.***

FREDERIC MORTIMER LAWRENCE. Philadelphia, Pa.
A. M., Syracuse University, 1891; M. D., Hahnemann Medical College, 1894. ***Phys. Diagnosis, Pathology, and Bacteriology.***

ISAAC I. LEMANN. New Orleans, La.
A. B., Tulane University, 1895, and Harvard University, 1896; M. D., Tulans University, 1900. ***Gynecol. Diagnosis, Gynecol. Pathology, and Cystoscopy.***

EDWARD C. LESLIE. Pittsburg, Pa.
M. D., Hahnemann Medical College, 1901. ***Medicine, Clin. Microscopy, and Gynecol. Diagnosis.***

H. JUDSON LIPES. Albany, N. Y.
M. D., Albany Medical College, 1897. ***Obstetrics, Cystoscopy, Gynecol. Pathology, and Gynecol. Diagnosis.***

ARTHUR E. MAISCH. Globe, Ariz.
M. D., Missouri Medical College (St. Louis), 1896. ***Rhinology and Laryngology, Anatomy, Medicine, and Clin. Microscopy.***

HARRINGTON MARR. Nashville, Tenn.
M. D., Vanderbilt University, 1896. ***Medicine and Phys. Diagnosis.***

WILLIAM R. MAY. Baltimore.
A. B., Harvard University, 1894, and M. D., 1898. ***Pathology, Bacteriology, and Operative Surgery.***

ALBERTUS NEWSON. Baltimore.
M. D., Jefferson Medical College, 1892. ***Pediatrics.***

FRANK D. PEASE. Ft. Harrison, Mont.
M. D., Jefferson Medical College, 1893. ***Medicine, Pathology, and Phys. Diagnosis.***

JAMES A. PETTIT. Roseland, Va.
M. D., University of Virginia, 1896. ***Physical Diagnosis.***

ERIC P. QUAIN. Bismarck, N. D.
M. D., University of Minnesota, 1898. ***Operative Surgery, Surg. Pathology, Gynecol. Diagnosis, and Cystoscopy.***

WALTHER RIDDLE. Pittsburg, Pa.
S. B., Western University of Pennsylvania, 1892; Ph. D., Heidelberg, 1894. ***Bacteriology.***

WILLIAM B. ROBERTS. Minneapolis, Minn.
S. B., University of Minnesota, 1898; M. D., Hahnemann Medical College, 1901. ***Surgical Pathology.***

GEORGE A. ROBERTSON. Louisville, Ky.
M. D., University of Louisville, 1896. ***Medicine.***

WALTER W. RHUDY. Speedwell, Va.
M. D., Richmond Medical College, 1895. ***Medicine, Gynecology, and Dermatology.***

MYRA ALLEN RUPPEL. Lynn, Mass.
M. D., Woman's Medical College (Phila.), 1896. *Gynecology, Gynecol. Pathology, and Cystoscopy.*

THEODORE H. SEDGWICK. McKeesport, Pa.
M. D., Jefferson Medical College, 1877. *Surgery and Physical Diagnosis.*

JOHN K. B. E. SEEGAR. Baltimore.
M. D., Baltimore Medical College, 1900. *Surgical and Gynecol. Pathology.*

ALAN W. SMITH. Baltimore.
M. D., College of Physicians and Surgeons (Balt.), 1895. *Operative Surgery, Rhinology and Laryngology.*

R. PERCY SMITH. Baltimore.
M. D., College of Physicians and Surgeons (Balt.), 1891. *Medicine and Phys. Diagnosis.*

WILLIAM H. SMITH. Baltimore.
M. D., University of Maryland, 1900. *Pathology.*

ERNST A. SOMMER. Oregon City, Ore.
M. D., Willamette University (Ore.), 1890. *Medicine, Surg. Pathology, Gynecol. and Phys. Diagnosis, and Cystoscopy.*

MELCHIJAH SPRAGINS. Baltimore.
M. D., University of Maryland, 1899. *Physical Diagnosis.*

MARIE J. STEES. Freeport, Ill.
M. D., Illinois Medical College, 1898. *Medicine, Gynecol. Diagnosis, and Cystoscopy.*

ELSIE R. TREICHLER. Philadelphia, Pa.
M. D., Woman's Medical College (Phila.), 1901. *Medicine.*

OSCAR P. TUCKER. Carnesville, Ga.
M. D., Atlanta College of Physicians and Surgeons, 1902. *Medicine and Obstetrics.*

HEDLEY V. TWEEDIE. Baltimore.
M. D., Baltimore Medical College, 1897. *Operative Surgery, Surg. Pathology, Laryngology and Rhinology.*

JOHN H. WALDEN. Griffithsville, W. Va.
M. D., Eclectic Medical College (Cincinnati), 1892. *Operative Surgery, Gynecol. Diagnosis, and Obstetrics.*

ELGIE L. WASSON. Butler, Pa.
M. D., Baltimore Medical College, 1898. *Gynecol. Pathology and Diagnosis and Operative Surgery.*

ABNER WEBB. Mena, Ark.
M. D., Jefferson Medical College, 1896. *Obstetrics, Gynecol. Diagnosis, and Gynecol. Pathology.*

PROSPER D. WHITE. Kingsville, Ont.
M. D. C. M., Trinity University (Ont.), 1894. *Clin. Microscopy, Gynecol. and Surg. Pathology.*

W. H. WITT. Nashville, Tenn.
A. M., Vanderbilt University, 1888, and M. D., 1894. *Medicine, Obstetrics, and Phys. Diagnosis.*

JOHN S. WILSON. Poughkeepsie, N. Y.
M. D., College of Physicians and Surgeons (N. Y.), 1887. *Phys. Diagnosis, Medicine, and Dermatology.*

T. ROBERT W. WILSON. Baltimore.
M. D., Baltimore Medical College, 1897. *Surgical Pathology.*

EDWARD C. WINSMORE. Philadelphia, Pa.
M. D., Hahnemann Medical College, 1903. *Medicine.*

UNDERGRADUATE STUDENTS

MATRICULATES

SIDNEY HERMAN ADLER. Baltimore. 809 *Newington Av.*
The Deichmann School. *Group III.*

CHARLES ROBERT AUSTRIAN. Baltimore. 1714 *McCulloh St.*
Marston's University School. *Group III.*

WALTER ALBERT BAETJER. Baltimore. 2324 *Callow Av.*
Marston's University School. *Group III.*

BYRON TREAT BANGHART. Baltimore County. *Howard Park.*
The Deichmann School. *Group VI.*

CARLYLE BARTON. Baltimore County. *Pikesville.*
Boys' Latin School, *Group VI.*

JAMES ALVIN BASS. Catonsville. *Catonsville.*
The Deichmann School. *Group III.*

JESSE LEE BENNETT. Baltimore. *P. O. Station E.*
The Hilbert School. *Group VI.*

BENJAMIN ABRAM BERNSTEIN. Baltimore. 134 *N. Exeter St.*
Baltimore City College, 1902. *Group II.*

DAVID SIMON BLONDHEIM. Baltimore. 1124 *Argyle Av.*
Baltimore City College, 1903. *Group VI.*

WILLIAM GRAHAM BOYCE. Baltimore. 217 *E. Preston St.*
The Wolfe School. *Group III.*

JOSEPH ROBSON BROMWELL BRANCH. Ellicott City. *Ellicott City.*
Boys' Latin School. *Group III.*

WALTER STEWART BRAUNS. Baltimore. 1341 *Mt. Royal Av.*
Boys' Latin School. *Group II.*

RIGGIN BUCKLER. Baltimore. 806 *Cathedral St.*
The Deichmann School. *Group II.*

HENRY THEODORE COLLENBERG. Baltimore. 1810 *E. Baltimore St.*
The Deichmann School. *Group II.*

JOHN FRANCIS CREMEN. Baltimore. 1625 *Druid Hill Av.*
Baltimore City College, 1902. *Group VI.*

WILLIAM EDMONSTON CROZIER. Baltimore. 8 *E. Mt. Royal Av.*
Marston's University School. *Group VI.*

WILLIAM EDWIN CURLEY, JR. Baltimore. 573 *Falls Road.*
The Deichmann School. *Group II.*

HORACE HATCH CUSTIS. Washington, D. C. 901 *N. Calvert St.*
Friends' School (D. C.). *Group II*

PHILIP DETTELBACH. Baltimore. 2305 *Madison Av.*
Marston's University School. *Group III.*

BARUCH MORDECAI EDLAVITCH. Baltimore. 1136 *E. Pratt St.*
Baltimore City College. *Group III.*

STANLEY STRAUSS EISEMAN. Baltimore. 1615 *Eutaw Pl.*
Marston's University School. *Group III.*

WALTER DAVID EISEMAN. Baltimore. 1804 *Eutaw Pl.*
Marston's University School. *Group VI.*

JOHN WILLIAM EMIG. York, Pa. 1402 *McCulloh St.*
York Collegiate Institute. *Group VI.*

SIDNEY CHARLES ERLANGER. Baltimore. *The Cecil, N. Eutaw St.*
Marston's University School. *Group VI.*

GEORGE ANDREW FOSTER. Johnstown, Pa. 1714 *N. Charles St.*
Mount St. Mary's College. *Group VI.*

HOWARD FREAS. Baltimore. 2114 *E. Baltimore St.*
Baltimore City College, 1903. *Group I.*

RALPH OTTOMAR FUERBRINGER. Saginaw, Mich. 1021 *Cathedral St.*
Saginaw High School. *Group III.*

ALFRED LOGSDON GEIGER. Baltimore. 607 *Wyanoke Av.*
The Deichmann School. *Group VI.*

LEMAN EDWIN GOLDMAN. Baltimore. 2246 *Madison Av.*
Baltimore City College, 1902. *Group VI.*

RUFUS KING GOODENOW. Baltimore. 1220 *Mt. Royal Av.*
Boys' Latin School. *Group VI.*

JAMES FULLERTON GRESSITT. Baltimore. 1120 *Mosher St.*
Baltimore City College, 1903. *Group II.*

ROBERTSON GRISWOLD. Baltimore. 1433 *Park Av.*
Boys' Latin School. *Group VI.*

HUGH ASBURY HACKETT. Baltimore. 121 *N. Fremont Av.*
Baltimore City College, 1901. *Group III.*

FREDERICK HOME HACK, JR. Baltimore. 1211 *St. Paul St.*
Marston's University School. *Group VI.*

ORMOND WILSON HAMMOND, JR. Baltimore. 1418 *Harlem Av.*
Baltimore City College, 1903. *Group VI.*

CONRAD HARDECKER. Baltimore. 2516 *E. Fairmount Av.*
Baltimore City College, 1899. *Group VI.*

JOSIAS CLERK LEE HAWKINS. La Plata. 1502 *Malster Av.*
Baltimore City College, 1901. *Group III.*

JOSEPH STEUART HILL. Baltimore. 1200 *Madison Av.*
Baltimore City College, 1903. *Group III.*

WILLIAM HARKINSON HUDGINS. Baltimore. 1825 *Bolton St.*
Boys' Latin School, *Group VI.*

ANDREW WILMER HULL. Baltimore. 24 *E. Madison St.*
Marston's University School. *Group II.*

HARRY H. HUMRICHOUSE. Baltimore. 2324 *N. Charles St.*
The Wolfe School. *Group VI.*

WILLIAM MUSE HUNLEY. Baltimore. 403 *N. Gilmor St.*
Mr. C. Maupin, Instructor. *Group VI.*

JOHN LONG JACKSON. Baltimore. 1732 *N. Calvert St.*
Episcopal High School (Va.). *Group I.*

RICHARD NEWTON JACKSON. Salisbury. 816 *Cathedral St.*
University School (D. C.). *Group VI.*

LIONEL MARK JACOBS, JR. Tucson, Ariz. 757 *W. Fayette St.*
The Deichmann School. *Group III.*

ANDREW DICKSON JONES, JR. Baltimore. 920 *N. Charles St.*
The Deichmann School. *Group VI.*

IRVING HENRY KOHN. Baltimore. 2029 *Eutaw Pl.*
Marston's University School. *Group III.*

WALTER WILLIAM KOHN. Baltimore. 2029 *Eutaw Pl.*
Marston's University School. *Group VI.*

JOHN AUBEL KRATZ. Baltimore. 1700 *N. Calhoun St.*
Baltimore City College, 1903. *Group VII.*

WILBUR LESLIE LECRON. Baltimore. 1410 *Mt. Royal Av.*
The Hilbert School. *Group III.*

ROY STILES LICKING. York, Pa. 1039 *N. Eutaw St.*
West Chester (Pa.) Normal School. *Group VII.*

HENRY LOANE LLOYD. Baltimore. *The Arundel*
The Deichmann School. *Group VI.*

HENRY CHARLES ERNEST LOUIS. Baltimore. 2322 *Callow Av.*
Marston's University School. *Group II.*

THOMAS GRESHAM MACHEN. Baltimore. 217 *W. Monument St.*
Marston's University School. *Group II.*

JOHN MABRY MATHEWS. Baltimore. 1010 *N. Fulton Av.*
Baltimore City College. *Group VII.*

WILLIAM HOWARD MATTHAI. Baltimore. 1403 *Eutaw Pl.*
Marston's University School. *Group III.*

THOMAS POOLE MAYNARD. Mt. Airy. 1032 *N. Eutaw St.*
The Deichmann School. *Group III.*

JOHN MCGLONE. Baltimore. 613 *N. Calhoun St.*
The Deichmann School. *Group II.*

CARL KILLMANN MENGEL. Baltimore. 721 *N. Broadway.*
The Deichmann School. *Group VI.*

CARROLL RUSSELL METTEE. Baltimore. 2213 *Madison Av.*
Marston's University School. *Group II.*

CHARLES FERDINAND MEYER. Baltimore. 2301 *Eutaw Pl.*
Friends' School. *Group II.*

AUSTIN RALPH MIDDLETON. Baltimore. 334 *Elm Av., Hampden.*
Baltimore City College, 1901. *Group III.*

JONATHAN EARLE MIFFLIN. Baltimore. 1016 *Madison Av.*
Boys' Latin School. *Group IV.*

FRANCIS MORRIS MILLER. Baltimore. 908 *N. Calvert St.*
Boys' Latin School. *Group II.*

HENRY CLAY MILLER. Baltimore. 605 *Park Av.*
Milton Academy. *Group VI.*

EDWARD LEYBURN MORELAND. Baltimore County. *McDonogh.*
Boys' Latin School. *Group II.*

EDMOND HARRIS MORSE. Baltimore. *The Cecil, N. Eutaw St.*
Baltimore City College. *Group II.*

HARMON VAIL MORSE. Baltimore. *The Cecil, N. Eutaw St.*
Baltimore City College, 1902. *Group III.*

HARRY EDWARD MUHLY. Baltimore. 1115 *S. Charles St.*
Baltimore City College, 1901. *Group VI.*

SIDNEY WALLACE MURKLAND. Baltimore. 37 *W. Preston St.*
Boys' Latin School. *Group II.*

CLARENCE ALFRED NEAL. Baltimore. 419 *E. Lafayette Av.*
Private Instruction. *Group VII.*

JOHN NEWMAN NUMSEN. Baltimore. *P. O. Station E, Kate Av.*
Baltimore City College, 1901. *Group II.*

REGINALD STEVENSON OPIE. Baltimore. 14 *W. Franklin St.*
Marston's University School. *Group III.*

THOMAS OWINGS. Baltimore. 26 *E. Lanvale St.*
Warfield School. *Group VII.*

WILLIAM WATTERS PAGON. Baltimore. 937 *St. Paul St.*
Marston's University School. *Group II.*

NATHAN PUMPHREY PITCHER. Baltimore. 552 *W. Barre St.*
Baltimore City College, 1902. *Group VI.*

FRANK GIBSON PORTER. Baltimore. 1213 *Harford Av.*
The Deichmann School. *Group III.*

LEWIS BAYARD ROBINSON, JR. Baltimore. 306 *E. 22nd St.*
Baltimore City College, 1903. *Group V.*

RICHARD WEIR GARDINER ROOT. Hinsdale, Ill. 1714 *N. Charles St.*
Cornell University. *Group II.*

MERRILL ROSENFELD. Baltimore. 2221 *Eutaw Pl.*
The Deichmann School. *Group VI.*

GERALD BENJAMIN ROSENHEIM. Baltimore. 2032 *Eutaw Pl.*
Marston's University School. *Group VI.*

THOMAS DECOURSEY RUTH. Baltimore. 1726 *St. Paul St.*
Boys' Latin School. *Group I.*

CHARLES HENRY SAYLOR. Baltimore. 2418 *N. Charles St.*
Baltimore City College, 1898. *Group I.*

SAMUEL HYMAN SCHAPIRO. Baltimore. 917 *E. Pratt St.*
Baltimore City College, 1901. *Group II.*

MAURICE ROLAND SCHMIDT. Baltimore. 2906 *Parkwood Av.*
Baltimore City College, 1903. *Group III.*

JOHN BUSHROD SCHWATKA. Baltimore. 1003 *N. Broadway.*
Dr. Deichmann's School. *Group III.*

E. LELAND SHACKELFORD. Ottoman, Va. 112 *W. North Av.*
The Deichmann School. *Group VI.*

JOSEPH THEOPHILUS SINGEWALD, JR. Baltimore. 318 *S. Broadway.*
Baltimore City College, 1903. *Group II.*

EDWARD HINMAN SIRICH. Baltimore. 3011 *Clifton Av.*
Baltimore City College, 1903. *Group III.*

WILLIAM CONWELL SMITH. Baltimore. 1007 *Madison Av.*
Jacob Tome Institute. *Group III.*

HENRY WILLIAM SNYDER. Baltimore. 1515 *N. Caroline St.*
Baltimore City College, 1903. *Group I.*

HENRY GEORGE SPENCER. Baltimore. 1235 *W. Lafayette Av.*
Haverford College. *Group II.*

CARL SAMUEL STERN. Savannah, Ga. 1721 *McCulloh St.*
Savannah Preparatory School. *Group VI.*

FRANK STOLLENWERCK, JR. Dunham, Ala. 21 *E. Lanvale St.*
Boys' Latin School, *Group VI.*

WILLIAM RINGGOLD STRAUGHN. Towson. *Towson.*
Baltimore City College, 1902. *Group VI.*

JOHN MORRIS SUPER. Baltimore. 1319 *W. Lanvale St.*
Milton Academy. *Group VII.*

LYTTLETON MORGAN TOUGH, JR. Baltimore. 2311 *N. Charles St.*
The Wolfe School. *Group III.*

ISAAC CHANDLER WALKER. Portland, Me. 1025 *W. Lanvale St.*
Portland High School. *Group III.*

LEONARD GRIFFITH WALLIS. Baltimore. 302 *E. Twentieth St.*
Baltimore City College. *Group II.*

LUTHER MARTIN REYNOLDS WILLIS. Baltimore. 2126 *Maryland Av.*
Friends' School. *Group VI.*

GUSTAV HERMAN WOLTERECK. Baltimore. 628 *E. Eager St.*
Baltimore City College, 1902. *Group III.*

LAWRENCE COUNSELMAN WROTH. Baltimore. 215 *E. Preston St.*
The Wolfe School. *Group VI.*

ROBERT BAMFORD ZEIGLER. Hagerstown. 1611 *McCulloh St.*
Washington County High School. *Group I.*

EMANUEL GEORGE ZIES. Baltimore. *Athol Terrace.*
Baltimore City College, 1903. *Group III.*

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CANDIDATES FOR MATRICULATION

PAUL SIEG BELL. Baltimore. 743 *W. Lanvale St.*
The Delchmann School. *Group VI.*

ALLEN STRAFFORD BOWIE. Baltimore. 811 *Hamilton Terr.*
Lawrenceville School. *Group VI.*

THOMAS GORSUCH CAMPBELL. Baltimore County. *Owings Mills.*
Boys' Latin School, *Group VI.*

JOHN GEORGE CARL. Baltimore. 1317 *W. Baltimore St.*
The Deichmann School. *Group I.*

THOMAS RODNEY CHAMBERS. Baltimore. 18 *W. Franklin St.*
The Deichmann School. *Group III.*

AMZI BEACH CRANE. Baltimore. 2020 *Mt. Royal Terr.*
Dickinson Preparatory School. *Group VI.*

JOHN ALDEN CRANE. Baltimore County. *Pikesville.*
Marston's University School. *Group VII.*

JAMES CURLANDER. Baltimore. 2007 *Eutaw Pl.*
Private Instruction. *Group VI.*

WILLIAM ALEXANDER DICKEY, JR. Baltimore. 603 *Cathedral St.*
Private Instruction. *Group VI.*

LEWIS ALAN DILL. Baltimore. 3102 *Clifton Av.*
The Wolfe School. *Group III.*

ERNEST POHL DOETSCH. Baltimore. 733 *W. Lombard St.*
The Deichmann School. *Group III.*

HENRY SIMPSON EVANS. Baltimore. 101 *N. Carey St.*
Lehigh University. *Group II.*

HENRY FINDLAY FRENCH. Baltimore. 1016 *Cathedral St.*
Baltimore Country School. *Group VII.*

VICTOR MAX FREY. York, Pa. 2210 *N. Calvert St.*
York High School. *Group II.*

STEWART WESLEY GISRIEL. Baltimore. 1135 *Valley St.*
Lafayette College. *Group VII.*

ALVIN GREIF. Baltimore. 1710 *Eutaw Pl.*
Marston's University School. *Group III.*

GEORGE MITCHELL GRIFFITH. Baltimore. 603 *Reservoir St.*
Boys' Latin School, *Group VI.*

EDWARD LYELL GUNTS. Baltimore. 1127 *Harlem Av.*
The Deichmann School. *Group III.*

WILLIAM HENRY JURNEY, JR. Baltimore. 2134 *Bolton Av.*
Baltimore City College. *Group III.*

JOHN JAMES KINNANE. Springfield, O. 1114 *McCulloh St.*
Georgetown College (D. C.). *Group VI.*

BENJAMIN ARCHIBALD MATTINGLY. La Plata. 925 *McCulloh St.*
Maryland Normal and Preparatory School. *Group III.*

THOMAS WILBUR MEADS. Towson. *Towson.*
Milton Academy. *Group VI.*

ADDIS EMMETT MOSELEY. Baltimore. 614 *N. Howard St.*
The Wolfe School. *Preliminary Year.*

FIRMADGE KING NICHOLS. Baltimore. 535 *N. Carrollton Av.*
Boys' Latin School. *Group III.*

CHARLES JOSEPH ODEND'HAL. Baltimore. *Oakdale Av. & Pimlico Rd.*
The Deichmann School. *Group III.*

SIFFORD PEARRE. Baltimore. 1601 *Bolton St.*
Boys' Latin School. *Group VI.*

LIONEL FOSQUE REVELL. Baltimore. 1147 *N. Carey St.*
Boys' Latin School. *Group VI.*

WILLIAM HERDMAN SCHWATKA. Baltimore. 1003 *N. Broadway.*
The Deichmann School. *Group VI.*

WILLIAM LEONARD SIOUSSAT. Baltimore County. *Lake Roland.*
Marston's University School. *Group II.*

WILLIAM KNEPPER SKILLING. Lonaconing. 1721 *McCulloh St.*
Shady Side Academy (Pittsburg). *Group III.*

B. HOLLY SMITH, JR. Baltimore. 1007 *Madison Av.*
Jacob Tome Institute. *Group III.*

THOMAS SHENTON STROBHAR. Baltimore. 1411 *Bolton St.*
Williston Seminary (Mass.). *Group III.*

KEEFER SAMUEL TOMS. Frederick. 1027 *McCulloh St.*
Cornell University. *Group III.*

NEWTON EDWARD WASHINGTON WAYSON. Baltimore Co. *McDonogh.*
Boys' Latin School. *Group III.*

CHARLES EDWARD WEAKLEY, JR. Baltimore County. *Hyde.*
The Hilbert School. *Group II.*

HORACE WINFIELD WEBSTER. Baltimore. 15 *N. Chester St.*
The Deichmann School. *Group III.*

EDWARD HENRY ZIMMERMAN. Johnstown, Pa. 1735 *Guilford Av.*
Johnstown High School. *Group III.*

PAUL HUDSON ZINKHAN. Baltimore. *Bay View Asylum*
The Deichmann School. *Group III.*

(38)

SPECIAL STUDENTS

THOMAS ABBOTT BALDWIN. Baltimore Co. *Mt. Washington.*
Boys' Latin School. *Group II.*

NAZARETH S. BARSUMIAN. Aintab, Turkey.
A. B., Central Turkey College, 1901. *Group III.*

JAMES RYLAND CLARKE. Baltimore. 112 *W. North Av.*
The Deichmann School. *Group VI.*

MILTON STRAUSS ERLANGER. Baltimore. *The Cecil, N. Eutaw St.*
Marston's University School. *Group II.*

THOMAS RASIN GODEY. Baltimore. 1704 *N. Calvert St.*
The Hilbert School. *Group VI.*

WALDO HACK. Baltimore. 1211 *St. Paul St.*
Marston's University School. *Group VI.*

EDWIN JAMES HEATH. Baltimore. 1514 *E. Chase St.*
Baltimore City College, 1903. *Group VI.*

HENRY WILLARD HISS. Baltimore. *The Albion.*
Yale University. *Group III.*

EDWARD LOUIS HOLLJES. Baltimore. 332 *S. Patterson Park Av.*
Lehigh University. *Group II.*

WILLIAM RALPH JONES. Baltimore. 520 *N. Arlington Av.*
The Deichmann School. *Group III.*

EDWARD HORACE SHATTUCK. Baltimore County. *Sudbrook Park.*
Geology.

CLARENCE LORD STONE. Towson. *Towson.*
Baltimore City College. *Group VI.*

FRANK THORP, JR. Baltimore. 612 *N. Howard St.*
West Texas Military Academy. *Group II.*

HOWELL HARRIS THOMAS. Baltimore. 2207 *Eutaw Pl.*
Lehigh University. *Group VI.*

(14)

ATTENDANTS ON SINGLE COURSES

Chemistry

PHILIP IGNATIUS HEUISLER. Baltimore. 1807 *W. Baltimore St.*
Loyola College.

English

ALBERT WILLIAM RAYNER. Baltimore. 1814 *Eutaw Pl.*

Physics

WILLIAM JAMES HOLLOWAY. Salisbury. 1018 *W. Lanvale St.*
Salisbury High School; Harvard University Summer School.

Political Science

WILLIAM FRANCIS BEVAN. Baltimore. 1104 *N. Charles St.*
Marston's University School.

(4)

GOVERNMENT OF THE JOHNS HOPKINS UNIVERSITY.

FOR THE YEAR BEGINNING SEPTEMBER 1, 1903.

TRUSTEES

The Trustees are the ultimate source of authority in all matters pertaining to the university. They act collectively, through the standing committees named on page 2, and through the President of the University.

PRESIDENT

Ira Remsen

The duties of this office were thus defined by the Trustees, September 14, 1876:

The President of the University is the authorized means of communication between the Board and the various officers of instruction and administration employed in the university; it shall be his duty to consult with the professors, in respect to the development of their various departments, and the general interests of the university; to determine the appropriate duties of the Associates and Fellows; and to exercise such superintendence over the buildings, apparatus, books, and other property as will insure their protection and appropriate use. In repect to these matters and all others which concern the welfare of the university, he shall consult frequently with the Executive Committee, and he shall attend the meetings of the Board of Trustees. Purchases, alterations, repairs, and other incidental expenses must not be ordered by any of the officers of the university without his previous assent, or the expressed authority of the Board.

By resolution of the Trustees, May 2, 1892, the President of the University was constituted a member *ex officio* of the Board, and also *ex officio* a member of the Executive Committee.

ACADEMIC COUNCIL

Ira Remsen (*Pres.*)	W. H. Welch	Henry Wood
B. L. Gildersleeve	E. H. Griffin (*Sec'y*)	W. B. Clark
Paul Haupt	A. M. Elliott	J. S. Ames

By authority of the Trustees, the Academic Council (now consisting of the President and eight Professors) has met since the organization of the university to guide the various departments of study, to select the Fellows, and to act upon such other matters as may be brought before them.

BOARD OF UNIVERSITY STUDIES

Ira Remsen (*Pres.*)	W. Hand Browne	B. J. Vos
B. L. Gildersleeve	W. B. Clark	J. H. Hollander
Paul Haupt	J. S. Ames	Christopher Johnston
W. H. Welch	Frank Morley	C. C. Marden
E. H. Griffin	H. F. Reid	E. B. Mathews
W. K. Brooks	R. W. Wood	W. W. Willoughby
Maurice Bloomfield	K. F. Smith	H. C. Jones
A. M. Elliott	J. M. Baldwin	E. C. Armstrong
H. N. Morse	E. H. Spieker	Philip Ogden
Henry Wood	E. A. Andrews	D. S. Johnson
W. H. Howell	J. M. Vincent	G. B. Shattuck
J. W. Bright	C. W. E. Miller	H. L. Wilson

By request of the Academic Council (October 8, 1883) this Board, consisting of the President, nineteen Professors, and sixteen Associate Professors, has charge of the arrangements for the instruction of graduate students, and of the examinations for the degree of Doctor of Philosophy.

ADVISORY BOARD OF THE MEDICAL FACULTY

Ira Remsen (*Pres.*)	H. A. Kelly	W. H. Howell (*Dean*)
W. H. Welch	W. K. Brooks	F. P. Mall
William Osler	W. S. Halsted	J. W. Williams
H. M. Hurd	J. J. Abel	

This Board was constituted by resolution of the Trustees (April 3, 1893) "to report to the Trustees from time to time their suggestions, and to prepare and carry forward the proper arrangements for the instruction and graduation of medical students."

BOARD OF MEDICAL STUDIES

Ira Remsen (*Pres.*)	J. W. Lord	F. R. Smith
W. H. Welch	T. C. Gilchrist	H. B. Jacobs
William Osler	H. J. Berkley	Stewart Paton
H. M. Hurd	W. S. Thayer	P. M. Dawson
H. A. Kelly	J. M. T. Finney	Thomas McCrae
W. K. Brooks	R. G. Harrison	E. L. Opie
W. S. Halsted	W. W. Russell	H. H. Young
J. J. Abel	T. S. Cullen	G. L. Hunner
W. H. Howell	R. L. Randolph	Samuel Amberg
F. P. Mall	T. B. Futcher	C. P. Emerson
J. W. Williams	C. R. Bardeen	Joseph Erlanger
W. D. Booker	Walter Jones	W. H. Lewis
J. N. Mackenzie	W. G. MacCallum	F. R. Sabin
Samuel Theobald	J. C. Bloodgood	H. O. Reik
H. M. Thomas	Harvey Cushing	

This Board was created by resolution of the Trustees, January 6, 1902. It consists of the professors, clinical professors, associate professors, and associates in the medical department, and its functions are especially the consideration of the courses of instruction.

BOARD OF COLLEGIATE ADVISERS

Ira Remsen (*Pres.*)	J. S. Ames	E. B. Mathews
E. H. Griffin (*Dean*)	K. F. Smith	W. J. A. Bliss
A. M. Elliott	E. H. Spieker (*Sec'y*)	J. H. Hollander
H. N. Morse	E. A. Andrews	H. L. Wilson
Henry Wood	J. M. Vincent	J. C. Ballagh
Edward Renouf	L. S. Hulburt	J. E. Gilpin
W. Hand Browne	B. J. Vos	M. P. Brush
H. E. Greene	C. C. Marden	C. R. MacInnes

By request of the Academic Council (May 13, 1882) the Board of Collegiate Advisers, consisting of the President and of representatives from each of the chief departments of undergraduate study, confers upon the progress made by the undergraduates and special students, and conducts the examinations for matriculation and for the baccalaureate degree, under the direction of the Academic Council. The other teachers of undergraduates may be called in from time to time to consult.

By resolution of this Board (June 15, 1888) a Standing Committee was appointed to act on all routine matters. The Committee now consists of E. H. Griffin, E. Renouf, E. H. Spieker, and C. R. MacInnes.

COMMITTEE ON THE LIBRARY

Ira Remsen (*Pres.*)	W. Hand Browne	N. Murray (*Sec'y*)
B. L. Gildersleeve		

COMMITTEE ON THE GYMNASIUM

Ira Remsen (*Pres.*)	H. F. Reid	C. R. MacInnes
E. Renouf		

ADVISORY BOARD OF THE YOUNG MEN'S CHRISTIAN ASSOCIATION

Ira Remsen (*Pres.*)	E. H. Griffin (*Sec'y*)	H. L. Wilson
Eugene Levering		

OTHER OFFICERS

TREASURER OF THE UNIVERSITY
Charles J. Meyer

REGISTRAR
Thomas R. Ball

SUMMARY

FACULTY, 1903-04

President and Professors	30
Clinical Professors	7
Associate Professors	30
Associates	26
Instructors and Assistants	45
Lecturers	20
	158

The enumeration includes 76 professors and other instructors whose work lies wholly in the medical department.

STUDENTS ENROLLED, 1903-04

Graduate Students:		
Fellows by Courtesy	20	
Fellows	22	
Other Graduate Students in Philosophy	160	
Candidates for the degree of M. D.	276	
Physicians attending Special Courses*	82	
		560
Undergraduates:		
Candidates for the degree of A. B.	142	
Not candidates for a degree	18	
		160
		720
Counted twice		5
Total		715

*Including 56 entering in 1903 after the issue of the last Register.

GEOGRAPHICAL DISTRIBUTION OF STUDENTS, 1903-1904

Maryland (Baltimore, 248)	294	West Virginia,	4
Pennsylvania,	50	Florida,	4
New York,	37	Tennessee,	4
Virginia,	37	North Dakota,	4
North Carolina,	19	Washington,	3
Wisconsin,	19	Nebraska,	3
California,	17	Vermont,	3
Connecticut,	17	Arkansas,	2
Illinois,	16	Colorado,	2
Maine,	16	Mississippi,	2
Ohio,	15	Rhode Island,	2
Massachusetts,	14	Arizona,	2
Alabama,	12	Louisiana,	2
Indiana,	11	Kansas,	1
Georgia,	10	New Mexico,	1
Iowa,	10	Montana,	1
District of Columbia,	9	Utah,	1
Kentucky,	9		
New Jersey,	9		
Minnesota,	7		
Missouri,	7	Canada,	10
Texas,	6	Russia,	1
Oregon,	5	Germany,	1
New Hampshire,	5	Switzerland,	1
South Carolina,	4	Japan,	1
Michigan,	4	Turkey,	1

INSTITUTIONS IN WHICH THE STUDENTS (1903-1904) GRADUATED

Albion College, ... 1
Adelbert College, ... 1
Alabama Polytechnic Inst., . 4
Alabama, University of, . . 1
Allegheny College, . . . 1
Amherst College, ... 4
Baldwin University, . . . 1
Basle, University of, . . . 1
Beloit College, ... 3
Bethel College, ... 1
Blount College, ... 1
Bowdoin College, ... 9
Breslau, University of, . . 1
Brooklyn Polytechnic Inst., . 1
Brown University, ... 5
Bryn Mawr College, . . . 3
Bucknell University, . . . 1
California, University of, . . 4
Cambridge, University of, . 1
Canisius College, ... 1
Carleton College, ... 2
Case School of Science, . . 1
Charleston College, . . . 1
Chicago, University of, . . 1
Cincinnati, University of, . . 2
Colby College, ... 3
Colgate University, ... 1
Colorado, University of, . . 1
Columbia University, . . . 3
Columbian University, . . 4
Concordia College (Ind.), . . 1
Concordia Seminary (Mo.), . 1
Cornell College, ... 2
Cornell University, . . . 3
Cotner University, ... 1
Dalhousie University, . . . 1
Dartmouth College, . . . 7
Davidson College, ... 1
Dickinson College, ... 4
Drake University, ... 2
Earlham College, ... 2
Emory College, ... 2
Erskine College, ... 2
Fargo College, ... 1
Florida State College, . . . 3
Franklin & Marshall Coll., . 2
Fredericksburg College, . . 2
Gallaudet College, ... 1
Georgia, University of, . . 4
German Wallace College, . . 1
Guilford College, ... 2
Hamilton College, ... 4
Hampden-Sidney College, . . 3
Harvard University, . . . 10
Haverford College, . . . 3
Hobart College, ... 1
Howard College (Ala.), . . 1
Heidelberg, University of, . . 2
Illinois College, ... 1
Illinois, University of, . . . 3
Illinois Wesleyan Univ., . . 2
Indiana, University of, . . 2
Iowa College, ... 2
Iowa, University of, . . . 2
Jefferson Med. Coll., . . . 1
Johns Hopkins University, . . 86
Kentucky State College, . . 6
Knox College, ... 3
Lafayette College, ... 5
Lancaster Theol. Sem., . . . 1
Lebanon Valley College, . . 2
Leland Stanford Jr. Univ., . . 11
Loyola College, ... 1
Maine, University of, . . . 1
Maryland Agricultural Coll., . 1
Maryland, University of, . . 3
Mass. Inst. of Technology, . . 2
McGill University, ... 2
McMaster University, . . . 1
Mercer University, . . . 1
Michigan, University of, . . 5
Middlebury College, . . . 1
Millsaps College, ... 1
Minnesota, University of, . . 1
Moscow Technical School, . . 1
Mt. Allison College, . . . 1
Mt. St. Mary's College, . . 1
Nashville, University of, . . 3
Nebraska, University of, . . 3
New York University, . . . 1
North Carolina Agric. Coll., . 1
North Carolina, Univ. of, . . 10

North Dakota, Univ. of, . . 1
Northwestern College, . . 1
Ohio State University, . . . 3
Olivet College, ... 2
Ohio Wesleyan Univ., . . . 2
Pacific, University of the, . . 1
Parsons College (Ia.), . . . 1
Penn College, ... 1
Pennsylvania College, . . . 3
Pennsylvania, University of, . 1
Phys. & Surg. (Balt.), Coll. of, 1
Princeton University, . . . 13
Pritchett College, ... 1
Radcliffe College, ... 1
Randolph-Macon College, . . 17
Richmond College, ... 4
Roanoke College, ... 4
Rochester, University of, . . 4
Rock Hill College, ... 3
Rutgers College, ... 1
Sapporo Agric. Coll., . . . 1
Scio College, ... 1
Smith College, ... 1
South, University of the, . 1
Southern University, . . . 1
Southwestern University, . . 1
St. Ignatius College (Chicago), 1
St. John's College, ... 7
St. Lawrence University, . . 1
Stonyhurst College, . . . 1
Swarthmore College, . . . 1
St. Louis University, . . . 2
St. Mary's Seminary (Balt.), . 1
Syracuse University, ... 2
Texas, University of, . . . 3
Trinity College (N. C.), . . 2
Tufts College, ... 1
Ursinus College, ... 2
Valparaiso College, ... 1
Vanderbilt University, . . . 4
Vermont, University of, . . 2
Virginia Polytechnic Inst., . . 1
Virginia Theol. Seminary, . 1
Virginia, University of, . . 3
Wabash College, ... 4
Wake Forest College, . . . 4
Washington College, . . . 1
Washington & Jefferson Coll., 4
Washington & Lee Univ., . . 3
Weatherford College, . . . 1
Wellesley College, ... 2
Wesleyan Univ. (Conn.), . . 3
Western Maryland College, . 3
Western Reserve University, . 2
Western University (Ont.), . 1
Westminster College (Pa.), . 4
West Virginia Univ., . . . 1
William & Mary Coll., . . . 2
William Jewell Coll., . . . 2
Williams College, ... 4
Wisconsin, University of, . . 17
Wittenberg College, . . . 2
Wofford College, ... 2
Woman's Coll. of Baltimore, . 5
Woodstock College, . . . 1
Wooster, University of, . . 1
Yale University, ... 25

FELLOWS

ADAM T. BRUCE FELLOWS IN BIOLOGY

This Fellowship was instituted by a gift of $10,000, made in 1887 by Mrs. Bruce, of New York, to commemorate the name of her son, Adam T. Bruce, Jr., Ph. D., Fellow in Biology, 1883-84, and Instructor, 1886-87. When the institution is not named, this university is to be understood.

1888. Henry Van Peters Wilson, Ph. D. (1888), Prof. of Biology, Univ. of N. Carolina.
1889. Shozaburo Watase, Ph. D. (1890), Prof of Cellular Biology, Univ. of Tokyo.
1890. Thomas Hunt Morgan, Ph. D. (1890), Prof. of Biology, Bryn Mawr College. *Reappointed* 1891, *but resigned.*
1891. } Robert Payne Bigelow, Ph. D. (1892), Instructor in Biology and Librarian,
1892. } Mass. Inst. of Technology.
1893. Maynard Mayo Metcalf, Ph. D. (1893), Prof. of Biology, Woman's College, Baltimore.
1894. Ross Granville Harrison, Ph. D. (1894), Assoc. Prof. of Anatomy. *Did not enter on the fellowship.*
1894. Seitaro Goto, S. D., Prof. of Biology, First High School, Tokyo, Japan.
1895. Henry McElderry Knower, Ph. D. (1896), Instructor in Anatomy.
1895. }
1896. } George Lefevre, Ph. D. (1896), Prof. of Zoology, Univ. of Missouri.
1897. Franklin Story Conant, Ph. D. (1897). *Did not enter on the fellowship.*
1897. Duncan Starr Johnson, Ph. D. (1897), Assoc. Prof. of Botany.
1898. Gilman Arthur Drew, Ph. D. (1898), Prof. of Biology, Univ. of Maine. *Did not enter on the fellowship.*
1899. Caswell Grave, Ph. D. (1899), Associate in Zoology. *Resigned, and subsequently reappointed* (1900).
1900. Lawrence Edmonds Griffin, Ph. D. (1900), Prof. of Biology, Missouri Valley College.
1901. James Edwin Duerden, Ph. D. (1900), Acting Prof. of Zoology, Univ. of Mich.
1902. }
1903. } Rheinart Parker Cowles, Ph. D.

WILLIAM S. RAYNER FELLOWS IN SEMITIC LANGUAGES

The Rayner Fellowship was founded in 1899 by Mrs. Bertha Rayner Frank and Mr. Albert W. Rayner, of Baltimore, to perpetuate in this university the name of their father, Mr. William S. Rayner, who had made unusual attainments in the Hebrew language and was interested in the promotion of Semitic studies. The gift amounted to $10,000.

1899. } Karl Josef Grimm, Ph. D. (1899), Prof. of German, French, and Hebrew,
1900. } Ursinus Coll.
1901. }
1902. } Theodore Clinton Foote, Ph. D. (1902), Instr. in Biblical Literature.
1903. Gabriel Oussani, A. B., S. T. B., Prof. of Italian, Latin, and Oriental Lang., Catholic Seminary, N. Y. *Did not enter on the fellowship.*
1903. William George Seiple, A. B.

FELLOWS.

Arranged under the date of first appointment. When the institution is not named, this university is to be understood. Figures in brackets indicate the tenure of the fellowship, when it was held more than one year. *Deceased.

1876

Henry Carter Adams, Ph. D., Prof. of Political Economy and Finance, Univ. of Michigan; Statistician, Interstate Commerce Commission.—[1876-79].

*Herbert Baxter Adams, Ph. D., LL. D., Associate, Assoc. Prof., Prof. of American and Institutional History, Professor Emeritus, 1878-01.—[1876-78].

William Keith Brooks, Ph. D., LL. D., Prof. of Zoology. *Did not enter on the fellowship.*

Samuel Fessenden Clarke, Ph. D., Prof. of Natural History, Williams College. —[1876-79].

*Thomas Craig, Ph. D., Prof. of Mathematics, 1892-1900; Editor, *American Journal of Mathematics,* 1894-99.—[1876-79].

Joshua Walker Gore, C. E., Prof. of Natural Philosophy, etc., Univ. of N. C. —[1876-78].

George Bruce Halsted, Ph. D., Prof. of Mathematics, Kenyon College.—[1876-78].

Edward Hart, Ph. D., Prof. of Analytical Chemistry, Lafayette Coll.—[1876-78].

Daniel Webster Hering, C. E., Prof. of Physics, New York Univ.—[1876-78].

Malvern Wells Iles, Ph. D., Consulting Metallurgist, London, England.—[1876-78].

William White Jacques, Ph. D., Lecturer, Mass., Inst. of Tech., 1885-91; Electrical Engineer, Boston.—[1876-79].

Charles Rockwell Lanman, Ph. D., LL. D., Prof. of Sanskrit, Harvard Univ.

David McGregor Means, A. B., Prof. of Political and Mental Science, Middlebury Coll., 1877-80; Atty. at Law, New York.

Harmon Northrup Morse, Ph. D., Prof. of Analytical Chemistry. *Did not enter on the fellowship.*

Walter Hines Page, Professor in Louisville (Ky.) Male High School, 1878-79; Editor, *The World's Work,* N. Y.—[1876-78].

*Peter Porter Poinier, M. E. *Did not enter on the fellowship.*

Erasmus Darwin Preston, C. E., U. S. Coast and Geodetic Survey.—[1876-78].

*Henry Joseph Rice, Sc. D., Prof. of Natural Sciences, Brooklyn High School, 1882-85.—[1876-78].

Josiah Royce, Ph. D., LL. D., Prof. of the History of Philosophy, Harvard, —[1876-78].

Alexander Duncan Savage, B. Litt., New York.—[1876-79].

Ernest Gottlieb Sihler, Ph. D., Prof. of Latin, New York Univ.—[1876-79].

Frederick Boyd Van Vorst, A. B., Atty. at Law, New York.

*John Henry Wheeler, Ph. D., Prof. of Greek, Univ. of Virginia, 1882-87.

1877

Francis Greenleaf Allinson, Ph. D., Prof. of Classical Philology, Brown Univ. —[1877-80].

Fabian Franklin, Ph. D., Assistant, Associate, Assoc. Prof., and Prof. of Mathematics, 1879-95; Editor of *The Baltimore News.*—[1877-79].

Lyman Beecher Hall, Ph. D., Prof. of Chemistry, Haverford Coll.—[1877-79].

Allan Marquand, Ph. D., L. H. D., Prof. of Archæology, etc., Princeton.—[1877-80].

Christian Sihler, Ph. D., M. D., Instructor and Acting Prof. of Histology, etc., Western Reserve Univ., 1889-94; Physician,, Cleveland, Ohio.—[1877-79].

1878

Maurice Bloomfield, Ph. D., LL. D., Prof. of Sanskrit and Comparative Philology.

Constantine Fahlberg, Ph. D., Chemist, Salbke-Westerhuesen, Germany.—[1878-80].

Edwin Herbert Hall, Ph. D., Prof. of Physics, Harvard Univ.—[1878-80].

Edward Coles Harding, A. M., Prof. of Greek, Univ. of Louisiana, 1879-80; Baltimore.

Rev. Charles Robert Hemphill, D. D., LL. D., Prof. of New Testament Exegesis, Louisville Presbyterian Theol. Sem.; Clergyman, Louisville, Ky.

Isaac Ott, A. M., M. D., Prof. of Physiology, Medico-Chirurgical Coll. of Phila.

Henry Sewall, Ph. D., M. D., Prof. of Physiology, Univ. of Denver.

Washington Irving Stringham, Ph. D., Prof. of Mathematics, Univ. of Cal.—[1878-80].

Charles Ambrose Van Velzer, S. B., Prof. of Mathematics, Univ. of Wisconsin.—[1878-81].

Abram Van Epps Young, Ph. B., Prof. of Chemistry, Northwestern Univ.—[1878-80].

1879

Brown Ayres, S. B., Prof. of Physics and Electricity, Tulane Univ.

Louis Bevier, Ph. D., Prof. of Greek, Rutgers Coll.—[1879-81].

William Burney, Ph. D., Prof. of Chemistry, South Carolina Coll.

Edward Mussey Hartwell, Ph. D., M. D., LL. D.; Secretary, Dept. of Municipal Statistics, Boston.—[1879-81].

*John Robin McDaniel Irby, Ph. D.

Mitsuru Kuhara, Ph. D., Prof. of Chemistry, Univ. of Kyoto, Japan.—[1879-81].

*Oscar Howard Mitchell, Ph. D., Prof. of Mathematics, Marietta Coll., 1882-89.—[1879-82].

Edward Leamington Nichols, Ph. D., Prof. of Physics, Cornell Univ.

George Frederick Nicolassen, Ph. D., Prof. of Greek and German, Southwestern Presbyterian Univ., Tenn.—[1879-81].

Waldo Selden Pratt, A. B., Mus. D., Prof. of Ecclesiastical Music and Hymnology, Hartford (Conn.) Theol. Sem.

Robert Woodworth Prentiss, M. S., Prof. of Mathematics, etc., Rutgers.—[1879-81].

William Thompson Sedgwick, Ph. D., Prof. of Biology, Mass. Inst. of Tech.; Lecturer, Simmons Coll.; Curator, Lowell Inst., Boston.

*Herman Voorhees, C. E. *Did not enter on the fellowship.*

Charles Otis Whitman, Sc. D., Ph. D., LL. D., Prof. of Zoology, Univ. of Chicago. *Did not enter on the fellowship.*

Edmund Beecher Wilson, Ph. D., LL. D., Prof. of Zoology, Columbia Univ.—[1879-81].

1880

James Wilson Bright, Ph. D., Prof. of English Philology.—[1880-82].

Benjamin Chapman Burt, A. B., Acting Prof. of Philosophy and Pedagogy, Univ. of Colorada, 1894-95.

Robert Dorsey Coale, Ph. D., Prof. of Chemistry, Med. Dept., Univ. of Md.

Lawrence Bunting Fletcher, Ph. D., Instructor in Physics, Wesleyan Univ., 1882-83.

*Spencer Hedden Freeman, A. B., Prof. of Physics and Astronomy, Adelbert Coll., 1882-86.—[1880-82].

Kakichi Mitsukuri, Ph. D., Prof. of Zoology, Univ. of Tokyo, Japan.

Bernard Francis O'Connor, Ph. D., Instructor and Adjunct Prof. of Romance Lang., Columbia Univ., 1883-91; New York.—[1880-82].

Chase Palmer, Ph. D., Prof. of Chemistry, Central Univ., Ky.—[1880-82].

Herbert Mills Perry, A. B., late Instructor, Cascadilla School, Ithaca.—[1880-82].

William Lee Rowland, S. B., Chemist, Philadelphia. *Did not enter on the fellowship.*

*Andreas Franz Wilhelm Schimper, Ph. D., Prof. of Botany, Univ. of Basle, 1898-1901.

Edward Henry Spieker, Ph. D., Assoc. Prof. of Greek and Latin.—[1880-82].

Morrison Isaac Swift, Ph. D., Instructor in Philosophy, Hobart Coll.. 1882-84.—[1880-82].

*Arthur Wilson Wheeler, A B.

1881

William John Alexander, Ph. D., Prof. of English, Univ. of Toronto.—[1881-83].

Edward Sanford Burgess, Ph. D., Prof. of Natural Science, Normal Coll., N. Y.

William James Comstock, Ph. D., Instructor in Organic Chemistry, Yale Univ.

William Cathcart Day, Ph. D., Prof. of Chemistry, Swarthmore, 1887-1901.—[1881-83].

Henry Herbert Donaldson, Ph. D., Prof. of Comparative Neurology, Univ. of Chicago.—[1881-83].

William Pitt Durfee, Ph. D., Prof. of Mathematics and Dean of the Faculty, Hobart Coll.—[1881-83].

George Stetson Ely, Ph. D., Examiner, U. S. Patent Office.—[1881-83]

Benjamin Ives Gilman, A. M., Curator, Museum of Fine Arts, Boston, Mass.

John Franklin Jameson, Ph. D., LL. D., Prof. of History, Univ. of Chicago.

Charles Herschel Koyl, A. B., Instructor in Physics, Swarthmore, 1887-88; New York.—[1881-83].

Henry Leslie Osborn, Ph. D., Prof. of Biology and Geology, Hamline Univ.

Henry Newlin Stokes, Ph. D., Asst. Prof. of Chemistry, Univ. of Chicago, 1892-94; U. S. Geological Survey, Washington.—[1881-83].

Benjamin Willis Wells, Ph. D., late Prof. of Modern Lang., Univ. of the South; Editor of *The Churchman*, N. Y. *Did not enter on the fellowship.*

1882

*Charles John Bell, A. B., Prof. of Chemistry, Medical Dept., Univ. of Minnesota, 1888-1903. *Did not enter on the fellowship.*

James McKean Cattell, Ph. D., Prof. of Psychology, Columbia Univ.; Editor of *Science.*

Ellery William Davis, Ph. D., Prof. of Mathematics, Univ. of Nebraska.—[1882-84].

David Talbot Day, Ph. D., U. S. Geological Survey, Washington, D. C.—[1882-84].

Alfred Emerson, Ph. D., Assoc. Prof. of Classical Archæology, Cornell Univ., 1891-97; Ithaca, N. Y.—[1882-84].

William Scott Fleming, A. B., Prof. of Greek, Davidson Coll., 1883-85; Wetumpka, Alabama.

Arthur Lincoln Frothingham, Jr., Ph. D., Prof. of Ancient History and Archæology, Princeton.—[1882-85].

Henry Root Goodnow, A. B., New York.

Elgin Ralston Lovell Gould, Ph. D., New York.—[1882-84].

Arthur Stafford Hathaway, S. B., Prof. of Mathematics, Rose Polytech. Inst.—[1882-84].

William Henry Howell, Ph. D., M. D., LL. D., Prof. of Physiology, and Dean of the Medical Faculty.—[1882-84].

Edward Harrison Keiser, Ph. D., Prof. of Chemistry, Washington Univ.—[1882-84].

Arthur Lalaune Kimball, Ph. D., Prof. of Physics, Amherst Coll.

Harry Fielding Reid, Ph. D., Prof. of Geological Physics. *Did not enter on the fellowship.*

1883

William Muss Arnolt, Ph. D., Instr. and Asst. Prof. of Biblical Philology, Univ. of Chicago, 1893-1903; Belmont, Mass.—[1883-85].

Gustav Bissing, Ph. D., Patent Attorney, Washington.

*Adam Todd Bruce, Ph. D., Instructor in Osteology, etc., 1886-87.

Archibald Lamont Daniels, D. Sc., Prof. of Mathematics and Physics, Univ. of Vermont.

John Dewey, Ph. D., Prof. of Philosophy, Univ. of Chicago.

*James Reynolds Duggan, Ph. D., Prof. of Chemistry, Wake Forest. 1886-88.

Hans Carl Guenther von Jagemann, Ph. D., Prof. of Germanic Philology, Harvard.

*Gustav Adolph Liebig, Jr., Ph. D., Assistant in Electricity, 1887-90.—[1883-85].

Charles William Emil Miller, Ph. D., Assoc. Prof. of Greek.—[1883-85].

Charles Albert Perkins, Ph. D., Prof. of Physics, Univ. of Tennessee.

*Louis Tebbetts Stevens, M. D., late Lecturer, Washington Univ.

Lewis Webb Wilhelm, Ph. D., Vice-Principal, College Prep. School, Baltimore.

1884

Ethan Allen Andrews, Ph. D., Assoc. Prof. of Biology.—[1884-86].

Henry Crew, Ph. D., Prof. of Physics, Northwestern Univ.—[1884-86].

Homer Winthrop Hillyer, Ph. D., Asst. Prof. of Organic Chemistry, Univ. of Wisconsin.

Rev. Abel Henry Huizinga, Ph. D., Adjunct Prof., McCormick Theol. Sem., 1894-96; Clergyman, Fishkill, N. Y.—[1884-86].

Frederick Schiller Lee, Ph. D., Adjunct Prof. of Physiology, Columbia Univ.

Charles Herbert Levermore, Ph. D., President of Adelphi College, Brooklyn.

Henry Francis Nachtrieb, S. B., Prof. of Animal Biology, Univ. of Minnesota.

Henry Barber Nixon, Ph. D., Prof. of Mathematics, Pennsylvania Coll.

William Noyes, Jr., M. D., Supt., Boston Insane Hospital, Mattapan, Mass.

Albert Gallatin Palmer, Ph. D., Asst. Prof. of Chemistry, Swarthmore Coll., 1886-87; Norwood, Md.

Ernest Mondell Pease, A. B., Prof. of Latin, Stanford Univ., 1891-1902; Washington.—[1884-86].

Albert Harris Tolman, Ph. D., Asst. Prof. of English Literature, Univ. of Chicago. *Did not enter on the fellowship.*

Woodrow Wilson, Ph. D., Litt. D., LL. D., President of Princeton University.

1885

Cyrus Adler, Ph. D., Librarian of the Smithsonian Institution; Prof. of Oriental History and Archæology, Columbian Univ.—[1885-87].

*David Barcroft, Ph. D.

William Shirley Bayley, Ph. D., Prof. of Mineralogy and Geology, Colby, 1888-1904; U. S. Geological Survey.—[March, 1885-June, 1886].

Louis Bell, Ph. D., Prof. of Physics, Purdue Univ., 1888-89; Electrical Engineer, Boston.—[1885-87].

William Henry Burnham, Ph. D., Asst. Prof. of Pedagogy, Clark Univ.

Francis Albert Christie, A. B., Prof. of Church History, Theol. School, Meadville, Pa.—[1885-87].

Davis Rich Dewey, Ph. D., Prof. of Economics and Statistics, Mass. Inst. of Tech.

Albert E. Egge, Ph. D., Prof. of English, Washington Agric. Coll.

William Henry Emerson, Ph. D., Prof. of Chemistry, Georgia School of Tech.

John Charles Fields, Ph. D., Lecturer in Mathematics, Toronto Univ.

Joseph Jastrow, Ph. D., Prof. of Experimental Psychology, Univ. of Wisconsin.

George Theophilus Kemp, Ph. D., M. D., Prof. of Physiology, Univ. of Illinois.

Marion Dexter Learned, Ph. D., Prof. of German, Univ. of Pennsylvania.

Gonzalez Lodge, Ph. D., Prof. of Greek and Latin, Teachers Coll., Columbia Univ.
Arthur MacDonald, A. B., Bureau of Education, Washington, D. C. *Did not enter on the fellowship.*
Charles Skeele Palmer, Ph. D., Pres., Colo. School of Mines, 1902-03; Anaconda, Mont.
George Thomas White Patrick, Ph. D., Prof. of Philosophy, Iowa State Univ. *Reappointed* 1887, *but resigned.*
Moses Stephen Slaughter, Ph. D., Prof. of Latin, Univ. of Wisconsin.
Charles Whetham, A. B., President of Whetham Coll., Vancouver, B. C., 1890-93.
Charles Baker Wright, A. B., President of English Literature and Rhetoric, Middlebury Coll. *Did not enter on the fellowship.*

1886

Edgar Pierce Allen, A. B., Prof., Law Dept., Univ. of Tientsin, China.—[1886-88].
John Pendleton Campbell, Ph. D., Prof. of Biology, Univ. of Georgia.
Henry Clarke, A. B., Classical Instructor, London, England.
Herbert Charles Elmer, Ph. D., Asst. Prof. of Latin, Cornell Univ.
Henry Brayton Gardner, Ph. D., Prof. of Political Economy, Brown Univ.
*Milton Haight, A. B., Prof. of Mathematics, etc., Sapporo Agric. Coll., Japan, 1887-92.
John Leslie Hall, Ph. D., Prof. of English and History, William and Mary Coll.
Charles Williard Hayes, Ph. D., U. S. Geological Survey, Washington; Lecturer, 1903-04.
George Benjamin Hussey, Ph. D., Prof. of Greek and Latin, Western Maryland Coll.
James Hervey Hyslop, Ph. D., Prof. of Logic and Ethics, Columbia Univ., 1895-1902.
Andrew Cowper Lawson, Ph. D., Prof. of Geology, Univ. of California.
Franklin Paine Mall, M. D., Prof. of Anatomy.—[1886-88].
Yujiro Motora, Ph. D., Prof. of Psychology, etc., Univ. of Tokyo, Japan.
Julius Nelson, Ph. D., Prof. of Biology, Rutgers Coll.
William Ridgely Orndorff, Ph. D., Prof. of Organic Chemistry, Cornell.
Daniel Richard Randall, Ph. D., Attorney at Law, Annapolis, Md.
Henry Dallas Thompson, D. Sc., Ph. D., Prof. of Mathematics, Princeton.
Edward Burr Van Vleck, Ph. D., Prof. of Mathematics, Wesleyan Univ.
*Amos Griswold Warner, Ph. D., Prof. of Economics, Stanford Univ., 1893-1900.
John Roaf Wightman, Ph. D., Prof. of Romance Lang., Oberlin Coll.

1887

Joseph Sweetman Ames, Ph. D., Prof. of Physics.
Philip Wheelock Ayres, Ph. D., Director, Summer School, Charity Organization Soc., N. Y.
William Snyder Eichelberger, Ph. D., Prof. of Mathematics, U. S. Navy, Washington.
Henry Rushton Fairclough, Ph. D., Assoc. Prof. of Greek and Latin, Stanford Univ. *Did not enter on the fellowship.*
*William Curns Lawrence Gorton, Ph. D., Assoc. Prof. and Prof. of Mathematics and Astronomy, Woman's Coll., Balt., 1888-94.
William Herbert Hobbs, Ph. D., Prof. of Mineralogy, etc., Univ. of Wisconsin.
Joseph Hoeing Kastle, Ph. D., Prof. of Chemistry, Kentucky State Coll.
Felix Lengfeld, Ph. D., late Asst. Prof., Univ. of Chicago; Chemist, San Francisco.
Archibald MacMechan, Ph. D., Prof. of English, Dalhousie Univ.
Herbert William Magoun, Ph. D., Prof. of Latin, Redfield College, S. Dak.
*Thomas McCabe, Ph. D., Assoc. in Romance Lang., Bryn Mawr, 1890-91.
John Leverett Moore, Ph. D., Prof. of Greek and Latin, Vassar Coll.
Augustus Taber Murray, Ph. D., Prof. of Greek, Stanford Univ.
Edmund Clark Sanford, Ph. D., Prof. of Experimental Psychology, Clark Univ.

Charles Lee Smith, Ph. D., Prof. of History, William Jewell Coll., Mo.
Arthur Clarence Wightman, Ph. D., Prof. of Biology and Physics, Randolph-Macon Coll.
Henry Van Peters Wilson, Ph. D., Bruce Fellow, 1888-89; Prof. of Biology, Univ. of North Carolina.

1888

Charles McLean Andrews, Ph. D., Prof. of History, Bryn Mawr.
Frank Wilson Blackmar, Ph. D., Prof. of History and Sociology, Univ. of Kansas.
Charles Augustus Borst, A. B., Assistant in Astronomy, 1889-92.
William Merriam Burton, Ph. D., Superintendent, Standard Oil Co., Whiting, Ind.
Morgan Callaway, Jr., Ph. D., Prof. of English Philology, Univ. of Texas.
Charles Hiram Chapman, Ph. D., Pres., Univ. of Oregon, 1893-99; Woodland, Wash.
Edwin Whitfield Fay, Ph. D., Prof. of Latin and Greek, Univ. of Texas.—[1888-90].
Adam Capen Gill, Ph. D., Asst. Prof. of Mineralogy, Cornell Univ.
Joseph Edward Harry, Ph. D., Prof. of Greek, Univ. of Cincinnati.
James Taft Hatfield, Ph. D., Prof. of German, Northwestern Univ.
*George Allison Hench, Ph. D., Prof. of German, Univ. of Michigan, 1895-99.
Clifton Fremont Hodge, Ph. D., Asst. Prof. of Physiology, Clark Univ.
Cary Talcott Hutchinson, Ph. D., Acting Assoc. Prof. of Electricity, 1898-99; Consulting Engineer, N. Y.
Alvin Frank Linn, Ph. D., Prof. of Chemistry and Mineralogy, Wittenberg Coll., O. *Did not enter on the fellowship.*
Thomas Logie, Ph. D., Prof. of Romance Lang., Univ. of Cape Town, S. Africa.
Alfred Edward Thayer, M. D., Instructor in Pathology and Bacteriology, Cornell Univ.
*James Starr Trueman, A. B., Prof. of Greek and Latin, Allegheny Coll., 1889-92.
Shozaburo Watase, Ph. D., Bruce Fellow, 1889-90; Prof. of Zoology, Univ. of Tokyo.

1889

Rev. Edward Carey Applegarth, Ph. D., M. D., Clergyman, Boston, Mass.
Arthur George Blachstein, A. B., M. D., St. Petersburg, Russia.
Rudolf John Julius de Roode, Jr., Ph. D., Analytical Chemist, New York.
George Peter Dreyer, Ph. D., Prof. of Physiology, Med. Dept., Univ. of Ill.
Herman Louis Ebeling, Ph. D., Asst. Prof. of Greek, Hamilton Coll.
Charles Jaques Goodwin, Ph. D., Prof. of Greek, Lehigh Univ.
Christopher Johnston, Jr., Ph. D., Assoc. Prof. of Oriental History, etc.—[1889-91].
Hiram Benjamin Loomis, Ph. D., Western Springs, Ill.
John Hanson Thomas McPherson, Ph. D., Prof. of History, Univ. of Georgia.
Thomas Hunt Morgan, Ph. D., Bruce Fellow, 1890; Prof. of Biology, Bryn Mawr.
Daniel Alexander Murray, Ph. D., Instructor in Mathematics, Dalhousie Univ.
Charles Lane Poor, Ph. D., Prof. (*elect*) of Astronomy, Columbia Univ.
*George Mann Richardson, Ph. D., Prof. of Organic Chemistry, Stanford Univ., 1891-02.
John Cunningham Robertson, Ph. D., Prof. of Greek, St. Stephen's Coll., N. Y.
*Charles Hunter Ross, Ph. D., Prof. of Modern Lang., Alabama Polytech. Inst., 1892-1900.
Joseph Samuel Shefloe, Ph. D., Prof. of Romance Lang. and Librarian, Woman's Coll., Baltimore.
Robert Benson Steele, Ph. D., Adjunct Prof. of Latin, Vanderbilt Univ.
Bert John Vos, Ph. D., Assoc. Prof. of German.—[1889-91].
James Albert Woodburn, Ph. D., Prof. of American History, Indiana Univ.

1890

William Wilson Baden, Ph. D., Prof. of Latin, Univ. of Idaho.—[1890-92].
Robert Payne Bigelow, Ph. D., Bruce Fellow, 1891-93; Instructor in Biology and Librarian, Mass. Inst. of Tech.
Edwin Grant Conklin, Ph. D., Prof. of Zoology, Univ. of Pa.
Rev. William Levering Devries, S. T. B., Ph. D., Clergyman, Washington, D. C.
George Houghton Gilman, A. B., LL. B., Atty. at Law, New York. *Did not enter on the fellowship.*
Thomas Perrin Harrison, Ph. D., Prof. of English, Davidson Coll.
Charles Rollin Keyes, Ph. D., President, New Mexico School of Mines.
Edwin Seelye Lewis, Ph. D., Prof. of Romance Lang., Princeton.
Arthur Stanley Mackenzie, Ph. D., Prof. of Physics, Bryn Mawr.
Henry Parker Manning, Ph. D., Asst. Prof. of Mathematics, Brown Univ.
Wilfred Pirt Mustard, Ph. D., Prof. of Latin, Haverford Coll.
Barker Newhall, Ph. D., Prof. of Greek, Kenyon Coll.
Edward Bennett Rosa, Ph. D., Prof. of Physics, Wesleyan Univ.; Physicist, Bureau of Standards, Washington.
Charles Edward Saunders, Ph. D., Prof. of Chemistry, Central Univ., Ky., 1891-93; Ottawa, Canada.
Bernard Christian Steiner, LL. B., Ph. D., Librarian, Pratt Library; Dean and Prof., Balt. Law School; Associate in History.
John White, Jr., Ph. D., Prof. of Chemistry, Rose Polytechnic Inst.
Westel Woodbury Willoughby, Ph. D., Assoc. Prof. of Political Science.

1891

Edward Ambrose Bechtel, Ph. D., Instr. in Latin, Univ. of Chicago. *Did not enter on the fellowship.*
Julius Blume, Modern Lang. Master, University School, Baltimore, 1892-99; Germany.
Albert Bernhardt Faust, Ph. D., Asst. Prof. of German, Univ. of Wisconsin.
Simon Flexner, M. D., Director, Rockefeller Inst. for Medical Research, N. Y.
Ulysses Sherman Grant, Ph. D., Prof. of Geology, Northwestern Univ.
William Asbury Harris, Ph. D., Prof. of Greek, Richmond Coll., Va.
Harry Clary Jones, Ph. D., Assoc. Prof. of Physical Chemistry.
James Lawrence Kellogg, Ph. D., Asst. Prof. of Biology, Williams Coll.
Elmer Peter Kohler, Ph. D., Prof. of Chemistry, Bryn Mawr.
*Paul Erasmus Lauer, Ph. D., Asst. Supt. of Schools, Cleveland, O., 1892-93.
David Judson Lingle, Ph. D., Instructor in Physiology, Univ. of Chicago.
John Hanson Thomas Main, Ph. D., Prof. of Greek, Iowa Coll.
Frank Jewett Mather, Jr., Ph. D., late Instructor in English, Williams Coll.; Asst. Editor, *The Evening Post*, N. Y.
Michael Andrew Mikkelsen, Ph. D., Montclair, N. J.
John Dyneley Prince, Ph. D., Prof. of Semitic Lang., Columbia.
Brantz Mayer Roszel, Ph. D., Head Master, Sewanee Grammar School, Tenn.
George Owen Squier, Ph. D., Colonel, U. S. Vol.; U. S. Signal Service.
Sidney Grant Stacey, Ph. D., Instructor in Latin, Brooklyn High School.
Joseph Moody Willard, A. B., Prof. of Mathematics, Pennsylvania State Coll.

1892

Burleigh Smart Annis, A. B., Instructor in Mathematics, High School, Hartford, Conn.
Lewellys Franklin Barker, M. B., Prof. of Anatomy, Univ. of Chicago.
Melvin Brandow, A. B., Assistant Librarian, 1894-1903; Student, Meadville (Pa.) Theol. Sem.
Alexander Mitchell Carroll, Ph. D., Prof. of Greek and Latin, Columbian Univ.

Harry Max Ferren, A. B., Instructor in German, Allegheny (Pa.) High School.
David Hull Holmes, Ph. D., Classical Instructor, High School, Brooklyn.
Arthur John Hopkins, Ph. D., Asst. Prof. of Chemistry, Amherst Coll.
Theodore Hough, Ph. D., Assoc. Prof. of Biology, Simmons Coll., Boston.
James Alton James, Ph. D., Prof. of European History, Northwestern Univ.
Francis Plaisted King, Ph. D., Asst. Geologist of Georgia, 1893-96.
Emory Bair Lease, Ph. D., Instructor in Latin, College of the City of New York.
*Edward Payson Manning, Ph. D., Instructor, St. Lawrence Univ., 1894-95.
*Louis Emil Menger, Ph. D., Prof. of Romance Philology, Bryn Mawr, 1900-03.
*Lucius Salisbury Merriam, Ph. D., Instructor in Political Economy, Cornell, 1893-94.
Mayo Maynard Metcalf, Ph. D., Bruce Fellow, 1893; Prof. of Biology, Woman's Coll., Baltimore.
*Rene de Poyen-Bellisle, Ph. D., Instructor in Romance Philol., Chicago, 1894-1900.
Arthur Percy Saunders, Ph. D., Instructor in Chemistry, Hamilton College.
Rev. Daniel Gurden Stevens, Jr., Ph. D., Clergyman, Bryn Mawr, Pa.—[1892-94].
Frederick Tupper, Jr., Ph. D., Prof. of Rhetoric and English Lit., Univ. of Vermont.
Frank Alfred Wolff, Jr., Ph. D., Prof. of Physics, etc., Columbian Univ.; Physicist, Bureau of Standards, Washington.

1893

Thomas Stockham Baker, Ph. D., Prof. of Mod. Lang., Tome Inst.; Lecturer in German.
John Spencer Bassett, Ph. D., Prof. of History, Trinity Coll., N. C.
George Melville Bolling, Ph. D., Assoc. Prof. of Greek, Catholic Univ.
Abraham Cohen, Ph. D., Associate in Mathematics.
Ervin Sidney Ferry, S. B., Prof. of Physics, Purdue Univ.
William Francis Gallaway, Ph. D., Classical Instructor, Savannah, Ga.
Ross Granville Harrison, Ph. D., M. D., Bruce Fellow, 1894; Assoc. Prof. of Anatomy.
Bert Holmes Hite, M. S., Prof. of Agric. Chemistry, West Va. Univ.—[1893-95].
Samuel Verplanck Hoffman, M. E., Morristown, N. J.
Jacob H. Hollander, Ph. D., Assoc. Prof. of Polit. Economy.
Charles William Leverett Johnson, Ph. D., Instructor in Latin, Princeton, 1900-03.
George Wesley Johnston, Ph. D., Lecturer in Latin, Univ. of Toronto.
George Charles Keidel, Ph. D., Associate in Romance Languages.—[1893-95].
Edward Bennett Mathews, Ph. D., Assoc. Prof. of Mineralogy.
Edwin Fitch Northrup, Ph. D., Assoc. Prof. of Physics, Univ. of Texas, 1896-97; Philadelphia.—[1893-95].
*Alfred William Stratton, Ph. D., Registrar, Univ. of the Punjab, and Prof. of Sanskrit, Oriental Coll., Lahore, India, 1899-02.
Frederick Henry Sykes, Ph. D., Prof. of English Lit., and Director, Extension Dept., Teachers Coll., Columbia Univ.
George Francis Weida, Ph. D., Prof. of Chemistry, Ripon Coll., Wis.

1894

Arthur Fisher Bentley, Ph. D., Chicago.
Samuel Walker Beyer, Ph. D., Assoc. Prof. of Geology, Iowa Agric. Coll.
Clarence Griffin Child, Ph. D., Asst. Editor, Worcester's Dictionary; Asst. Prof. of English, Univ. of Pa.
Frank Hollinger Clutz, Ph. D., Kansas City, Mo.—[1894-96].
Fonger DeHaan, Ph. D., Assoc. Prof. of Spanish, Bryn Mawr. *Did not enter on the fellowship.*
Henry Stewart Gane, Ph. D., U. S. Geological Survey, Washington.

William August Haussman, Ph. D., Instructor in German, Central High School, Philadelphia.
Reid Hunt, Ph. D., M. D., Pharmacologist, Bureau of Public Health, Washington. [1894-96].
Thomas Franklin Kane, Ph. D., Pres. and Prof. of Latin, Univ. of Washington.
William Hamilton Kirk, Ph. D., Prof. of Latin, Rutgers Coll.
Henry McElderry Knower, Ph. D., Bruce Fellow, 1895-96; Instructor in Anatomy.
George Lefevre, Ph. D., Bruce Fellow, 1895-97; Prof. of Zoology, Univ. of Missouri.
Caspar Levias, A. B., Prof. of Exegesis and Hebrew Grammar, Hebrew Union Coll., Cincinnati. *Reappointed* 1895, *but resigned.*
William Henry Maltbie, Ph. D., Prof. of Mathematics, Woman's Coll., Baltimore.
Thomas Francis Moran, Ph. D., Prof. of History and Economics, Purdue Univ.
Louis Trenchard More, Ph. D., Prof. of Physics, Univ. of Cincinnati.
James Flack Norris, Ph. D., Asst. Prof. of Chemistry, Mass. Inst. of Tech.
Herbert Dodge Pease, M. B., Albany, N. Y.; Lecturer, Albany Med. School.

1895

Norman Ross Carmichael, A. M., Assoc. Prof. of Physics, School of Mining, Kingston, Canada.
Arthur Douglas Chambers, Ph. D., Chemist, Ashburn, Mo.
*Franklin Story Conant, Ph. D., Bruce Fellow, 1897.
Rev. Eneas Bernard Goodwin, A. B., Prof. of Greek, St. Cyril's Coll., Chicago.
William Jackson Humphreys, Ph. D., Instructor in Physics, University of Va.
Oliver Martin Johnston, Ph. D., Asst. Prof. of Romanic Lang., Stanford Univ.
Gordon Jennings Laing, Ph. D., Asst. Prof. of Latin, Univ. of Chicago.
*Louis Eugene Livingood, M. D., Assistant in Pathology, 1896-98, and Associate 1898.
Ebenezer Mackay, Ph. D., Prof. of Chemistry and Mineralogy, Dalhousie Univ.
John McLaren McBryde, Jr., Ph. D., late Prof. of English, Hollins Inst., Va.; Student in England.
Henry Ludwell Moore, Ph. D., Adjunct Prof. of Economics, Columbia.
Charles William Peppler, Ph. D., Prof. of Greek, Emory Coll., Ga.
Franklin Lafayette Riley, Ph. D., Prof. of History, Univ. of Miss.
Frederick George Gottlob Schmidt, Ph. D., Prof. of Modern Lang., Univ. of Oregon.
John Adams Scott, Ph. D., Asst. Prof. of Greek, Northwestern Univ.
George Otis Smith, Ph. D., U. S. Geological Survey, Washington.
M. Victor Staley, Ph. D., Prof. in the Univ. of Washington.
Thomas Hardy Taliaferro, Ph. D., President, Florida Agric. Coll.
Harry Langford Wilson, Ph. D., Assoc. Prof. of Latin. *Did not enter on the fellowship.*

1896

Edward Cooke Armstrong, Ph. D., Associate Prof. of French.
James Morton Callahan, Ph. D., Assoc. Prof. of European Hist., West Va. Univ.
Edward Perkins Carter, M. D., Physician, Cleveland, Ohio.
Hubert Lyman Clark, Ph. D., Prof. of Biology, Olivet Coll.
Noah Ernest Dorsey, Ph. D., Physicist, Bureau of Standards, Washington.
Pelham Edgar, Ph. D., Prof. of Modern Lang., Victoria Univ., Ont.
Edwin Luther Green, Ph. D., Adjunct Prof. of Ancient Lang., S. Carolina Coll.
Arthur Sewall Haggett, Ph. D., Prof. of Greek, Univ. of Washington.
William Edwards Henderson, Ph. D., Asst. Prof. of Anal. Chemistry, Ohio State University.
Charles Hoeing, Ph. D., Instructor in Latin and Librarian, Univ. of Rochester.—[1896-98].
Duncan Starr Johnson, Ph. D., Bruce Fellow, 1897-98; Associate Prof. of Botany.
Rev. Paul Henry Land, A. B., Clergyman, Lima, Ohio.

Omera Floyd Long, Ph. D., Asst. Prof. of Latin, Northwestern Univ.
William Tyler Mather, Ph. D., Assoc. Prof. of Physics, Univ. of Texas.
John Frederick Mohler, Ph. D., Prof. of Physics, Dickinson Coll. *Did not enter on the fellowship.*
Jens Anderson Ness, Ph. D., Associate in Sanskrit, Univ. of Chicago, 1900; Baltimore.—[1896-98].
Alexander Pell, Ph. D., Prof. of Mathematics, Univ. of South Dakota.
Cornelius William Prettyman, Ph. D., Prof. of German, Dickinson Coll.
*Charles Dabney Ragland, Ph. D., Prof. of Chemistry, Randolph-Macon Coll., 1896-1900.
Frank Roy Rutter, Ph. D., Dept. of Agriculture, Washington; Lecturer on Commerce, etc., Iowa Univ., 1903-04.
George Burbank Shattuck, Ph. D., Assoc. Prof. of Physiographic Geology.

1897

Cleveland Abbe, Jr., Ph. D., U. S. Weather Bureau, Washington.
Charles Hillman Brough, Ph. D., LL. B., Prof. of Philosophy, History, etc., Hillman Coll., Miss.
Pierce Butler, Ph. D., Prof. of History, Tulane Univ.—[1897-99].
Killis Campbell, Ph. D., Instructor in English, Univ. of Texas.
Gilman Arthur Drew, Ph. D., Bruce Fellow, 1898; Prof. of Biology, Univ. of Maine.
Charles Wilson Greene, Ph. D., Prof. of Physiology, Univ. of Missouri.
Karl Joseph Grimm, Ph. D., Rayner Fellow, 1899-01; Prof. of German, French, and Hebrew, Ursinus Coll.—[1897-99].
James Graham Hardy, Ph. D., Asst. Prof. of Mathematics, Williams Coll.
William App Jones, Ph. D., Analytical Chemist, New York.
William Kurrelmeyer, Ph. D., Instructor in German.—[1897-99].
Guy Carleton Lee, Ph. D., Instructor in History.
Charles Elwood Mendenhall, Ph. D., Asst. Prof. of Physics, Univ. of Wisconsin.
Samuel Alfred Mitchell, Ph. D., Tutor in Astronomy, Columbia.
Joseph Longworth Nichols, A. B., M. D.
William Albert Nitze, Ph. D., Prof. of Romance Lang., Amherst.
Daniel Allen Penick, Ph. D., Asst. Prof. of Greek and Latin, Univ. of Texas.
Ebenezer Emmet Reid, Ph. D., Prof. of Chemistry and Physics, Baylor Univ.
William Berney Saffold, Ph. D., Prof. of Latin, Univ. of Alabama. *Did not enter on the fellowship.*
Henry Nevill Sanders, Ph. D., Assoc. Prof. of Greek, Bryn Mawr.
Charles William Waidner, Ph. D., Physicist, Bureau of Standards, Washington.

1898

Thomas Sewell Adams, Ph. D., Asst. Prof. of Economics, Univ. of Wisconsin.
John William Basore, Ph. D., Instructor in Latin, Univ. of California.
Frank Ringgold Blake, Ph. D., Instructor in Oriental Lang.—[1898-1902].
Joseph Scudder Chamberlain, Ph. D., Chemist, Dept. of Agriculture, Washington.
Percy Millard Dawson, A. B., M. D., Associate in Physiology.
George Stronach Fraps, Ph. D., Asst. in Chemistry, Experiment Station of Texas.
Pierre Joseph Frein, Ph. D., Instructor in Romanic Lang., Univ. of Washington.
Leonidas Chalmers Glenn, Ph. D., Adjunct Prof. of Geology, Vanderbilt Univ.
Caswell Grave, Ph. D., Bruce Fellow, 1900-01; Associate in Zoology.
Hollister Adelbert Hamilton, Ph. D., Prof. of Greek, Elmira Coll.
George Oscar James, Ph. D., Instructor in Mathematics, Washington Univ., St. Louis.
Joseph Francis Merrill, Ph. D., Prof. of Physics, Univ. of Utah.
Alfred William Milden, Ph. D., Prof. of Classics, Emory and Henry Coll.

Eugene Lindsay Opie, A. B., M. D., Associate in Pathology.
Frederick Albert Saunders, Ph. D., Asst. Prof. of Physics, Syracuse Univ.
Laurence Frederick Schmeckebier, Ph. D., U. S. Geological Survey, Washington.
Henry Skinner West, Ph. D., Principal, Western High School, Balt.

1899

George Ernest Barnett, Ph. D., Instructor in Economics. *Reappointed* 1900, *but resigned.*
William Martin Blanchard, Ph. D., Asst. Prof. of Chemistry, De Pauw Univ.
Charles Edward Caspari, Ph. D., Prof. of Chemistry, St. Louis Coll. of Pharmacy. *Did not enter on the fellowship.*
Luther Pfahler Eisenhart, Ph. D., Instructor in Mathematics, Princeton.
Herbert Baldwin Foster, Ph. D., Prof. of Greek, Univ. of S. Dakota.
William Linwood Foushee, Ph. D., Prof. of Latin, Richmond Coll.
Clyde Chew Glascock, Ph. D., Instructor in German, Yale.
Lawrence Edmonds Griffin, Ph. D., Bruce Fellow, 1900; Prof. of Biology, Missouri Valley Coll.
Sivert N. Hagen, Ph. D., Instructor in English, Iowa State Univ.
Joseph Cawdell Herrick, Ph. D., Instructor in Sciences, St. Joseph's Sem., Yonkers, N. Y.
*Julian Huguenin, Ph. D., Acting Prof. of English, Univ. of Louisiana, 1900-01.
Walter Hullihen, Ph. D., Classical Master, Univ. School, Baltimore.
Charles August Kraus, S. B., Instructor in Physics, Univ. of Kansas.
Harry Taylor Marshall, A. B., M. D., Asst. in Pathology and Instr. in Medicine.
John Charles Olsen, Ph. D., Asst. Prof. of Chemistry, Brooklyn Polytechnic Inst.
Herbert Meredith Reese, Ph. D., Assistant, Yerkes Observatory.
George Burr Richardson, Ph. D., U. S. Geological Survey, Washington.
*Richard Burton Rowe, Ph. D., Asst. U. S. Geological Survey, 1900-02.
James Eustace Shaw, Ph. D., Associate in Italian.
Charles Clinton Weaver, Ph. D., Prof. of Hist., Davenport Coll., N. C.

1900

Herbert Thompson Archibald, Ph. D., Prof. of Greek, Occidental Coll., Cal.
George Dobbin Brown, Ph. D., Instr. in English, Baltimore.
Benjamin Palmer Caldwell, Ph. D., Asst. Prof. of Chemistry, Tulane Univ.
Howard Vernon Canter, A. B., Graduate Student. *Did not enter on the fellowship.*
Winterton Conway Curtis, Ph. D., Instructor in Biology, Univ. of Missouri.
Waverly Bayard Daniel, Ph. D., Prof. of Latin, Baylor Univ., Texas.
Joseph Erlanger, M. D., Instructor in Physiology. *Did not enter on the fellowship.*
Arthur Henry Ewing, Ph. D., Prof., Christian Coll., Allahabad, India.
Joseph Christie Whitney Frazer, Ph. D., Carnegie Research Asst. in Chemistry; Fellow by Courtesy.
Norman Everett Gilbert, Ph. D., Asst. Prof. of Physics, Dartmouth Coll.
Roscoe Guernsey, Ph. D., Tutor in Greek, Columbia. *Reappointed* 1901, *but resigned.*
Fred Cole Hicks, Ph. D., Instructor in German, Monmouth Coll., Ill.
George Curtis Martin, Ph. D., Instructor in Paleontology.
William Elejius Martin, Ph. D., Prof. of History, Emory and Henry Coll., Va.
Charles Alfred Mosemiller, A. B., Asst. Prof. of Romance Lang., Indiana Univ.
Roland Jessup Mulford, Ph. D., Head Master, Cheshire School, Conn.
Louis Alexander Parsons, Ph. D., Instr. in Physics, Univ. of Utah.—[1900-02].
Israel Euclid Rabinovitch, Ph. D., New York City.
Charles Sidney Smith, A. M., Asst. Prof. of Greek and Latin, Columbian Univ. *Did not enter on the fellowship.*

Percy Goldthwait Stiles, Ph. D., Instructor in Physiology, New York Univ. *Did not enter on the fellowship.*
Gordon Wilson, M. D., Physician, Baltimore.

1901

Francis Marion Austin, A. B., Prof. of Latin, Ill. Wesleyan Univ.. *Did not enter on the fellowship.*
LeRoy Carr Barret, Ph. D., Instr. in Latin.—[1901-03].
George Olaf Berg, Ph. D., Acting Prof. of Greek, St. Olaf Coll., Minn. [1901-03].
Arthur Byron Coble, Ph. D., Carnegie Research Asst. in Mathematics; Fellow by Courtesy.
Rheinart Parker Cowles, Ph. D., Bruce Fellow in Biology.
Albert Eugene Curdy, Ph. D., Instructor in French, Yale.
Philip Howard Edwards, Ph. D., Latin Master, Friends' School, Balt.—[1901-03].
James Warner Harry, Ph. D., Baltimore.
Edward Pechin Hyde, A. B., Asst., Bureau of Standards, Washington; Fellow by Courtesy.
Herman Kurrelmeyer, Ph. D., Instructor in German, Mass. Inst. of Technology.
Charles Fowler Lindsay, Ph. D., Research Chemist, Gen. Electric Co., Schenectady.
Robert Edward Loving, A. B., Graduate Student. *Did not enter on the fellowship.*
Louis Wardlaw Miles, Ph. D., German Master, Country School for Boys, Balt.
Benjamin Leroy Miller, Ph. D., Assoc. in Geology, Bryn Mawr.
Gabriel Oussani, A. B., S. T. B., Rayner Fellow, 1903; Prof. of Italian, Latin, and Oriental Lang., Catholic Seminary, N. Y.—[1901-03].
Charles Oscar Paullin, S. B. *Did not enter on the fellowship.*
George Ragland, A. B., Prof. of Greek, Baylor Univ., Texas. *Did not enter on the fellowship.*
Lee Raney, A. B., Asst. Librarian.—[1901-03].
Dorothy M. Reed, M. D., Resident Physician, Babies' Hospital, New York.
Daniel Naylor Shoemaker, Ph. D., Science Instructor, Hartsville Seminary, S. C.
William Stone Weedon, Ph. D., Research Chemist, Gen. Electric Co., Schenectady.

1902

Elbert Jay Benton, Ph. D., Instr. in History, Western Reserve Univ.
Charles Keyser Edmunds, Ph. D., Prof. of Physics, Christian Coll., Lemacao, China.
Frederick Hutton Getman, Ph. D., Carnegie Research Asst. in Chemistry.
Yukimasa Hattori, Ph. D.
John Gale Hun, Ph. D., Instr. in Mathematics, Princeton.
Albert Johannsen, Ph. D., U. S. Geological Survey, Washington.
Alfred Allan Kern, A. M., Fellow by Courtesy.
Ernest Gale Martin, Ph. D., Asst. in Physiology.
Alfred James Morrison, Ph. D., Brooklyn, N. Y.
Walter Thomson Pierce, A. B., Instr. in Romance Lang., Indiana Univ.
Robert Bruce Roulston, A. B., Fellow by Courtesy.
John Philip Schneider, Ph. D., Fellow by Courtesy.
Arthur Whitmore Smith, Ph. D., Asst. in Physics, Univ. of Mich.
David Hilt Tennent, S. B., Fellow in Zoology.—[1902-04].
Roy McLean Van Wart, A. B., M. D. C. M.
Kisaburo Yamaguchi, Ph. D., Chemist, Furukawa Central Office of Mines, Tokyo.

The list of the present holders of fellowships is given on page 19.
The whole number appointed in twenty-seven years is 480.

8. Doctors of Philosophy, 1878-1903.

When the institution is not named, this university is to be understood. (F) indicates that the person has held a fellowship here. *—Died.

1878

Henry Carter Adams, (F), A. B., Iowa, 1874; Instr., 1879-81, Lecturer, 1892-94; Lecturer and Assoc. Prof., Cornell, 1879-87.—Prof., Pol. Econ., Univ. of Mich.; Statistician, Interstate Commerce Commission.

*Thomas Craig, (F), C. E., Lafayette, 1875; U. S. Coast Survey, 1879-81; Instr., Assoc., Assoc. Prof., Prof., Math., 1879-1900; Editor, *American Journal of Mathematics*, 1894-1899. **May* 8, 1900.

Josiah Royce, (F), California (A. B., 1875, Asst. Prof., 1878-82); LL. D., 1902.—Prof., Hist. of Philos., Harvard.

Ernest Gottlieb Sihler, (F), Concordia (Ind.), 1869; Prof., Concordia (Milwaukee), 1891-92.—Prof., Latin, N. Y. Univ. (4)

1879

Maurice Bloomfield, (F), A. M., Furman, 1877; LL. D., Princeton, 1896. —Prof., Sanskrit and Compar. Philol.

Samuel Fessenden Clarke, (F), Ph. B., Yale, 1878; Asst., 1879-81.—Prof., Natural Hist., Williams Coll.

George Bruce Halsted, (F), Princeton (A. B., 1875, Tutor and Instr., 1878-84); Prof., Univ. of Texas, 1884-1903, St. Johns, Md., 1903.—Prof., Math., Kenyon Coll., Gambier, O.

Edward Hart, (F), S. B., Lafayette, 1874.—Prof. of Anal. Chem., Lafayette Coll.

William White Jacques, (F), Mass. Inst. Tech. (S. B., 1876, Lecturer, 1885-91).—Elec. Engineer, Boston.

Henry Sewall, (F), S. B., Wesleyan, 1876; Assoc. 1880-82; Mich. (Hon. M. D., 1888, Prof., 1882-89); M. D., Univ. of Colo., 1889.—Prof., Physiol., Univ. of Denver. (6)

1880

Francis Greenleaf Allinson, (F), Haverford (A. B., 1876, Asst., Prof., 1880-82); A. B., Harvard, 1877; Assoc. Prof., Williams, 1892-95.—Prof., Class. Philol., Brown Univ.

Fabian Franklin, (F), Ph. B., Columbian, 1869; Asst., Assoc., Assoc. Prof., Prof., Math., 1879-95.—Editor, *Baltimore News*.

Edwin Herbert Hall, (F), A. B., Bowdoin, 1875; Asst., 1880-81.—Prof., Physics, Harvard.

Allan Marquand, (F), A. B., Princeton, 1874; L. H. D., Hobart, 1888.—Prof., Archæol., etc., Princeton.

Washington Irving Stringham, (F), A. B., Harvard, 1877.—Prof., Math., Univ. of Cal. (5)

1881

Louis Bevier, (F), A. B., Rutgers, 1878.—Prof., Greek, Rutgers.

Robert Dorsey Coale, (F), Asst., 1881-83.—Prof. Chem., and Dean of Med. Faculty, Univ. of Md.

Edward Allen Fay, A. B., Mich., 1862. —Vice-Pres. and Prof., Lang., Gallaudet Coll., D. C.

Lawrence Bunting Fletcher, (F), A. B., Columbia, 1877; Instr., Physics, Wesleyan, 1882-83.

Samuel Garner, A. B., St. John's, 1871; Prof., Mod. Lang., Univ. of Ind., 1881-87, U. S. Naval Acad., 1887-99.—Annapolis.

Edward Mussey Hartwell, (F), Amherst (A. B., 1873, LL. D., 1898); M. D., Miami Med. Coll., 1882; Instr. and Assoc., 1883-91; Director, Phys. Train., Boston Schools, 1891-97.—Sec., Dept. of Munic. Statistics, Boston.

William Thompson Sedgwick, (F), Ph. B., Yale, 1877; Asst. and Assoc., 1880-83.—Prof., Biol., Mass. Inst. Tech.; Curator, Lowell Inst., Boston; Lecturer, Simmons Coll.

Christian Sihler, (F), Concordia (Ind.), 1866; M. D., Mich., 1871; Asst., 1879-80; Instr., and Acting Prof., Western Reserve, 1888-94.—Physician, Cleveland, O.

Edmund Beecher Wilson, (F), Ph. B., Yale, 1878; Asst., 1881-82. LL. D., 1902; Lecturer, Williams, 1883-84; Assoc. Prof. and Prof., Bryn Mawr, 1885-91.—Prof., Zool., Columbia. (9)

1882

James Wilson Bright, (F), A. B., Lafayette, 1877; Instr., Cornell, 1885. —Prof., English Philol.; Assoc. Ed., *Modern Language Notes.*

John Franklin Jameson, (F), Amherst (A. B., 1879, LL. D., 1898); LL. D., 1902, Asst. and Assoc., 1882-88, Lecturer, 1890-91; Prof., Brown, 1888-1901.—Prof., Hist. Univ. of Chicago.

Mitsuru Kuhara, (F), Tokyo (S. B., 1877, Lecturer, 1882-87).—Prof., Chem., Univ. of Kyoto.

Robert Wright Mahon, C. E., Lehigh, 1876; Tutor, Lafayette, 1882-83; Acting Prof., Chem., Rose Polytech., 1888-89.

*Oscar Howard Mitchell, (F), Marietta (A. B., 1875, Prof., Math., 1882-89). **March* 29, 1889.

George Frederick Nicolassen, (F), A. B., Virginia, 1879; Asst., 1881-82. —Prof., Greek and German, Southwestern Presb. Univ., Clarksville, Tenn.

William Albert Noyes, A. B., Iowa, 1879; Instr., Univ. of Minn., 1882-83; Prof., Chem., Univ. of Tenn., 1883-86, Rose Polytech. Inst., 1886-1903.—Chief Chemist, National Bureau of Standards; Fellow by Courtesy.

Chase Palmer, (F), A. B., 1879; Asst., Mass. Inst. Tech., 1882-83, Tufts Coll., 1887-88; Prof., Mass. Norm. School, Salem, 1883-87, Wabash Coll., 1888-90, Manual Train. School, Louisville, 1895-1901.—Prof., Chem., Central Univ., Danville, Ky.

Edward Henry Spieker, (F), A. B., 1879.—Assoc. Prof., Greek and Latin. (9)

1883

William John Alexander, (F), A. B., London, 1876; Prof., Dalhousie, 1883-89.—Prof. English, Toronto Univ.

William Cathcart Day, (F), A. B., 1880; Prof., Chem., St. John's, 1883-84, Univ. of Nashville, 1884-87; Swarthmore, 1887-1901.— Swarthmore, Pa.

William Pitt Durfee, (F), A. B., Mich., 1876.—Prof., Math., and Dean, Hobart Coll., Geneva, N. Y.

Kakichi Mitsukuri, (F), Ph. B., Yale, 1879.—Prof., Zool., Univ. of Tokyo.

George Stetson Ely, (F), A. B., Amherst, 1878; Prof. Math., Buchtel, 1883-84.—Examiner, U. S. Patent Office.

Bernard Francis O'Connor, (F), B. ès Lett., Univ. of France, 1874; Instr. and Adj. Prof., Romance Lang., Columbia, 1883-91.—New York. (6)

1884

Herbert William Conn, A. B., Boston Univ., 1881; Asst., 1883-84.—Prof., Biol., Wesleyan, Middletown, Conn.

Ellery William Davis, (F), S. B., Wis., 1879; Prof., Florida Agric., 1884-88, S. C. Univ., 1888-93.—Prof., Math., Univ. of Neb., Lincoln.

David Talbot Day, (F), A. B., 1881. —U. S. Geol. Survey, Washington.

John Dewey, (F), A. B., Univ. of Vt., 1879; Instr. and Prof., Univ. of Mich., 1884-94.—Prof., Philos., Chicago.

*James Reynolds Duggan, (F), A. B., Mercer, 1877; M. D., Jefferson Med. Coll., 1879; Prof., Chem., Wake Forest, 1886-88. **January* 10, 1888.

William Henry Howell, (F), A. B., 1881; Mich. (M. D., 1890, Lecturer and Prof., 1889-92); LL. D., Trinity, 1901; Assoc. Prof., Harvard, 1892-93.—Prof., Physiol.; Dean, Med. Faculty; Assoc. Ed., *Journal of Experimental Medicine.*

Hans Carl Gunther von Jagemann, (F), Naumburg Gymnas, 1876; Prof., Earlham, 1884-85, Indiana Univ., 1885-89.—Prof., Germanic Philol., Harvard.

Edward Harrison Keiser, (F), S. B., Swarthmore, 1880; Asst., 1884-85; Assoc. Prof. and Prof., Bryn Mawr, 1885-99.—Prof., Chem., Washington Univ., St. Louis.

Arthur Lalanne Kimball, (F), A. B., Princeton, 1881; Assoc. and Assoc. Prof., 1884-91.—Prof., Physics, Amherst.

Henry Leslie Osborn, (F), A. B., Wesleyan, 1878; Prof., Purdue, 1884-87.—Prof. Biol. and Geol., Hamline Univ., St. Paul, Minn.

Charles Albert Perkins, (F), A. B., Williams, 1879; Asst., 1884-87; Assoc., Bryn Mawr, 1887-91; Prof., Hampden Sidney, 1891-92.—Prof. Physics, Univ. of Tenn., Knoxville.

Albert Shaw, A. B., Iowa, 1879; Reader, 1889-90, Lecturer, 1891-92. —Editor, *The Review of Reviews*, New York.

Henry Newlin Stokes, (F), S. B., Haverford, 1879; Asst. Prof., Chem., Chicago, 1893-94.—U. S. Geol. Survey, Washington.

Lewis Webb Wilhelm, (F), A. B., 1880.— Vice-Prin., College Prep. School, Baltimore.

Arthur Yager, A. B., Georgetown (Ky.), 1878.—Prof., Hist., Georgetown. (15)

1885

Edward Webster Bemis, Amherst (A. B., 1880, Instr., 1885-86); Adj. Prof., Vanderbilt, 1886-92; Assoc. Prof., Polit. Econ., Chicago, 1892-95.—Supt., City Water Works, Cleveland.

Gustav Bissing, (F), A. B., 1882; Examiner, U. S. Patent Office, 1884-97. —Patent Atty., Washington.

Henry Herbert Donaldson, (F), A. B., Yale, 1879; Asst., 1883-84, Instr. and Assoc., 1885-89; Asst. Prof., Clark, 1889-92. —Prof., Neurology, Chicago.

Louis Duncan, U. S. Naval Acad., 1880; Assoc. and Assoc. Prof., 1886-99.—Prof., Elec. Eng., Mass. Inst. Tech.

Homer Winthrop Hillyer, (F), Wis. (S. B., 1882, Instr., 1885-98).—Asst. Prof., Organic Chem., Univ. of Wis.

Frederic Schiller Lee, (F), St. Lawrence Univ. (A. B., 1879, Instr., 1886-87); Assoc., Bryn Mawr, 1887-91.—Adj. Prof. and Demonstrator, Physiol., Columbia.

*Gustav Adolph Liebig, Jr., (F), A. B., 1882, Asst., 1887-90. **February* 10, 1897.

James Playfair McMurrich, A. B., Toronto, 1879; Instr., 1884-86; Prof., Haverford, 1886-89; Instr., Clark, 1889-91; Prof., Cincinnati, 1891-94. —Prof., Anatomy, Univ. of Mich.

Albert Gallatin Palmer, (F), A. B., 1882; Asst. and Asst. Prof., Swarthmore, 1885-87.—Norwood, Md.

Harry Fielding Reid. (F), A. B., 1880, Asst., 1882-84, Lecturer, 1894-96; Prof., Case School, 1886-94; Assoc. Prof., Chicago, 1895-97.— Prof., Geol. Physics.

Henry Alford Short, Columbia (A. B., 1880, Fellow, 1880-83, Tutor, 1885-88).—New York.

Morrison Isaac Swift, (F), A. B., Williams, 1879; Instr., Philos., Hobart, 1882-84.

Henry Alfred Todd, A. B., Princeton, 1876; Instr. and Assoc., 1883-91; Prof., Stanford, 1891-93.—Prof., Romance Philol., Columbia. (13)

1886

William Shirley Bayley, (F), A. B., 1883; Prof., Mineral. and Geol., Colby, 1888-1904.—U. S. Geol. Survey.

*Adam Todd Bruce, (F), A. B., Princeton, 1881; Instr., Osteol., 1886-87. **February* 9, 1887.

Davis Rich Dewey, (F), A. B., Univ. of Vt., 1879; Lecturer, 1895-96.— Prof., Economics, Mass. Inst. Tech.

William Henry Emerson, (F), U. S. Naval Acad., 1880; Prof., S. C. Mil. Acad., 1886-88.—Prof., Chem., Ga. School of Tech., Atlanta.

Joseph Auguste Fontaine, Coll. of Sion, France, 1879; Instr., Univ. of Neb., 1887-89; .Prof., .Romance Lang., Univ. of Miss., 1889-91, Bryn Mawr, 1891-99.

Elgin Ralston Lovell Gould, (F), A. B., Victoria (Ont.), 1881; Instr., Wash. High School, 1884-87; Reader, 1887-89, Lecturer, 1892-97; Prof., Chicago, 1895-96; Lecturer, Columbia, 1902-03.—New York.

William Penn Holcomb, Swarthmore, (B. L., 1878, Prof., Hist., 1886-94). —Charlestown, N. H.

Joseph Jastrow, (F), A. B., Univ. of Pa., 1882.—Prof., Exper. Psychol., Univ. of Wis.

George Theophilus Kemp, (F), A. B., 1883; M. D., L. I. Med. Coll., 1891; Demonstr., Univ. of Pa., 1886-87; Assoc. and Assoc. Director, Hoagland Lab., 1888-93.—Prof., Physiol., Univ. of Ill., Champaign.

Charles Herbert Levermore, (F), A. B., Yale, 1879; Instr., Univ. of Cal., 1886-88; Prof., Hist., Mass. Inst. Tech., 1888-93.—President, Adelphi Coll., Brooklyn.

Gonzalez Lodge, (F), A. B., 1883; LL. D., Franklin and Marshall, 1901; Prof., Davidson, 1886-88, Bryn Mawr, 1889-1900.—Prof., Latin and Greek, Teachers Coll., N. Y.

Charles William Emil Miller, (F), A. B., 1882.—Assoc. Prof., Greek.

Henry Barber Nixon, (F), Univ. of N. C., 1878.—Prof., Math., Pa. Coll., Gettysburg.

Charles Skeele Palmer, (F), A. B., Amherst, 1879; Prof., Chem., Univ. of Colo., 1886-1902; Pres., Colo. Sch. of Mines, 1902-03.—Anaconda, Mont.

Burr James Ramage, A. B., Newberry, 1880.—Prof., Common Law, and Dean, Law School, Univ. of the South, Sewanee, Tenn.

Shosuke Sato, S. B., Sapporo Agric., 1880.—Acting Director and Prof. of Agric. Economics, Agric. Coll., Sapporo, Japan.

Woodrow Wilson, (F), A. B., Princeton, 1879; LL. D., Wake Forest, 1887, Tulane, 1898; Litt. D., Yale, 1901; LL. D., 1902; Assoc. and Assoc. Prof., Bryn Mawr, 1885-1888; Prof., Wesleyan, 1888-90; Lecturer, 1887-98.—Prest., and Prof., Jurisprudence and Politics, Princeton.

(17)

1887

Cyrus Adler, (F), A. B., Univ. of Pa., 1883; Instr. and Assoc., 1887-93.—Librarian, Smithsonian Inst.; Prof., Oriental Hist., etc., Columbian Univ.

Ethan Allen Andrews, (F), Ph. B., Yale, 1881.—Assoc. Prof., Biology.

Rev. Albert Clayton Applegarth, A. B., 1884.—Clergyman, Huntingdon, Pa.

*David Barcroft, (F), Ph. B., Univ. of Cal., 1882. **August* 2, 1894.

Henry Gustav Beyer, M. D., Bellevue Hosp., 1876; M. R. C. S. (London); Director, Phys. Train, U. S. Naval Acad., 1891-95.—Surgeon, U. S. N.

Richard Newman Brackett, A. B., Davidson, 1883.—Asst. Prof. Chem., Clemson Coll., Rock Hill, S. C.

Henry Crew, (F), A. B., Princeton, 1882; Asst., 1887-88; Instr., Haverford, 1888-91.—Prof. Physics, Northwestern Univ., Ill.

Albert E. Egge, (F), A. B., Luther, 1879; Prof., St. Olaf, 1887-92; Instr., Iowa Univ., 1892-96.—Prof. English, Washington Agric. Coll., Pullman.

John Charles Fields, (F), A. B., Toronto, 1884; Prof., Allegheny, 1889-98.—Lecturer, Math., Toronto.

Andrew Fossum, A. B., Luther, 1882.—Prof. Greek, St. Olaf Coll., Northfield, Minn.

Richmond Harding, A. B., Davidson, 1880.—Prof. Greek, Davidson, N. C.

Charles Willard Hayes, (F), A. B., Oberlin, 1883.—U. S. Geol. Survey, Washington; Lecturer, 1903-04.

William Adam Hedrick, A. M., Columbian, 1884.—Instr. Physics, High School, Washington.

Frank Gaylord Hubbard, A. B., Williams, 1880; Instr., Smith Coll., 1887-88, Univ. of Cal., 1888-92.—Prof. English, Univ. of Wis.

George Benjamin Hussey, (F), A. B., Columbia, 1884; Fellow, Princeton, 1888-90; Instr. and Assoc. Prof., Univ. of Neb., 1891-94; Docent, Chicago, 1894-1900.—Asst. Prof. Greek and Latin, Western Maryland Coll., Westminster.

James Hervey Hyslop, (F), A. B., Wooster, 1877; Instr., Bucknell, 1888-89; Prof. Logic and Ethics, Columbia, 1895-02.—New York.

Marion Dexter Learned, (F), A. B., Dickinson, 1880; Instr., Assoc. and Assoc. Prof., 1886-95.—Prof. German, Univ. of Pa.

William Ridgely Orndorff, (F), A. B., 1884.—Prof. Organ. Chem., Cornell.

Daniel Richard Randall, (F), A. B., St. John's, 1883.—Atty. at Law, Annapolis.

Frederick Morris Warren, A. B., Amherst, 1880; Instr. and Assoc., 1886-91; Prof., Adelbert, 1891-1901.—Prof. Modern Lang., Yale; Lecturer, French Literature. (20)

1888

William Muss Arnolt, (F), B. D., New Brunsw. Theol. Sem., 1882; Instr., 1891-93; Asst. Prof., Univ. of Mich., 1893-94; Instr. and Asst. Prof. Biblical Philol., and Asst. Recorder, Univ. of Chicago, 1893-1903.—Belmont, Mass.

Philip Wheelock Ayres, (F), Ph. B., Cornell, 1884.— Director. Summer School, Charity Organ, Soc., N. Y.

Louis Bell, (F), A. B., Dartmouth, 1884; Prof. Physics, Purdue, 1888-89; Lecturer, Mass. Inst. Tech., 1900-01.—Elec. Engineer, Boston.

Benjamin Lester Bowen, A. B., Rochester, 1881; Prof., Bowdoin, 1888-89.—Prof. Romance Lang., Ohio State Univ., Columbus.

William Henry Burnham, (F), A. B., Harvard, 1882; Instr., 1888-89.—Asst. Prof. Pedagogy, Clark Univ.

Richard Eugene Burton, A. B., Trinity (Conn.), 1883; Lecturer, 1898; Prof., Univ. of Minn., 1898-1902.—Univ. Extension Lecturer, English Lit., Univ. of Chicago; Editor, Boston.

John Pendleton Campbell, (F), A. B., 1885.—Prof. Biology, Univ. of Ga., Athens.

Herbert Charles Elmer, (F), A. B., Cornell, 1883.— Asst. Prof. Latin, Cornell.

Robert Orlando Graham, A. B., Amherst, 1877.—Prof. Chem. and Geol., Illinois Wesleyan, Bloomington.

Erasmus Haworth, S. B., Kansas Univ., 1881; Prof., Oskaloosa, 1882-92.—Prof. Phys. Geol., Kansas Univ., Lawrence.

Francis Hobart Herrick, A. B., Dartmouth, 1881.—Prof. Biol., Adelbert, Cleveland.

William Herbert Hobbs, (F), S. B., Worcester Polytech., 1883.— Prof. Mineral., etc., Univ. of Wis.

Joseph Hoeing Kastle, (F), S. B., Ky. State, 1884.—Prof. Chem., Ky. State Coll., Lexington.

Andrew Cowper Lawson, (F), A. B., Toronto, 1883.—Prof. Mineral. and Geol., Univ. of Cal.

Felix Lengfeld, (F), Prof., S. Dak. School of Mines, 1890-91; Instr., Univ. of Cal., 1891-92; Docent, Tutor, Asst. Prof., Chicago, 1892-1901.—Chemist, San Francisco.

Archibald Byron Macallum, A. B., Toronto, 1886.—Assoc. Prof. Physiol., Univ. of Toronto.

John Ernst Matzke, A. B., Hope Coll., 1882; Prof., Bowdoin, 1889-90, Indiana Univ., 1890-91; Assoc., 1891-93.—Prof. Romanic Lang., Stanford.

*Thomas McCabe, (F), A. B., 1886; Instr., Univ. of Mich., 1888-89; Prof., Ind. Univ., 1889-90; Assoc. Romance, Bryn Mawr, 1890-91. **February* 22, 1891.

Yujiro Motora, (F), Doshisha Kyoto, Japan, 1879.—Prof. Psychol., Univ. of Tokyo.

Julius Nelson, (F), S. B., Wis., 1881.—Prof. Biology, Rutgers.

George Thomas White Patrick, (F), A. B., Iowa Univ., 1878; B. D., Yale, 1885.—Prof. Philos., Iowa Univ.

Edmund Clark Sanford, (F), A. B., Cal., 1883; Instr., 1888-89.—Prof. Exper. Psychol., Clark Univ.

Henry Taber, Ph. B., Yale, 1882; Asst., 1888-89.—Asst. Prof. Math., Clark Univ.

*Amos Griswold Warner, (F), Univ. of Neb. (B. L., 1885, Prof., 1889-91); Gen. Sec., Charity Organ. Soc., Balt., 1887-89; Supt. of Charities, D. C., 1891-93; Lecturer, 1892-93; Prof. Econ., Stanford, 1893-1900. **January* 18, 1900.

John Roaf Wightman, (F), A. B., Toronto, 1871; Prof., Iowa Coll., 1889-91; Assoc. Prof., Univ. of Neb., 1891-93. — Prof. Romance Lang., Oberlin.

Henry Van Peters Wilson, (F), A. B., 1883; Bruce Fellow, 1888-89.—Prof. Biol., Univ. of N. C., Chapel Hill.

Thomas Kimber Worthington, A. B., Haverford, 1883; LL. B., Univ. of Md., 1900. (27)

1889

Charles McLean Andrews, (F), A. B., Trinity (Conn.), 1884.—Prof. Hist., Bryn Mawr.

Frank Wilson Blackmar, (F), Ph. B., Univ. of Pacific, 1881.—Prof. Hist., etc., Univ. of Kansas, Lawrence.

Jeffrey Richardson Brackett, A. B., Harvard, 1883; Prest., Supervisors of Charities, Balt., 1900-04; Lecturer, Public Aid, etc., 1897-04.—Director, School for Social Workers, Harvard.

William Merriam Burton, (F), A. B., Adelbert, 1886.—Supt., Standard Oil Co., Whiting, Ind.

Morgan Callaway, Jr., (F), A. B., Emory (Ga.), 1881; Prof. Southwestern Univ., 1889-90.—Prof. English, Univ. of Texas, Austin.

Alfred Robert Louis Dohme, A. B., 1886.—Chemist, Balt.; Instr. Pharmacy.

*William Curns Lawrence Gorton, (F), A. B., 1886; Assoc. Prof. and Prof. Math., Woman's Coll., Balt., 1888-94. **November* 8, 1894.

Joseph Edward Harry, (F), A. B., 1886; Prof., Georgetown, Ky., 1889-1900.—Prof. Greek, Univ. of Cincinnati.

*George Allison Hench, (F), A. B., Lafayette, 1885; Instr., Asst. Prof., Prof. German, Univ. of Mich., 1890-99. **August* 16, 1899.

Clifton Fremont Hodge, (F), A. B., Ripon, 1882; Instr., Univ. of Wis., 1891-92.—Asst. Prof. Physiol., Clark Univ.

Cary Talcott Hutchinson, (F), Ph. B., Washington Univ., 1886; Acting Assoc. Prof. Electricity, 1898-99.—Consulting Engineer, N. Y.

James Thomas Lees, A. B., Adelbert, 1886.—Prof. Greek, Univ. of Neb., Lincoln.

Archibald MacMechan, (F), A. B., Toronto, 1884.—Prof. English, Dalhousie, Halifax.

Charles William Moulton, A. B., Univ. of Minn., 1885.—Prof. Chem., Vassar.

Albion Woodbury Small, Colby (A. B., 1876, LL. D., 1900, Prest., 1889-92); Reader, 1888-89.—Prof. Sociol., Chicago.

Charles Lee Smith, (F), S. B., Wake Forest, 1884; Instr., 1889-91; Gen. Sec., Charity Organ. Soc., Balt., 1889-91. — Prof. Hist., William Jewell Coll., Liberty, Mo.

Kirby Flower Smith, A. B., Univ. of Vt., 1884.—Prof. Latin.

Rev. Lemon Leander Uhl, A. B., Wittenberg, 1871.—Boston.

Arthur Clarence Wightman, (F), A. B., Wofford, 1879; Demonstr., 1889-90; Prof., Md. Agric., 1890-91.—Prof. Biol. and Phys., Randolph-Macon, Ashland, Va.

*William Klapp Williams, A. B., 1886. **June* 4, 1897. (20)

1890

Joseph Sweetman Ames, (F), A. B., 1886.—Prof. Physics.

Rev. Edward Carey Applegarth, (F), A. B., 1887; M. D., Phys. and Surg., Balt., 1892.—Clergyman, Boston.

Charles Cotton Blackshear, A. B., Mercer, 1881; Instr., Bryn Mawr, 1890-91.—Prof. Chem., Woman's Coll., Balt.

Charles Hiram Chapman, (F), A. B., 1888; Instr. and Assoc., 1889-92; Prest., Univ. of Oregon, 1893-99.—Woodland, Wash.

Rudolf John Julius De Roode, Jr., (F), S. B., Ky. State Coll., 1885.—Supt., Bureau of Tests, Internat. Paper Co., N. Y.

George Peter Dreyer, (F), A. B., 1887; Demonstr., Assoc., Assoc. Prof., 1890-1900.—Prof. Physiol., Med. Dept., Univ. of Ill., Chicago.

Edwin Whitfield Fay, (F), A. M., Southwestern Presb., 1883; Instr., Mich., 1890-91; Acting Prof., Univ. of Texas, 1892-93; Prof., Washington and Lee, 1893-99.—Prof. Latin, Univ. of Texas, Austin.

Henry Torsey Fernald, S. B., Maine State, 1885; late Prof., Pa. State Coll.—Prof. Entomol., Mass. Agric. Coll., Amherst.

Henry Brayton Gardner, (F), A. B., Brown, 1884.—Prof. Polit. Econ., Brown Univ., Providence.

Charles Jaques Goodwin, (F), A. B., Bowdoin, 1887; Prof., Cornell Coll., 1890-92; Tutor, Wesleyan, 1892-95; Acting Prof., St. Stephen's, N. Y., 1898-99.—Prof. Greek, Lehigh, S. Bethlehem, Pa.

Charles Homer Haskins, A. B., 1887; Instr., 1889-90; Lecturer, Harvard, 1899-1900; Asst. Prof. and Prof., Wisconsin, 1890-1902.—Prof. Hist., Harvard.

James Taft Hatfield, (F), A. B., Northwestern, 1883.—Prof. German, Northwestern Univ., Ill.

John Cohn Hemmeter, M. D., Univ. of Md., 1883.—Clin. Prof. Med., Univ. of Md.; Physician,. Balt.

Charles Holmes Herty, Univ. of Ga. (Ph. B., 1886, Adj. Prof. Chem., 1894-1902).—Expert, Natl. Bureau of Forestry.

Jesse Herman Holmes, A. B., Univ. of Neb., 1884.—Prof. Hist. and Biblical Lit., Swarthmore, Pa.

Rev. Abel Henry Huizinga, (F), A. B., Hope Coll., 1880; Adj. Prof., McCormick Theol. Sem., 1894-96.—Clergyman, Fishkill, N. Y.

Toyokichi Iyenaga, Ph. B., Oberlin, 1887; late Prof. Polit. Sci., Semmo Gakko, Tokyo.—Univ. Extension Lecturer, Univ. of Chicago.

Thomas Logie, (F), A. B., Toronto, 1887; Asst. Prof., Williams, 1890-93; Assoc. Prof., Rutgers, 1893-98.—Prof. Romance Lang., Univ. of Cape Town, Africa.

Hiram Benjamin Loomis, (F), A. B., Trinity (Conn.), 1885; Instr., Univ. of Wis., 1890-93; Asst. Prof., Northwestern, 1893-96, and Instr. in the Academy, 1896-97; late Science Instr., Medill High School, Chicago.—Western Springs, Ill.

Herbert William Magoun, (F), A. B., Iowa, 1879; Acting Prof., Colo. Coll., 1890-91, Oberlin, 1892-95.— Prof. Latin, Redfield Coll., S. Dakota.

John Hanson Thomas McPherson, (F), A. B., 1886; Instr., Univ. of Mich., 1890-91.—Prof. Hist., Univ. of Ga., Athens.

Wilmot Vernon Metcalf, A. B., Oberlin, 1883.—Prof. Chem. and Phys., Carleton Coll., Northfield, Minn.

Thomas Hunt Morgan, (F), S. B., Ky. State Coll., 1886; Bruce Fellow, 1890-91.—Prof. Biol., Bryn Mawr.

Augustus Taber Murray, (F), A. B., Haverford, 1885; Prof., Earlham, 1888-91, Colorado Coll., 1891-92.—Prof. Greek, Stanford.

Wyatt William Randall, A. B., St. John's, 1884; Asst. and Assoc., 1890-98.—Head Master, Mackenzie School, Dobbs Ferry, N. Y.

*George Mann Richardson, (F), Lehigh (A. C., 1886, Instr., 1890-91); Assoc. Prof. and Prof. Organ. Chem., Stanford, 1891-1902. **July* 26, 1902.

Joseph Samuel Shefloe, (F), A. B., Luther, 1885.—Prof. Romance Lang., and Librarian, Woman's Coll., Balt.

Robert Benson Steele, (F), A. B., Wis., 1883; Prof., St. Olaf, 1890-91, Illinois Wesleyan, 1891-1901. — Adj. Prof. Latin, Vanderbilt.

Andrew Stephenson, A. B., Ind. Asbury, 1882; Assoc. Prof., Wesleyan, 1890-94.—Prof. History, De Pauw, Greencastle, Ind.

Frederick Jackson Turner, A. B., Wis., 1884.—Prof. Amer. Hist., Univ. of Wis.; Lecturer, Harvard, 1903-04.

John Martin Vincent, A. B., Oberlin, 1883.—Assoc. Prof. History.

Shozaburo Watase, (F), S. B., Sapporo Agric., 1884; Bruce Fellow, 1889-90; Lecturer and Asst., Clark, 1890-92; Reader and Asst. Prof., Chicago, 1892-99.— Prof. Zoology, Univ. of Tokyo.

James Albert Woodburn, (F), A. B., Indiana, 1876.—Prof. Amer. Hist., Indiana Univ., Bloomington. (33)

1891

Alfred Bagby, Jr., A. B., Richmond, 1885; Adj. Prof., Greek, S. C. Univ., 1891-93.—Atty. at Law, Balt.; Instr., Balt. Law School.

James William Black, A. B., 1888; Acting Prof., Georgetown Coll., Ky., 1891-92; Assoc. Prof., Oberlin, 1892-94.—Prof. Hist., etc., Colby, Waterville, Me.

Charles Pliny Brigham, A. B., 1888. —Greenport, Long Island, N. Y.

Charles Edward Coates, Jr., A. B., 1887; Prof., St. John's, 1891-93.— Prof. Chem., La. State Univ., Baton Rouge.

Edwin Grant Conklin, (F), Ohio Wesleyan (S. B., 1885, Prof., 1891-94); Prof., Northwestern, 1894-95.—Prof. Zool., Univ. of Pa.

Paul Joseph Dashiell, A. B., 1887; Instr., Lehigh, 1889-90, 1891-92.—Prof. Chem., U. S. Naval Academy.

Herman Louis Ebeling, (F), A. B., 1882; Prof., Miami Univ., 1891-99; Acting Prof. and Instr., Haverford, 1901-03.— Asst. Prof. Greek, Hamilton Coll., Clinton, N. Y.

William Snyder Eichelberger, (F), A. B,. 1886; Instr., Wesleyan, 1891-96. —Prof. Math., U. S. Navy, Wash.

Thomas Perrin Harrison, (F), S. C. Mil. Acad., 1886; Assoc. Prof., Clemson, 1891-95.—Prof. English, Davidson, N. C.

Walter Jones, A. B., 1888; Acting Prof., Wittenberg, 1891-92; Instr. and Prof., Purdue, 1892-95.—Assoc. Prof. Physiol. Chem.

Henry Parker Manning, (F), A. B., Brown, 1883.—Asst. Prof. Pure Math., Brown.

George Frederick Metzler, A. B., Albert Coll., 1889; Instr., Univ. of Mich., 1892-93, Queen's Univ., Ont., 1895-96.

William McCracken Milroy, A. B., Geneva, 1887.—Prof. Latin, Geneva Coll., Beaver Falls, Pa.

John Leverett Moore, (F), Princeton (A. B., 1881, Tutor, 1882-85); Instr., 1888-89.—Prof. Greek and Latin, Vassar.

Wilfred Pirt Mustard, (F), A. B., Toronto, 1886; Prof., Colorado Coll., 1891-93.—Prof. Latin, Haverford, Pa.

Barker Newhall, (F), A. B., Haverford, 1887; Instr., Brown, 1892-95, Bates Coll., 1895-96.—Prof. Greek, Kenyon Coll., Gambier, O.

George Petrie, A. M., Va., 1887.—Prof. Hist., Ala. Polytech., Auburn.

Edward Bennett Rosa, (F), Wesleyan (S. B., 1886, Prof., 1891-1903).— Chief Physicist, Bureau of Standards, Washington.

Edward Alsworth Ross, A. B., Coe Coll., 1886; Prof., Indiana Univ., 1891-92; Assoc. Prof., Cornell, 1892-93; Prof., Stanford, 1893-1900.— Prof. Sociol., Univ. of Neb., Lincoln.

Charles Edward Saunders, (F), A. B., Toronto, 1888; Prof., Central Univ., Ky., 1891-93.—Ottawa, Canada.

*Sidney Sherwood, A. B., Princeton, 1879; Instr., Univ. of Pa., 1891-92; Assoc. and Assoc. Prof. Polit. Econ., 1892-1901. **August* 5, 1901.

Moses Stephen Slaughter, (F), A. B., Ind. Asbury, 1883; Instr., Bryn Mawr, 1887-88; Prof., Iowa Coll., 1889-96.—Prof. Latin, Univ. of Wis.

Bernard Christian Steiner, (F), A. B,. Yale, 1888; LL. B., Univ. of Md., 1894; Instr., Williams, 1891-92; Prof., Balt. Univ. School of Law, 1897-1900.—Librarian Pratt Library; Dean and Prof., Balt. Law School; Assoc. History.

William Howe Tolman, A. M., Brown, 1882.—Director, American Inst. of Social Service, N. Y.

Stephen Beauregard Weeks, A. B., N. C., 1886; LL. D., Wake Forest, 1902; Prof., Trinity (N. C.), 1891-93.—Supt., Indian School Service, San Carlos, Ariz.

John White, Jr., (F), A. B., 1888; Asst., Cornell, 1891-93; Prof., Univ. of Neb., 1893-1903.—Prof. Chem., Rose Polytech., Terre Haute.

Westel Woodbury Willoughby, (F), A. B., 1888; Acting Asst. Prof. Stanford, 1894-95.—Assoc. Prof. Polit. Science.

Arthur Burnham Woodford, Ph. B., Yale, 1881; Instr., Univ. of Pa., 1891-92; late Prof., Coll. of Soc. Econ., New York, and Lecturer, New York Univ.—Instr., High School, New Haven. (28)

1892

Eugene Thomas Allen, A. B., Amherst, 1887; Acting Prof., Univ. of Colo., 1892-93; Asst., Harvard, 1894-95; Prof. Chem., Mo. School of Mines, 1895-01.—U. S. Geol. Survey, Wash.

William Wilson Baden, (F), A. B., 1881; LL. B., Univ. of Md., 1883; Prof., Southwestern Univ., 1892-93, Central (Ky.), 1893-96.—Prof. Greek and Latin, Idaho Univ., Moscow.

Robert Payne Bigelow, (F), S. B., Harvard, 1887; Bruce Fellow, 1891-93.—Instr. Biology, and Librarian, Mass. Inst. Tech.

Edwin Winfield Bowen, A. B., Rand.-Macon, 1887; Asst. Prof., Univ. of Mo., 1892-93.—Prof. Latin, Randolph-Macon, Ashland, Va.

Immanuel Moses Casanowicz.—Aid, Div. of Historic Archæol., U. S. National Museum, Washington.

Starr Williard Cutting, A. B., Williams, 1887.— Prof. German Lit., Chicago.

Rev. William Levering Devries, (F), A. B., 1888; S. T. B., Gen. Theol. Sem., N. Y., 1894.—Clergyman, Washington.

Albert Bernhardt Faust, (F), A. B., 1889, Instr., 1894-96; Assoc. Prof., Wesleyan (Conn.), 1896-1903.—Asst. Prof. German, Univ. of Wis.

George Wilton Field, Brown Univ. (A. B., 1887, Assoc. Prof., 1893-96); Prof. R. I. Agric. Coll., 1896-1901.—Lecturer, Econ. Zool., Mass. Inst. Tech.

Joseph Elliott Gilpin, A. B., 1889.—Assoc. Chemistry.

John Leslie Hall, (F).—Prof. English and Hist., William and Mary Coll., Va.

William Asbury Harris, (F), A. M., Richmond, 1886; Acting Prof., Ripon, 1892-93; Prof., Baylor, 1893-1901.—Prof. Greek, Richmond Coll., Va.

Frederick Clemson Howe, A. B., Allegheny, 1889.—Atty. at Law, Cleveland; Prof., Baldwin Univ., O.

William Isaac Hull, A. B., 1889.—Prof. Hist. and Econ., Swarthmore, Pa.

Harry Clary Jones, (F), A. B., 1889.—Assoc. Prof. Phys. Chem.

James Lawrence Kellogg, (F), Olivet (S. B. 1888, Prof., 1892-99).—Prof. Biol., Williams Coll.

Charles Rollin Keyes, (F), S. B., Iowa Univ., 1887; late State Geologist of Missouri.—Prest., New Mexico Sch. of Mines, Socorro.

Elmer Peter Kohler, (F), A. B., Muhlenberg, 1886.—Prof. Chem., Bryn Mawr.

*Paul Erasmus Lauer, (F), A. B., Adelbert, 1885; Asst. Supt. of Schools, Cleveland, 1892-93. **February* 20, 1893.

Edwin Seelye Lewis, (F), A. B., Wabash, 1888. — Prof. Romance Lang., Princeton.

David Judson Lingle, (F), S. B., Chicago, 1885.—Instr. Physiol., Chicago.

Alvin Frank Linn, (F), A. B., Wittenberg, 1884. — Prof. Chem. and Mineral., Wittenberg Coll., Springfield, O.

James Alexander Lyman, A. B., Beloit. 1888; Docent, Chicago, 1892-93.—Instr. Chem., Portland Academy, Oregon.

John Hanson Thomas Main, (F), A. B., Moore's Hill, 1880.—Prof. Greek, and Acting Prest. (1900-02), Iowa Coll., Grinnell.

Frank Jewett Mather, Jr., (F), Williams (A. B., 1889, Instr., 1892-1900).—Asst. Ed., *Evening Post*, N.Y.

Michael Andrew Mikkelsen, (F), A. B., Luther, 1886.—Montclair, N. J.

Robert Milton Parks, Jr., A. B., Indiana, 1879; Prof., Furman, 1892-93, Central (Ky.), 1893-1900.—Prof. Chem., Manual Train. School, Louisville.

Charles Lane Poor, (F), S. B., N. Y. City Coll., 1886; Instr., Assoc., Assoc. Prof., 1891-99.— Lectr. and Prof. (*elect*) Astron., Columbia Univ.

John Dyneley Prince, (F), A. B., Columbia, 1888; Prof., N. Y. Univ., 1892-02.—Prof. Semitic Lang., Columbia.

John Cunningham Robertson, (F), A. M., Va., 1885.—Prof. Greek, St. Stephen's Coll., Annandale, N. Y.

*Charles Hunter Ross, (F), S. B., Ala. Agric., 1886; Prof. Mod. Lang., Southwestern Univ., 1890-91, Ala. Polytech., 1892-1900. **February* 23, 1900.

Harry Luman Russell, S. B., Wis., 1888.—Prof. Bacteriol., Univ. of Wis.

William Amasa Scott, A. B., Rochester, 1886.—Prof. Economic Hist. and Theory, and Director, Sch. of Commerce, Univ. of Wis.

Will Bush Shober, A. B., St. John's, 1885.—Instr. Chem., Lehigh.

Martin Bell Stubbs, A. B., Haverford, 1888; Instr. Chem., Ursinus, 1900-01.—U. S. Weather Bureau, New Orleans.

Harry Maas Ullmann, A. B., 1889; Hon. Fellow, Chicago, 1892-93.—Instr. Chem., Lehigh.

Bert John Vos, (F), A. B., Mich., 1888; Instr., Chicago, 1892-93.—Assoc. Prof. German. (37)

1893

Henry Harold Ballard, A. B., 1888; Instr., Rose Polytech., 1893-96.—Math. Master, Country School, Balt.

Florence Bascom, S. B., Wis., 1884; Instr., Ohio State Univ., 1893-95.—Assoc. Prof. Geol., Bryn Mawr.

Jasper Luther Beeson, A. B., Univ. of Ala., 1889.—Prof. Chem. and Phys., Ga. Normal and Industrial Coll., Milledgeville.

Alexander Mitchell Carroll, (F), Richmond (A. M., 1888, Prof., 1895-97); Reader, 1898-99.—Prof. Greek and Latin, Columbian, D. C.

*Andrew Fuller Craven, LL. B., Chicago, 1880; A. B., Harvard, 1889; Prof. Politics and Econ., Columbian, 1893-04. **March* 2, 1904.

John Bascom Crenshaw, A. M., Rand.-Macon, 1881; Instr. Phys. Culture, 1893-99.—Instr., Balt. City Coll.

Ulysses Sherman Grant, (F), S. B., Univ. of Minn., 1888.—Prof. Geol., Northwestern Univ., Ill.

David I. Green, A. B., Alfred Univ., 1885.—Supt., Organ. Charities, Hartford, Conn.

William Richard Grey, A. B., Davidson, 1884.—Prof. Latin and French, Davidson, N. C.

George Henry Haynes, A. B., Amherst, 1887.—Prof. Hist. and Polit. Sci., Worcester Polytech. Inst., Mass.

Charles Downer Hazen, A. B., Dartmouth, 1889.—Prof. Hist., Smith Coll.

Frank Irving Herriott, Iowa Coll. (A. B., 1890, late Prof. Economics).—Des Moines, Iowa.

David Hull Holmes, (F), A. B., Iowa Wesleyan, 1885; Acting Prof., Allegheny, 1893-94; Prof., Univ. of Kansas, 1896-97.—Class. Instr., High School, Brooklyn.

Arthur John Hopkins, (F), A. B., Amherst, 1885; Prof., Westminster Coll. (Pa.), 1893-94. — Asst. Prof. Chem., Amherst.

Theodore Hough, (F), A. B., 1886.; Instr. and Asst. Prof., Mass. Inst. Tech., 1893-1903.—Assoc. Prof. Biol., Simmons Coll., Boston.

James Alton James, (F), B. L., Wis., 1888; Prof., Cornell Coll., 1893-96. —Prof. European Hist., Northwestern Univ., Ill.

Henry Read McIlwaine, A. B., Hampden-Sidney, 1884.—Prof. English and Hist., Hampden-Sidney, Va.

*Louis Emil Menger, (F), A. B., Miss. Coll., 1888; Instr. and Assoc., 1893-97; Assoc. Prof. and Prof. Romance Philol., Bryn Mawr, 1897-1903. **August* 5, 1903.

Colyer Meriwether, A. B., 1886.—Instr. English, etc., Washington High Sch.

*Lucius Salisbury Merriam, (F), S. B., Vanderbilt, 1889; Instr. Pol. Econ., Cornell, 1893. **November* 18, 1893.

Maynard Mayo Metcalf, (F), A. B., Oberlin, 1889; Bruce Fellow, 1893. —Prof. Biol., Woman's Coll., Balt.

Daniel Alexander Murray, (F), A. B., Dalhousie, 1884; Assoc. Prof., New York Univ., 1890-94; Instr., Cornell, 1894-1901.—Instr. Math., Dalhousie, Halifax, N. S.

William Peters Reeves, A. B., 1889; Asst., Union, 1895-97; Prof., Iowa Univ., 1897-1900. — Prof. English, Kenyon Coll., Gambier, O.

Charles Alphonso Smith, A. B., Davidson, 1884; Prof., La. Univ., 1893-02. —Prof. English, Univ. of N. C., Chapel Hill.

George Owen Squier, (F), U. S. Mil. Acad., 1887.—Colonel, U. S. A.; U. S. Signal Service, Washington.

John Nesbit Swan, A. B., Westminster Coll. (Pa.), 1886.—Prof. Chem., Monmouth Coll., Ill.

Frederick Tupper, Jr., (F), A. B., Charleston, 1890; Prof., Wells Coll., 1893-94.—Prof. Rhetoric and English Lit., Univ. of Vt., Burlington.

Frank Alfred Wolff, Jr., (F), A. B., 1890.—Prof., Columbian; Physicist, Bureau of Standards, Wash. (28)

1894

James Nesbit Anderson, A. M., Va., 1887; Prof., Univ. of Oklahoma, 1894-96.—Instr. Latin, Vanderbilt, Nashville, Tenn.

John Spencer Bassett, (F), A. B., Trinity (N. C.), 1888.—Prof. History, Trinity, Durham, N. C.

William Julian Albert Bliss, A. B., Harvard, 1888; Instr., Woman's Coll., Balt., 1894-95. — Collegiate Prof. Physics.

James Douglas Bruce, A. M., Va., 1883; Prof., Centre Coll. (Ky), 1890-91; Assoc. Prof., Bryn Mawr, 1891-1900. —Prof. English, Univ. of Tenn., Knoxville.

James Dowden Bruner, A. B., Franklin Coll., 1888; Prof., Univ. of Ill., 1893-95; Asst. Prof., Chicago, 1895-98.—Assoc. Prof. Romance Lang., Univ. of N. C., Chapel Hill.

John Emery Bucher, A. C., Lehigh, 1891; Instr., Tufts, 1894-97; Assoc. Prof., R. I. Agric. Coll., 1897-1900. —Assoc. Prof. Organ. Chem., Brown Univ., Providence.

Frank Kenneth Cameron, A. B., 1891; Fellow and Asst., Cornell, 1894-95, 1897-98; Asst. Prof., Catholic Univ., 1895-97.—Soil Chemist, Agric. Dept., Wash.

William Embert Chamberlin, A. B., Oberlin, 1887; Instr., Wabash Coll., 1894-95.—Analyt. Chemist, New York.

Abraham Cohen, (F), A. B., 1891.— Assoc. Mathematics.

Louis Leaming Forman, A. M., Univ. of Pa., 1890.—Instr. Greek, Cornell.

Edward Curtis Franklin, S. B., Univ. of Kan., 1888.—Prof. Phys. Chem., Univ. of Kansas, Lawrence.

Joseph Hendren Gorrell, A. B., Washington and Lee, 1888.—Prof. Modern Lang., Wake Forest Coll., N. C.

George Perry Grimsley, A. B., Ohio State Univ., 1890.—Prof. Geol., etc., Washburn Coll., Topeka, Kan.

Ross Granville Harrison, (F), A. B., 1889; M. D., Bonn, 1899; Bruce Fellow, 1894; Lecturer, Bryn Mawr, 1894-95.—Assoc. Prof. Anatomy.

*Robert Nelson Hartman, A. B., Pa. Coll., 1891; Instr., Tufts Coll., 1896-99; Prof. Chem., Colo. Sch. of Mines, 1899-1903. **May* 8, 1903.

Jacob H. Hollander, (F), A. B., 1891; Treasurer of Porto Rico, 1900-01.— Assoc. Prof. Pol. Econ.

Lorrain Sherman Hulburt, A. B., Wis., 1883; Prof., Univ. of S. Dak., 1887-91; Fellow, Clark, 1891-92.—Collegiate Prof. Mathematics.

Masanobu Ishizaka, Ph. B., Albion Coll., 1891.— Lecturer, Hist. and Econ., Mie-Ji-Gaku-In, Tokyo.

Thomas Atkinson Jenkins, A. B., Swarthmore, 1887; Prof., Vanderbilt, 1895-1900, Swarthmore, 1900-01.—Assoc. Prof. French, Chicago.

Christopher Johnston, (F), Va. (B. Litt., 1876, A. B., 1878, A. M., 1879); M. D., Univ. of Md., 1880.—Assoc. Prof. Oriental Hist. and Archæol.

Emory Bair Lease, (F), A. B., Ohio Wesleyan, 1885; Prof., Allegheny, 1894-96; Asst. Prof., Mich., 1896-99; Instr. Wesleyan, 1899-1901.—Instr. Latin, Coll. City of New York.

Arthur Stanley Mackenzie, (F), A. B. Dalhousie, 1885. — Prof. Physics, Bryn Mawr.

*Edward Payson Manning, (F), A. B., Brown, 1889; Instr., St. Lawrence Univ., 1894-95. **February* 15, 1897.

Charles Carroll Marden, A. B., 1889; Instr., Mich., 1890-91.—Assoc. Prof. Spanish.

Edward Bennett Mathews, (F), A. B., Colby, 1891.—Assoc. Prof. Mineralogy.

Philip Randle Moale, A. B., 1889.—Chemist, Asheville, N. C.

Constance Pessels, Univ. of Texas (B. L., 1886, late Instr. in English).—Instr., High School, San Antonio.

Jesse Siddall Reeves, S. B., Amherst, 1891.—Atty. at Law, Richmond, Ind.

Arthur Percy Saunders, (F), A. B., Toronto, 1890; Instr., Wis., 1894-96; Asst., McGill, 1898-99, Cornell, 1899-1900.—Instr. Chem., Hamilton Coll., Clinton, N. Y.

Robert Lincoln Slagle, A. B., Lafayette, 1887.—Prest., S. Dakota Sch. of Mines, Rapid City.

Rev. Daniel Gurden Stevens, Jr., (F), A. B., 1891; B. D., Crozer Theol. Sem., 1897.—Clergyman, Bryn Mawr, Pa.

Frederick Henry Sykes, (F), A. B., Toronto, 1885; Prof., Western Univ. (Ont.), 1895-97; Lecturer, 1900-1902.—Prof. English Lit., and Director, Extension Dept., Teachers Coll., Columbia.

*Milo Scott Walker, Ph. B., Wooster, 1899.—Late Instr. Chem., McKinley High School, Chicago. **December* 30, 1903.

George Francis Weida, (F), Prof., Blackburn, 1894-96, Baker, 1896-97, Kansas Agric. Coll., 1897-1903.—Prof. Chem., Ripon Coll., Wis. (34)

1895

Rufus Mather Bagg, A. B., Amherst, 1891; Asst., 1895-97; Acting Prof., Colo. Coll., 1898-99.—Prof. Mineral., etc., New Mexico School of Mines, Socorro.

Thomas Stockham Baker, (F), A. B., 1891.—Prof. Mod. Lang., Tome Inst., Port Deposit, Md.; Lecturer, German.

James Curtis Ballagh, A. B., 1894.—Assoc. History.

Daniel Base, A. B., 1891.—Assoc. Prof. Chem., Md. Coll. of Pharmacy, and Coll. of P. and S., Balt.

Henry Marvin Belden, A. B., Trinity (Conn.), 1888.—Asst. Prof. English, Univ. of Missouri, Columbia.

Arthur Fisher Bentley, (F), A. B., 1892.—Chicago.

Samuel Walker Beyer, (F), S. B., Iowa Agric., 1889.— Assoc. Prof. Geol., Iowa Agric. Coll., Ames.

*William Bromwell, A. B., 1888; Instr. Chem., Pratt Inst., Brooklyn, 1896-98. **September* 30, 1898.

Clarence Griffin Child, (F), A. B., Trinity (Conn.), 1886.—Asst. Ed. Worcester's Dictionary; Asst. Prof. English, Univ. of Pa.

Fonger DeHaan, (F), Asst., Instr., Assoc., 1894-97.—Assoc. Prof. Spanish, Bryn Mawr.

Charles Sumner Estes, A. B., Colby, 1884; Prof., Furman, 1896-98.—Instr. Latin, High School, Brooklyn.

Henry Fay, A. B., Lafayette, 1889.—Asst. Prof. Chem., Mass. Inst. Tech.

Henry Stewart Gane, (F), A. B., Amherst, 1891.—U. S. Geol. Survey, Washington.

George William Gray, A. B., 1890.—Chemist, Standard Oil Co., Whiting, Ind.

John Joseph Griffin, A. B., Ottawa Univ., 1881.—Prof. Chem., Catholic Univ., D. C.

William August Haussmann, (F), A. B., 1892.—Instr. German, Central High School, Phila.

John Haynes, A. B., Williams, 1888; Prof. Hist., Norwich Free Acad., 1895-99.—Junior Master, High Sch., Dorchester, Mass.

Samuel Rivers Hendren, A. B., Wash. and Lee, 1892.—Staunton, Va.

Howard Haynes Higbee, A. B., Yale, 1884; Instr., Tufts, 1895-96; Prof. Chem., Hamilton, 1896-1900.—Elec. Engineer, N. Y.

Rockwell Dennis Hunt, Ph. B., Napa Coll., 1890; Prof. Hist., Univ. of the Pacific, 1895-1901.—Princ., High School, San Jose, Cal.

Joseph Rufus Hunter, A. B., Wake Forest, 1885.—Prof. Chem., Richmond Coll., Va.

George Wesley Johnston, (F), A. B., Toronto, 1886; Acting Asst. Prof., Cornell, 1895-96.— Lecturer, Latin, Univ. of Toronto.

Thomas Franklin Kane, (F), A. B., De Pauw, 1888; Prof. Olivet, 1895-1900.—Prest., and Prof. Latin, Univ. of Wash., Seattle.

William Jay Karslake, S. B., Lafayette, 1891; Instr., Dalhousie,, 1895-96.—Prof. Chem., Butler Coll., Indianapolis.

George Charles Keidel, (F), A. B., 1889.—Assoc., Romance Lang.

William Hamilton Kirk, (F), A. B., 1893; Instr., Vanderbilt, 1895-1900.—Prof. Latin, Rutgers.

John Holladay Latane, A. B., 1892, Shaw Lecturer, 1898-99; Prof., Randolph-Macon Woman's Coll., 1898-02.—Prof. Hist., Wash. and Lee, Lexington, Va.

Exum Percival Lewis, S. B., Columbian, 1888.—Asst. Prof. Physics, Univ. of Cal.

William Henry Maltbie, (F), A. B., Ohio Wesleyan, 1890.—Prof. Math., Woman's Coll., Balt.

Solomon Reid McKee, A. B., Davidson, 1888; Prof., Ogden Coll., 1895-99.—Prof. Chem., Southwestern Presb., Clarksville, Tenn.

Thomas Francis Moran, (F), A. B., Mich., 1887.—Prof. Hist., etc., Purdue Univ., **Lafayette, Ind.**

Louis Trenchard More, (F), Ph. B., Wash. Univ., 1892; Instr., Worcester Polytech., 1895-96; Adj. Prof., Univ. of Neb., 1896-1900.—Prof. Physics, Univ. of **Cincinnati.**

Anthony Moultrie Muckenfuss, A. B., Wofford, 1889; Prof., Millsaps Coll., 1893-02.—Prof. Chem., Univ. of **Ark.**, Fayetteville.

Lyman Churchill Newell, Ph. B., Brown, 1890.—Instr. Chem., Normal School, Lowell, Mass.

James Flack Norris, (F), A. B., 1892.—Asst. Prof. Chem., Mass. Inst. Tech.

Edwin Fitch Northrup, (F), A. B., Amherst, 1891; Assoc. Prof. Physics, Univ. of **Texas, 1896-97.—Phila.**

Robert Somerville Radford, Va. (B. Ph., 1889, Ph. D., 1891, A. M., 1892); Prof., **Washburn, 1897-98;** Assoc., Bryn Mawr, 1899-01.—Prof. Latin, Elmira Coll., N. Y.

Rene De Saussure, Ecole Polytech., Paris; Prof. Math., Catholic Univ., 1895-99.—**Switzerland.**

Thomas Edward Shields, A. M., St. Mary's Sem. (Balt.), 1892; Instr., St. Paul Sem., Minn., 1895-1902.—Instr., Physiol. Psychol., Catholic Univ., D. C.

John Archer Silver, A. B., Princeton, 1886.—Prof. Hist., Hobart, Geneva, N. Y.

*Alfred William Stratton, (F), A. B., Toronto, 1887; Asst. and Assoc., Chicago, 1895-99; Registrar, Univ. of the Punjab, and Prof. Sanskrit, Oriental Coll., Lahore, 1899-02. **August* 23, 1902.

William Stuart Symington, Jr., A. B., 1891; Instr. and Assoc. Prof., Stanford, 1893-95; Prof. Romance Lang., Amherst, 1895-1903.—New York.

Masayoshi Takaki, S. B., Syracuse, 1891; late Lecturer, Sociol., Univ. of Tokyo.—Manager, Dai Ishi Ginko, Seoul, Korea.

Robert Richardson Tatnall, S. B., Haverford, 1890; Instr., Univ. of Pa., 1895-01. — Instr. Physics, Northwestern Univ., Ill.

Thaddeus Peter Thomas, B. P., Univ. of Tenn., 1885.—Prof. Hist., Woman's Coll., Balt.

James Waddell Tupper, A. B., Dalhousie, 1891; Prof., Western Univ., Ont., 1897-1900; Assoc., Bryn Mawr, 1900-02.—Instr. English, Harvard.

William Achenbach Wetzel, A. B., Lafayette, 1891.—Princ., High School, Trenton, N. J. (47)

1896

Benjamin William Arnold, Jr., A. B., Rand.-Macon, 1891; Acting Prof., Emory, 1899-1900; Prof., Normal School, Farmville, Va., 1900-02.—Prof. Hist. and Sociol., Rand.-Macon Woman's Coll., Lynchburg, Va.

George Melville Bolling, (F), A. B., Loyola, 1891.—Assoc. Prof. Greek, and Asst. Prof. Compar. Philol., Catholic Univ., D. C.

Ferdinand Bonnotte.—Prof. Modern Lang., Western Md. Coll., Westminster.

Alfred Cookman Bryan, A. B., 1892; Instr., Wash. High School, 1896-1902.—Instr. Hist., Polytech. Prep. Sch., Brooklyn.

Arthur Douglas Chambers, (F), A. B., Toronto, 1892.— Chemist, Ashburn, Mo.

Julian Alvin Carroll Chandler, A. B., William and Mary, 1891.—Prof. Hist. and English, Richmond Coll., Va.

James Wilkinson Chapman, Jr., A. B., Washington (Md.), 1892; LL. B., Univ. of Md., 1897.—Atty. at Law, Balt.

Henry Scofield Cooley, S. B., New York Univ., 1891. — Instr. Hist., High School, Ogden, Utah.

Henry Rushton Fairclough, (F), Toronto (A. B., 1883, Lecturer, 1887-93).—Prof. Classical Lit., Stanford.

Edson Fessenden Gallaudet, Yale (A. B., 1893, Instr., Physics., 1897-1900).—Engineer, Cramp Co., Phila.

William Francis Gallaway, (F), A. B., 1891.—Prin., Chatham Acad., Savannah, Ga.

Frederick Stearns Hollis, S. B., Mass. Inst. Tech., 1890.— Instr. Chem., Yale.

Reid Hunt, (F), A. B., 1891, Assoc. and Assoc. Prof., 1898-03; M. D., P. and S., Balt., 1896; Tutor, Columbia, 1896-98. — Pharmacologist, Bureau of Public Health, Wash.

Charles William Leverett Johnson, (F), A. B., 1891; Instr., Yale, 1897-1900; Instr. Latin, Princeton, 1900-03.—Student in Europe.

Oliver Martin Johnston, (F), A. B., Miss. Coll., 1890; Lectr., Bryn Mawr, 1896-97.—Asst. Prof. Romanic Lang., Stanford.

Frederick Robertson Jones, Western Md., (A. B., 1892, Instr., 1896-97); Instr. and Asst. Prof., Union, 1897-1902.—Assoc. Econ., Bryn Mawr.

James Pinckney Kinard, S. C. Mil. Acad., 1886.—Prof. English, Winthrop Coll., Rock Hill, S. C.

Henry McElderry Knower, (F), A. B., 1890; Bruce Fellow, 1895-96; Instr., Williams, 1896-97.— Instr. Anat.; Sec. and Co-Editor, *Amer. Jour. of Anatomy.*

Gordon Jennings Laing, (F), A. B., Toronto, 1891; Fellow, Amer. Sch. of Class. Studies, Rome, 1896-97; Reader and Lecturer, Bryn Mawr, 1897-99.—Asst. Prof. Latin, Chicago.

George Lefevre, (F), A. B., 1891; Bruce Fellow, 1895-97; Asst., 1897-98.—Prof. Zool., Univ. of Mo., Columbia.

Ebenezer Mackay, (F), A. B., Dalhousie, 1886.—Prof. Chem. and Mineral., Dalhousie, Halifax, N. S.

Raphael Monroe McKenzie, S. B., New York Univ., 1890; Instr. Chem., Univ. of Cinnati,, 1898-99.—Instr. Chem., Stevens Inst., Hoboken, N. J.

Henry Ludwell Moore, (F), A. B., Rand.-Macon, 1892; Instr., 1896-97; Prof. Smith Coll., 1897-1902.—Adj. Prof. Pol. Econ., Columbia.

Franklin Lafayette Riley, (F), A. B., Miss. Coll., 1889; Pres., Hillman Coll., 1896-97.—Prof. Hist., Univ. of Miss.

Brantz Mayer Roszel, (F), A. B., 1889; Instr. Physics, Wash. High School, 1896-1903.—Head Master, Sewanee Gram. School, Tenn.

Herbert Armistead Sayre, B. E., Univ. of Ala., 1893; Prof., Ursinus Coll., 1896-98.—Prof. Physics, etc., Univ. of Ala.

Frederick George Gottlob Schmidt, (F), Acting Prof., Cornell Coll., 1896-97. —Prof. Mod. Lang., Univ. of Oregon, Eugene.

Thomas Stanley Simonds, A. B., Harvard, 1884; Prof., Hobart, 1897-99, Trinity, Conn., 1899-1901; Instr. Latin, Univ. of Cal., 1901-02.—New York.

George Otis Smith, (F), A. B., Colby, 1893.—U. S. Geol. Survey, Washington.

Michael Druck Sohon, Lehigh (A. C., 1890, M. S., 1894. Instr., 1896-97); late Instr. Chem., High School, N. Y.

Francis Edgar Sparks, A. B., 1893.—Atty. at Law, Balt.

Frederic William Speirs, S. B., Worcester Polytech., 1888; Prof., Drexel Inst., 1893-98; late Prof., Manual Train. School, Phila.—Managing Ed., *Booklovers' Magazine;* Lecturer in Econ., Swarthmore College, 1903-04.

Arthur Coe Spencer, S. B., Case School, 1892.—U. S. Geol. Survey, Wash.

Thomas Hardy Taliaferro, (F), C. E., Va. Mil. Inst., 1890; Instr. Math., Pa. State Coll., 1896-1901.—Prest., Univ. of Fla., Lake City.

John Thorne, A. B., Denison, 1885.—Balt.

Harry Langford Wilson, (F), A. B., Queen's (Ont.), 1887.—Assoc. Prof. Latin. (36)

1897

Gellert Alleman, S. B., Pa. Coll., 1893; Instr., Univ. of Me., 1897-98, Washington Univ., 1898-02.—Prof. Chem., Swarthmore.

Edward Cooke Armstrong, (F), A. B., Rand.-Macon, 1890.— Assoc. Prof. French.

Bryon Briggs Brackett, A. B., Syracuse, 1890; Proficient in Elec., 1895; Instr., Union, 1897-98, Wash. High School, 1898-1900, Rutgers, 1900-03. —Instr. Elec., Clarkson School of Tech., Potsdam, N. Y.

James Morton Callahan, (F), A. B., Indiana, 1894; Lecturer, Hamilton, 1897-98; Lecturer, 1899-1900.—Assoc. Prof. European Hist., West Va. Univ., Morgantown.

Hubert Lyman Clark, (F), Amherst (A. B., 1892, Instr., 1897-99).—Prof. Biol., Olivet Coll., Mich.

Frank Hollinger Clutz, (F), Midland Coll. (A. B., 1892, late Instructor). —Kansas City, Mo.

*Franklin Story Conant, (F), A. B., Williams, 1893; Bruce Fellow, 1897. **September* 13, 1897.

William Schofield Day, A. B., Columbia, 1884.—Lectr. Physics, Columbia.

Noah Ernest Dorsey, (F), A. B., 1893, Asst. and Assoc., 1897-1901.—Physicist, Bureau of Standards, Wash.

Pelham Edgar, (F), A. B., Toronto, 1892.—Prof. Mod. Lang., Victoria Univ., Toronto.

Samuel Eagle Forman, A. B., Dickinson, 1887; Lecturer, 1900-01; Prof. English, Balt. City Coll., 1900-01.—Baltimore.

William Ritchie Fraser, A. B., Dalhousie, 1882.—Lecturer, Greek, McGill Univ., Montreal.

Edwin Luther Green, (F), A. B., Wash. and Lee, 1892; Prof., Central (Ky.), 1898-99; Acting Prof., Iowa Coll., 1899-1900.—Adj. Prof. Ancient Lang., S. Carolina Coll., Columbia.

Arthur Sewall Haggett, (F), A. B., Bowdoin, 1893.—Prof. Greek, Univ. of Washington, Seattle.

William Edwards Henderson, (F), A. B., Wooster, 1891; Prof., Ohio Univ., 1897-99.—Asst. Prof. Anal. Chem., Ohio State Univ., Columbus.

William Jackson Humphreys, (F), A. B., Wash. and Lee, 1886. — Instr. Physics, Univ. of Va.

Rev. Bartlett Burleigh James, A. B., Western Md., 1881; Acting Prof. Psychol. and Logic, Western Md. Coll., 1902-03.—Clergyman, Balt.

Duncan Starr Johnson, (F), S. B., Wesleyan, 1892; Bruce Fellow, 1897-98.—Assoc. Prof. Botany.

Edwin Wexler Kennedy, A. B., Univ. of Tenn., 1880; Instr. Woman's Coll., Balt., 1895-97.—Prof. Econ., and Assoc. Latin, Peabody Normal Coll., Nashville, Tenn.

Francis Plaisted King, (F), A. B., Colby, 1890; Asst. State Geologist of Georgia, 1893-96.

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William Tyler Mather, (F), A. B., Amherst, 1896; Asst., 1897.—Assoc. Prof. Physics, Univ. of Texas, Austin.

John McLaren McBryde, Jr., (F), A. B., Univ. of S. C., 1890; Prof. Eng., Hollins Inst., Va., 1897-1903.—Student in England.

John Frederick Mohler, (F), A. B., Dickinson, 1887. — Prof. Physics, Dickinson, Carlisle, Pa.

Charles Patrick Neill, A. B., Georgetown (D. C.), 1891.—Prof. Pol. Econ., Catholic Univ.

Robert Stewart Norris, Univ. of Cal. (S. B., 1892, late Instr. Chem.).

Philip Ogden, A. B., Cornell, 1891.—Assoc. Prof. French Literature.

Nathan Allen Pattillo, S. B., Southern Univ., 1887; Prof., Ala. Normal Coll., 1897-99.—Prof. Math., Rand.-Macon Woman's Coll., Lynchburg, Va.

Alexander Pell, (F).— Prof. Math., Univ. of S. Dakota, Vermillion.

*Charles Dabney Ragland, (F), Rand.-Macon (A. B., 1889, Prof. Chem., 1897-1900). **October* 30, 1900.

Milton Reizenstein, A. B., 1894.—Asst. Agent, Baron Hirsch Foundation, N. Y.

Frank Roy Rutter, (F), A. B., 1894; Lecturer, Columbian, 1901-02.—Dept. of Agric., Washington; Lecturer, Commerce, etc., Iowa Univ., 1903-04.

John Adams Scott, (F), A. B., Northwestern, 1891.—Assoc. Prof. Greek, Northwestern Univ., Evanston, Ill.

George Burbank Shattuck, (F), S. B., Amherst, 1892.—Assoc. Prof. Geology.

George Shipley, A. B., Rand.-Macon, 1887.—English Master, Boys' Latin Sch., Balt.; Asst. Ed., *Baltimore American*.

Charles Peter Sigerfoos, S. B., Ohio State Univ., 1889; Asst., 1895-97.—Prof. Zool., Univ. of Minn., Minneapolis.

Enoch Walter Sikes, A. M., Wake Forest, 1891.—Prof. Polit. Sci. and Hist., Wake Forest, N. C.

William Bull Stoddard, S. B., Colo. Univ., 1894; Asst. Chem., Colo. Sch. of Mines, 1897-98.—Boulder, Colo.

Hugo Paul Thieme, A. B., 1893; Asst. Prof., Earlham, 1897-98; Lecturer, 1900-01.—Instr. French, Univ. of Mich.

George Washington Ward, A. B., Western Md., 1890.—Prof. Hist., etc., Western Md. Coll., Westminster.

Louis Napoleon Whealton, A. B., Western Md., 1892; LL. B., Univ. of Md., 1897.—Atty. at Law, N. Y.

Charles Francis Woods, Jr., A. B., 1891; Prof., Woman's Coll., Richmond, 1897-99; Acting Prof., Swarthmore, 1899-1900, and Pa. Coll., 1900-02.—Acting Prof. German, Univ. of Colo., Boulder. (42)

1898

Cleveland Abbe, Jr., (F), A. B., Harvard, 1894; Prof. Nat. Sci., Western Md., 1898-99, Winthrop, 1899-1901. —U. S. Weather Bureau, Wash.

Howard Bell Arbuckle, A. B., Hampden-Sidney, 1889.—Sci. Instr., Decatur, Ga.

Arthur Henry Baxter, A. B., 1894.—Instr. French, Amherst.

Ernest Julius Becker, A. B., 1894; Prof., Woman's Coll., Richmond, 1899-1901.—Instr. Mod. Lang., Balt. City Coll.

Charles Hillman Brough, (F), Miss. Coll. (A. B., 1894, Prof., 1898-1901); LL. B., Univ. of Miss., 1902.—Prof. Philos., Hist., etc., Hillman Coll., Clinton, Miss.

Murray Peabody Brush, A. B., Princeton, 1894; Instr., Ohio State Univ., 1898-99.—Assoc. Romance Lang.

Killis Campbell, (F), A. B., William and Mary, 1894.—Instr. English, Univ. of Texas, Austin.

Charles Gilpin Cook, S. B., Haverford, 1892.—Science Instr., High School, Brooklyn.

Frederick Henry Duryea Crane, A. B., Union, 1893.— Analytical Chemist, N. Y.

Gilman Arthur Drew, (F), S. B., Iowa Univ., 1890; Bruce Fellow, 1898, Asst., 1898-1900.—Prof. Biol., Univ. of Me., Orono.

William Alexander Eckels, A. B., Dickinson, 1883; Prof. Ripon, 1891-93.—Prof. Greek, Miami Univ., Oxford, O.

John Elesland, A. B., Univ. of S. Dak., 189[illegible]; Prof., Thiel Coll., 1898-1903. —Instr. Math., U. S. Naval Acad.

Charles Wilson Greene, (F), Stanford (A. B., 1892, Asst. Prof., 1898-1900).—Prof. Physiol., Univ. of Mo., Columbia.

James Graham Hardy, (F), A. B., Lafayette, 1894.—Asst. Prof. Math., Williams.

Lancelot Minor Harris, A. B., Wash. and Lee, 1888; Instr. and Asst. Prof., Indiana Univ., 1894-98.—Prof. English, Charleston Coll., S. C.

Caleb Notbohm Harrison, Univ. of Wis. (B. C. E., 1882, Acting Prof., 1899-1900).—Madison. Wis.

Charles Hoeing, (F), A. B., Ky. State Coll., 1890.—Instr. Latin, and Librarian, Univ. of Rochester, N. Y.

William App Jones, (F), A. B., Wake Forest, 1893.—Anal. Chemist, N. Y.

Percy Lewis Kaye, Iowa Univ. (A. B., 1895, Instr., 1898-1900); Instr., Coe Coll., 1900-01.—Instr. Hist., Balt. City Coll.

Samuel Shipman Kingsbury, A. B., Marietta, 1893.—Instr. Greek, Princeton Prep. School, N. J.

Guy Carleton Lee, (F), LL. B., Univ. of N. C., 1894; A. B. and LL. M., Dickinson, 1895.—Instr. History.

Arthur Gray Leonard, A. B., Oberlin, 1889; Acting Prof., Univ. of Mo., 1899-1900. — Asst. State Geologist, Des Moines, Iowa.

Charles Elwood Mendenhall, (F), S. B., Rose Polytech., 1894; Instr., Williams, 1898-1901.—Asst. Prof. Physics, Univ. of Wis., Madison.

Samuel Alfred Mitchell, (F), A. M., Queen's (Ont.), 1894; Fellow, Chicago, 1898-99.—Tutor, Astron., Columbia.

Cleophas Cisney O'Harra, A. B., Carthage, 1894.—Prof. Geol., S. Dak. Sch. of Mines, Rapid City.

Daniel Allen Penick, (F), A. B., Texas, 1891.—Instr. Latin and Greek, Univ. of Texas, Austin.

Thomas Dobbin Penniman, A. B., 1892. —Electr. Eng., Balt.

Charles William Peppler, (F), A. B., 1892.—Prof. Greek, Emory Coll., Oxford, Ga.

Ebenezer Emmet Reid, (F), A. M., Richmond, 1892; Prof., Charleston Coll., 1898-1901.—Prof. Chem., Baylor Univ., Waco, Texas.

*Edward Rhoads, S. B., Haverford, 1893; Instr. Physics, Worcester Polytech., 1898-1900, Haverford, 1900-03. **July* 4, 1903.

Garnett Ryland, A. M., Richmond, 1892; Instr. and Asst. Prof., Univ. of Me., 1898-1901.—Prof. Chem., Converse Coll., Spartanburg, S. C.

William Berney Saffold, (F), A. B., Ala., 1887.—Prof. Greek and Latin, Univ. of Ala.

Aristogeiton Marcus Soho, Prof., St. John's 1894-1902.—Prof. French and Latin, Balt. City Coll.; Lecturer, Modern Greek.

Charles William Waidner, (F), A. B., 1896, Asst., 1898-99; Instr., Williams, 1899-1901.—Physicist, Bureau of Standards, Wash.

Richard Henry Wilson, A. B., 1892, Instr., 1898-1899.— Prof. Romance Lang., Univ. of Va.

Albert Francis Zahm, A. M., Notre Dame, 1885.—Assoc. Prof. Mechanics, Catholic Univ., D. C. (36)

1899

Thomas Sewell Adams, (F), A. B., 1896.—Asst. Prof. Econ., Univ. of Wis., Madison.

John William Basore, (F), Hampden-Sidney (A. B., 1893, Prof., 1899-1900).—Instr. Latin, Univ. of Cal., Berkeley.

Edward William Berger, Baldwin Univ. (Ph. B., 1894, Prof., 1899-1901); Science Instr., Cleveland High School, 1901-02.—Berea, O.

William Noland Berkeley, S. B., St. John's 1896.—Chemist, San Juan, Porto Rico.

Pierce Butler, (F), A. B., Tulane, 1892; Instr., Univ. of Texas, 1900-02.—Prof. History, Tulane Univ., New Orleans.

Horace Greeley Byers, A. B. and S. B., Westminster (Pa.), 1895. — Prof. Chem., Univ. of Wash., Seattle.

Joseph Scudder Chamberlain, (F), S. B., Iowa Agric., 1890; Instr., Oberlin, 1899-1901.—Chemist, Dept. of Agric., Washington.

Francis Whittemore Cragin, S. B., Harvard, 1882.—Prof. Geol., Colorado Coll., Colo. Springs.

George Vail Edwards, A. B., Hamilton, 1891.—Prof. Latin, Olivet Coll., Mich.

James Rees Ewing, A. B., Ohio Wesleyan, 1890.—Washington, D. C.

Oliver Lanard Fassig, S. B., Ohio State, 1882.— Section Director, U. S. Weather Bureau, Balt.; Assoc. Meteorology.

George Stronach Fraps, (F), N. C. A. and M. Coll. (S. B., 1896, Instr., 1899-03.—Asst. Chemist, Experiment Sta., Texas.

Pierre Joseph Frein, (F), A. B., Williams, 1892; Instr. and Asst. Prof., Stanford, 1899-03.—Prof. of Romance Lang., Univ. of Wash., Seattle.

Leonidas Chalmers Glenn, (F), S. C. Coll. (A. B., 1891, Assoc. Prof. and Prof., 1899-1900).—Adj. Prof. Geol., Vanderbilt.

Caswell Grave, (F), S. B., Earlham, 1895; Bruce Fellow, 1900-01.—Assoc. Zoology.

Nathaniel Edward Griffin, A. B., 1894; Instr., Iowa Univ., 1899-1900; Prof., Wells Coll., 1900-03; Instr. English, Univ. of Vt., 1903-04.

Karl Josef Grimm, (F), Rayner Fellow, 1899-1901.—Prof. Modern Lang. and Hebrew, Ursinus Coll., Collegeville, Pa.

Hollister Adelbert Hamilton, (F), A. B., Rochester, 1892; Lecturer, Bryn Mawr, 1899-1900.—Prof. Greek, Elmira Coll., N. Y.

Willis Boit Holmes, A. B., Harvard, 1896; Instr., Mass. Inst. Tech., 1899-1900.—Assoc. Chem., Univ. of Chicago.

George Oscar James, (F), A. B., 1895; Instr., Univ. of Utah, 1896-97; Lecturer and Assoc. Prof., Columbian, 1900-1902; Instr., Lehigh, 1902-03. —Instr. Math., Wash. Univ., St. Louis.

James William Kern, Univ. of Va., 1881.—Assoc. Prof. Latin, Wash. and Lee Univ., Lexington, Va.

George Philip Krapp, A. B., Wittenberg, 1894.—Tutor, English, Columbia.

William Kurrelmeyer, (F), A. B., 1896; Prof., Franklin and Marshall, 1899-1900.—Instr. German.

Alvin Fayette Lewis, A. B., Princeton, 1884; Prof. Hist., Univ. of Arkansas, 1899-1902.

Joseph Francis Merrill, (F), S. B., Mich., 1893.—Prof. Physics, Univ. of Utah, Salt Lake City.

Alfred William Milden, (F), A. B., Toronto, 1888.—Prof. Classics, Emory and Henry Coll., Emory, Va.

Walter Alexander Montgomery, A. B., 1892; Instr., Univ. of Ark., 1899-1900; Acting Prof., Miss. Univ., 1900-01.—Class. Master, Gram. Sch., Sewanee, Tenn.

Daniel Esten Motley, A. B., Milligan (Tenn.), 1894.—Washington, D. C.

Rokuro Nakaseko, Doshisha Univ., Tokyo, 1889; Yale (Fellow, 1899-1901, M. S., 1901).—Instr. Chem., Univ. of Kyoto.

William Albert Nitze, (F), A. B., 1894; Lecturer and Tutor, Columbia, 1899-1903.—Prof. Romance Lang., Amherst.

Frederick Albert Saunders, (F), A. B., Toronto, 1895; Instr., Haverford, 1899-1901.— Assoc. Prof. Physics, Syracuse Univ., N. Y.

Laurence Frederick Schmeckebier, (F), A. B., 1896.—U. S. Geol. Survey, Wash.

St. George Leakin Sioussat, A. B., 1896; Instr., Smith Coll., 1899-04.—Prof. Hist., Univ. of the South, Sewanee, Tenn.

Rev. Charles William Sommerville, A. B. and S. B., Hampden-Sidney, 1890; Lectr., 1900-1901.—Clergyman, Balt.

Mervin Tubman Sudler, S. B., Md. Agric., 1894; M. D., Coll. P. and S., Balt., 1901; Asst. and Instr., 1899-1902.—Instr. Anat., Med. Dept., Cornell Univ., N. Y.

*Morris Crater Sutphen, A. B., Princeton, 1890; Instr. Latin, 1899-1901. **August* 31, 1901.

William Taylor Thom, A. B., Wash. and Lee, 1869.—Washington, D. C.

Harold John Turner, A. B., 1892; Prof., Western Md., 1900-01.—Asst. Chem., Tufts Coll., Mass.

Campbell Easter Waters, A. B., 1895; Prof., Conn. Agric., 1900-01.—Asst. Chemistry.

Henry Skinner West, (F), A. B., 1893; Prof., Balt. City Coll., 1894-97 and 1900; Instr. English, 1899-1900. —Principal, Western High School, Balt.

Francis Daniel Wilson, S. B., Va. Polytech., 1894; Asst., Tufts, 1899-1900.—Instr. Chem., Va. Polytechnic, Blacksburg.

James Henry Curry Winston, A. B. and S. B., Hamp.-Sidney, 1894.—Adj. Prof. Phys. Science, Hampden-Sidney, Va. (42)

1900

Homer Van Valkenburg Black, A. B., Univ. of Ga., 1896.—Asst. Chem., Ga. School of Tech., Atlanta.

William Martin Blanchard, (F), A. B., Rand.-Macon, 1894; Instr.. Rose Polytech., 1900-01.—Prof. Chem., DePauw, Greencastle, Ind.

Hall Canter, A. B., Rand.-Macon, 1892. —Prof. Chem., Rand.-Macon, Ashland, Va.

Charles Edward Caspari, (F), A. B., 1896; Asst., Columbia, 1900-01.—Prof. Chem., St. Louis Coll. of Pharm.

Hardee Chambliss, Va. Mil. Inst., 1894; M. S., Vanderbilt, 1899.—Research Chemist, General Chem. Co., N. Y.

William Sidney Drewry, A. B., Va., 1893.—Instr. Hist., Mo. Univ., Columbia.

James Edwin Duerden, Assoc., Royal Coll. of Sci., London, 1889; Curator, Inst. of Jamaica, 1895-1901; Bruce Fellow, 1901-02; Acting Prof., Univ. of N. C., 1902-03.—Acting Prof. Zool., Univ. of Mich.

Luther Pfahler Eisenhart, (F), A. B., Pa. Coll., 1896. — Instr. Math., Princeton.

Herbert Baldwin Foster, (F), A. B., Harvard, 1895; Acting Prof., St. Stephen's, 1900-01. — Prof. Greek, Univ. of S. Dak., Vermillion.

William Linwood Foushee, (F), A. M., Wake Forest, 1894; Acting Prof., Mercer, 1900-01.—Prof. Latin, Richmond Coll.

Wightman Wells Garner, A. B., S. C. Coll., 1896.— Asst. Chem., Tufts Coll., Mass.

Clyde Chew Glascock, (F), Univ. of Va., 1892.—Instr. German, Yale.

Lawrence Edmonds Griffin, (F), A. B. and Ph. B., Hamline, 1895; Bruce Fellow, 1900; Instr., Adelbert, 1900-02.—Prof. Biol., Mo. Valley Coll., Marshall.

Rev. Adolph Guttmacher, A. B., Cincinnati, 1887.—Rabbi, Balt.

Sivert N. Hagen, (F), A. B., Luther, 1896.—Instr. English, Iowa Univ., Iowa City.

Joseph Cawdell Herrick, (F), A. B., Va., 1896.—Instr. Sciences, St. Joseph's Sem., Yonkers, N. Y.

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William Bashford Huff, A. B., Wis., 1889; A. M., Chicago, 1896; Asst. and Instr., 1900-02.—Assoc. Physics, Bryn Mawr.

*Julian Huguenin, (F), A. B., Charleston, 1895; Acting Prof. English, Univ. of La., 1900-1901. **February* 19, 1901.

Walter Hullihen, (F), A. B., Va., 1896. —Classical Master, Univ. Sch., Balt.

Robert Edmund Humphreys, A. B., Emory and Henry, 1889.—Chemist, Standard Oil Co., Whiting, Ind.

Charles Ranald MacInnes, Queen's (A. M., 1896, Instr., 1900-02); Lecturer, Math., Manitoba Coll., 1902-03.—Director of Gymnasium.

William Starr Myers, A. B., N. C. Univ., 1897.—Hist. Master, Country School, Balt.

John Charles Olsen, (F), A. B., Knox, 1890.—Asst. Prof. Chem., Brooklyn Polytech.

Austin McDowell Patterson, A. B., Princeton, 1897; Instr., Centre Coll., 1900-01; Instr. Chem., Rose Polytech., 1901-03.—Springfield, Mass.

Louis Maxwell Potts, A. B., Wash. and Jeff., 1896.—Electrician, Balt.

George Lovic Pierce Radcliffe, A. B., 1897; Instr. Hist., Balt. City Coll., 1901-02.—Atty. at Law, Balt.

Albert Moore Reese, A. B., 1892; Prof., Allegheny, 1901-02.— Assoc. Prof. Histol., etc., Syracuse Univ., N. Y.

Herbert Meredith Reese, (F), A. B., 1897; Asst., Lick Observ., 1900-03. —Asst., Yerkes Observ., Williams Bay, Wis.

Rev. William Rosenau, A. B., Cincinnati, 1888.—Rabbi, Balt.; Assoc. Hebrew.

*Richard Burton Rowe, (F), Ph. B., Union, 1896; U. S. Geol. Survey, 1900-02. **May* 26, 1902.

James Eustace Shaw, (F), A. B., 1896. —Assoc. Italian.

Ernest Ashton Smith, A. B., Ohio Wesleyan, 1888.— Prof. Hist. and Econ., Allegheny Coll., Meadville, Pa.

Elisha Chisholm Walden, A. B., Ohio Wesleyan, 1892.—Webb City, Mo.

Charles Clinton Weaver, (F), A. B., Trinity, N. C., 1895; Pres., Rutherford Coll., 1900-03.— Prof. Hist., Davenport Coll., Lenoir, N. C. (35)

1901

Herbert Thompson Archibald, (F), A. B., Dalhousie, 1897.—Prof. Greek, Occidental Coll., Los Angeles, Cal.

George Ernest Barnett, (F), A. B., Rand.-Macon, 1891.— Instr. Polit. Econ.

Robert Montgomery Bird, A. B., Hampden-Sidney, 1897; Asst. Prof., Miss. Agric., 1901-02.—Acting Prof. Agric. Chem., Univ. of Mo., Columbia.

Jay Allan Bonsteel, S. B., Cornell, 1896.—Geologist, Dept. of Agric., Washington.

Lyman James Briggs, S. B., Mich. Agric., 1893; M. S., Mich. Univ., 1895. — Physicist, Dept. of Agric., Washington.

George Dobbin Brown, (F), A. B., 1895; Acting Prof., Univ. of Vt., 1901-02.—Instr. English, Balt.

Benjamin Palmer Caldwell, (F), Tulane (A. B., 1893, B. E., 1895, Ch. E., 1897).—Asst. Prof. Chem., Tulane, New Orleans.

Victor John Chambers, S. B., Rochester, 1895.—Tutor, Organ. Chem., Columbia.

William Chambers Coker, S. B., S. C. Coll., 1894.—Assoc. Prof. Botany, Univ. of N. C., Chapel Hill.

Winterton Conway Curtis, (F), A. B., Williams, 1897.—Instr. Zool., Univ. of Mo., Columbia.

Waverley Bayard Daniel, (F), A. M., Wake Forest, 1892.—Prof. Latin, Baylor Univ., Waco, Texas.

James McDowell Douglas, A. B., Davidson, 1893.—Instr. Chem., Davidson Coll., N. C.

Rev. Arthur Henry Ewing, (F), A. B., Wash. and Jeff., 1887; Western Theol. Sem. (Pa.), 1890.—Prof., Christian Coll., Allahabad, India.

James Marion Farr, A. B., Davidson, 1894.— Prof. English, Fla. Univ., Lake City.

Joseph Christie Whitney Frazer, (F), S. B., Ky. State, 1897; Asst. Chem., 1901-03.— Research Asst., Carnegie Inst.; Fellow by Courtesy.

Rev. Francis LeJau Frost, S. T. B., Gen. Theol. Sem. (N. Y.), 1897.— Clergyman, West New Brighton, N. Y.

Norman Everett Gilbert, (F), A. B., Wesleyan, 1895; Instr., Hobart, 1901-03.—Asst. Prof. Physics, Dartmouth, Hanover, N. H.

Roscoe Guernsey, (F), A. B., Union, 1896; Instr., 1901-03.—Tutor, Greek, Columbia.

Fred Cole Hicks, (F), Ph. B., Cornell Coll., 1896.—Instr. German, Monmouth Coll., Ill.

Gilbert Logan Houser, S. B., Iowa Univ., 1891.—Prof. Animal Morphol., etc., Iowa Univ., Iowa City.

Norton Adams Kent, A. B., Yale, 1895; Asst., Yerkes Observ., 1901-03.—Prof. Physics, Wabash, Crawfordsville, Ind.

George Curtis Martin, (F), S. B., Cornell, 1898.—Instr. Paleontology.

William Elejius Martin, (F), A. M., Southern Univ., 1898.—Prof. Hist., Emory and Henry Coll., Emory, Va.

Jens Anderson Ness, (F), A. B., Luther, 1884.—Baltimore.

Francis LeJau Parker, Jr., S. C. Mil. Acad., 1894; S. B., Chicago, 1900.—Prof. Chem., Charleston Coll., S. C.

Harold Pender, A. B., 1898; Instr. Physics, Syracuse Univ., 1902-03.—Electrician, Pittsburg.

Israel Euclid Rabinovitch, (F).—New York.

George Burr Richardson, (F), S. B., Harvard, 1895.—U. S. Geol. Survey, Wash.

Charles Carroll Schenck, A. B., 1893; Asst., Lehigh, 1901-02.—Instr. Physics, McGill Univ., Montreal.

Ward Weaver Simmons, S. B., Brooklyn Polytech., 1897.—Brooklyn, N. Y.

(30)

1902

Frank Ringgold Blake, (F), A. B., 1897.—Instr. Oriental Lang.

George Cator, A. B., 1901.—Baltimore.

Friend Ebenezer Clark, W. Va. Univ. (S. B., 1898, Instr., 1902-03).—Instr. Chem., Pa. State Coll.

Arthur Byron Coble, (F), A. B., Pa. Coll., 1897; Instr. Math., Mo. Univ., 1902-03.—Research Asst., Carnegie Inst.; Fellow by Courtesy.

Albert Eugene Curdy, (F), A. B., Kansas, 1885.—Instr. French, Yale.

Theodore Clinton Foote, A. B., Racine, 1880; S. T. B., Gen. Theol. Sem. (N. Y.), 1884; Rayner Fellow, 1901-03.—Instr., Bibl. Lit.

James Warner Harry, (F), A. B., Georgetown (Ky.), 1899.—Baltimore.

Herman Kurrelmeyer, (F), A. B., 1899.—Instr. Mod. Lang., Mass. Inst. Tech.

Charles Fowler Lindsay, (F), A. B., Dalhousie, 1899.—Research Chemist, Gen. Elec. Co., Schenectady.

Louis Wardlaw Miles, (F), A. B., 1894; M. D., Univ. of Md., 1897.—German Master, Country School, Balt.

Louis Alexander Parsons, (F), A. B., Iowa Univ., 1895; Asst., 1902-03.—Instr. Physics, Univ. of Utah, Salt Lake City.

Henry Farnham Perkins, A. B., Vermont, 1896.—Asst. Prof. Biol., Univ. of Vt., Burlington.

Charles Snavely, A. B., Otterbein, 1894.—Prof. Hist., Otterbein, Westerville, Ohio.

Percy Goldthwait Stiles, (F), S. B., Mass. Inst. Tech., 1897; Asst., 1900-02.—Instr. Physiol., N. Y. Univ.

William Stone Weedon, (F), S. B., Md. Agric., 1897.—Research Chemist, Gen. Elec. Co., Schenectady.

John Boswell Whitehead, Jr., Profic. in Elec., 1893, A. B., 1898.—Assoc. Electricity.

Kisaburo Yamaguchi, (F), Tokyo Coll. of Sci., 1891.—Chemist, Furukawa Central Office of Mines, Tokyo. (17)

1903

LeRoy Carr Barret, (F), A. B., Wash. and Lee, 1897.—Instr. Latin.

Elbert Jay Benton, (F), A. B., Campbell Univ., 1895.—Instr. Hist., Western Reserve Univ., Cleveland.

George Olaf Berg, (F), A. B., St. Olaf Coll., 1899.—Acting Prof. Greek, St. Olaf, Northfield, Minn.

Benjamin Franklin Carver, S. B., Pa. Coll., 1900.—Chemist, Standard Oil Co., Whiting, Ind.

Henry Augustus Converse, A. B., Hampden-Sidney, 1893.—Instr. Math.

Rev. John P. Coony.—Asst. Chem., St. Louis Univ., Mo.

Frank Linley Critchlow, A. B., Princeton, 1896.—Instr. French, Princeton.

Charles Keyser Edwards, (F), A. B., 1897.—Prof. Physics, Christian Coll., Macao, China.

Philip Howard Edwards, (F), A. B., St. John's, 1898.—Classical Master, Friends' School, Balt.

Frederick Hutton Getman, (F).—Research Asst. Chem., Carnegie Inst.

William Elford Gould, A. B., Columbia, 1879.—Baltimore.

Philip Warner Harry, A. B., 1898.—Instr., Romance Lang., Univ. of Cincinnati.

Yukimasa Hattori, (F), Tokyo Coll. of Sci., 1898.

John Gale Hun, (F), A. B., Williams, 1899.—Instr. Math., Princeton.

Albert Johannsen, (F), S. B., Univ. of Utah, 1898.—U. S. Geol. Survey, Wash.

Thomas Madison Jones, A. B., Rand.-Macon, 1894.—Prof. Latin, Rand.-Macon, Ashland, Va.

George Wiles Middlekauff, A. B., Franklin and Marshall, 1891.—Physicist, Bureau of Standards, Wash.

Benjamin Leroy Miller, (F), A. B., Kansas Univ., 1897; A. M., Penn Coll.. 1898.— Assoc. Geol., Bryn Mawr, Pa.

Joseph Haines Moore, A. B., Wilmington (O.), 1897.—Asst., Lick Observatory, Cal.

Alfred James Morrison, (F), A. B., Hampden-Sidney, 1895. — Brooklyn, N. Y.

Roland Jessup Mulford, (F), Harvard (A. B., 1893, LL. B., 1896).—Head Master, Cheshire School, Conn.

John David Rodeffer, A. B., Roanoke, 1895.—Instr. Engl., Balt. City Coll., 1903-04.

Henry Nevill Sanders, (F), A. B., Trinity (Ont.), 1894; Lecturer, McGill, 1898-01.—Assoc. Prof. Greek, Bryn Mawr, Pa.

Charles Albert Savage, A. B., 1895.—Asst. Prof. Latin, Univ. of Minn., Minneapolis.

Atherton Seidell, Univ. of Ga. (B. Agr., 1898, S. B., 1899); M. S., Columbian, 1901.— Chemist, Bureau of Soils, Dept. of Agric., Wash.

Daniel Naylor Shoemaker, (F), S. B., Earlham, 1894, Asst., Zool., 1900-01.—Science Instr., Hartsville Seminary, S. C.

Arthur Whitmore Smith, (F), S. B., New Hampshire, 1893.—Asst. Physics, Univ. of Mich. (27)

Doctors of Medicine

When the institution is not named, this university or the Johns Hopkins Hospital is to be understood. (F) indicates that the person has held a fellowship here. *—Died.

1897

Charles Russell Bardeen, A. B., Harvard, 1893.—Assoc. Prof. Anatomy.

Thomas Richardson Brown, A. B., 1892. —Physician, Balt.; Assoc. Prof., Coll. of P. and S.; Chief, Med. Clinic; Instr. Medicine.

*Walter S. Davis, S. B., Amherst, 1893. **September* 27, 1898.

Louis Philip Hamburger, A. B., 1893.— Physician, Balt.; Clin. Asst.; Instr. Medicine.

Guy LeRoy Hunner, S. B., Wis.,1893.— Physician, Balt.; Assoc. Gynecology.

Irving Phillips Lyon, A. B., Yale, 1893. —Physician, Buffalo; Pathologist, Eye, Ear, and Throat Hosp.; Instr. Clin. Med., Univ. of Buffalo.

William George MacCallum, A. B., Toronto, 1894.—Res. Pathologist; Assoc. Prof. Pathol.

Charles Neil McBryde, S. B., Univ. of S. C., 1891; M. S., Va. Polytech., 1892. — Asst., Bacteriol., Dept. of Agric., Washington.

James Farnandis Mitchell, A. B., 1891, Instr., Surgery, 1900-02.—Physician, Washington; Prof. Surg. Pathol., Columbian.

Joseph Longworth Nichols, (F), A. B., Harvard, 1893.—Saranac Lake, N. Y.

Eugene Lindsay Opie, (F), A. B., 1893. —Assoc. Pathology.

Mary Secord Packard, A. B., Vassar, 1892.—Physician, Providence, R. I.

Omar Borton Pancoast, S. B., Swarthmore, 1893.—Physician, Balt.; Clin. Asst. Surgery.

Clement Andariese Penrose, A. B., 1893. —Physician, Balt.

Richard Pearson Strong, Ph. B., Yale, 1893.—Director, Biol. Lab., U. S. A., Manila. (15)

1898

William Stevenson Baer, A. B., 1894. —Physician, Balt.; Clin. Asst.; Instr. Orthopædic Surg.

William Jeptha Calvert, A. B., Ky. Univ., 1893.—Asst. Prof. Med., Univ. of Mo., Columbia.

Patrick Joseph Cassidy, A. B., Yale, 1894.—Physician, New London, Conn.

John Williams Coe, Ph. B., Yale, 1893. —Instr. Clin. Pathol., Cornell, N. Y.

Percy Millard Dawson, (F), A. B., 1894.—Assoc. Physiology.

Arthur Wells Elting, A. B., Yale, 1894. —Physician, Albany, N. Y.; Lecturer, Surg. Pathol., Albany Med. School.

William Weber Ford, A. B., Adelbert, 1893; Fellow, McGill, 1899-1901, and Rockefeller Inst., 1901-02.— Instr. Bacteriol.

Thomas Wood Hastings, A. B., 1894. —Physician, N. Y.; Instr. Clin. Pathol., Cornell.

Alfred Birch Herrick, A. B., Williams, 1894.—Res. Surgeon, Barnes Hosp., Wash.

James Hall Mason Knox, Jr., Yale (A. B., 1892, Ph. D., 1894); A. M., Lafayette, 1896.—Physician, Balt.; Clin. Asst.; Asst. Pediatrics.

Millard Langfeld, A. B., 1893.—Physician, Omaha; Prof. Bacteriol., etc., Creighton Med. Coll.

Gertrude Light, S. B., Wis., 1894.— Physician, N. Y.; Clin. Asst., Bellevue Hosp.

James Daniel Madison, S. B., Wis., 1894. — Physician, Milwaukee; Adjunct to Chair of Med., Wis. Coll. of P. and S.

Harry Taylor Marshall, (F), A. B., 1894.— Asst. Pathology and Instr. Med.

Roger Griswold Perkins, A. B., Union, 1893, and Harvard, 1894.— Asst. Pathol., and Lecturer, Bacteriol., Western Reserve Univ., Cleveland.

Katherine Porter, A. B., Bryn Mawr, 1894.—Physician, Orange, N. J.; Asst. Surg., N. Y. Infirmary for Women.

Joseph Hersey Pratt, Ph. B., Yale, 1894; A. M., Harvard, 1901.—Asst. Theory and Prac. of Physic, Harvard; vard; Physician, Boston.

Georgiana Sands, A. B., Vassar, 1893. —Physician, Port Chester, N. Y.

Benjamin Robinson Schenck, A. B., Williams, 1894; Instr. Gynecol., 1902-03.—Physician, Detroit.

Walter Ralph Steiner, A. B., Yale, 1892.—Physician, Hartford, Conn.; Pathologist and Bacteriologist, Hartford Hosp.

Emma Elizabeth Walker, A. B., Smith, 1887.—Physician, N. Y.; Clin. Asst., Hosp. for Ruptured and Crippled.

Andrew Henderson Whitridge, S. B., Harvard, 1894.— Physician, Balt.; Clin. Asst. Medicine. (22)

1899

Edward Erle Brownell, Ph. B., Yale, 1895.—Physician, San Francisco, Cal.

Humphrey Warren Buckler, A. B., 1895.—Physician, Balt.; Clin. Asst.; Asst. Obstetrics.

Rufus Ivory Cole, S. B., Mich., 1896. —Asst. Res. Physician; Instr. Medicine.

John Staige Davis, Ph. B., Yale, 1895. —Physician, Balt.; Clin. Asst. Surg.

Charles Phillips Emerson, A. B., Amherst, 1894.—Asst. Res. Physician, Clin. Lab.; Assoc. Medicine.

Blanch Nettleton Epler, S. B., Univ. of Cal., 1895.—Physician, Kalamazoo, Mich.

Joseph Erlanger, (F), S. B., Univ. of Cal., 1895.—Assoc. Physiology.

Philip Saffery Evans, Jr., A. B., Yale, 1895.— Med. Missionary, Yangchow, China.

Richard Holden Follis, Jr., Ph. B., Yale, 1895.—Res. Surgeon; Instr. Surgery.

Frank Taylor Fulton, S. B., Knox, 1894; A. B., 1895.—Pathologist and Director, Pathol. Lab., R. I. Hosp., Providence; Instr., Brown Univ.

*James Daton Gallagher, A. B., 1895. *April 1, 1901.

Henry Harris A. B., Stanford, 1895. —Physician, San Francisco; Asst. Med., Cooper Med. Coll.

Henry Joseph Hoye, A. B., Brown, 1895.—Physician, Providence.

Louis Williams Ladd, A. B., Yale, 1895.— Lecturer, Western Reserve Univ.

Charles Sumner Little, A. B., Wabash, 1894.—Demonstr. Pathol., Coll. of P. and S., and Physician, Indianapolis.

John Arthur Luetscher, S. B., Wis., 1895.—Physician, Balt.; Clin. Asst.

Frank Allemong Lupton, S. B., Ala. Polytech., 1891.—Physician, and Prof. Clin. Micros., Birmingham Med. Coll., Ala.

Frank Worthington Lynch, A. B., Adelbert, 1895; Assoc. Obstetrics, 1900-03.—Univ. of Chicago.

Chester Lea Magee, A. B., Stanford, 1895.—Physician, San Diego, Cal.

Hugh Miller Moore, S. B., Miami, 1895. —Physician, Oxford, O.; Med. Director, Miami Univ.

Charles Williams Ottley, A. B., Princeton, 1893.—Prof., Biol., Robert Coll., Constantinople, Turkey.

Paul Octavius Owsley, Ph. B., Yale, 1895.— Physician, Chicago; Instr., Northwestern Med. School.

Jacob Hall Pleasants, Jr., A. B., 1895. —Physician, Balt.; Assoc. Prof., Coll. of P. and S.; Clin. Asst.; Asst., Medicine.

Sylvan Rosenheim, A. B., 1895.—Physician, Balt.; Demonstr., Coll. of P. and S.; Clin. Asst.; Asst., Laryngology.

John Albertson Sampson, A. B., Williams, 1895.—Resident Gynecologist.

Halbert Severin Steensland, S. B., Wis., 1895.—Director, Pathol. Lab., Syracuse Univ., N. Y.

William Ridgely Stone, A. B., Princeton, 1895.—Asst. Obstetrician, Blackwell's Island Hosp.; Asst. Physician, Cornell Univ. Disp., N. Y.

Edgar Randolph Strobel, A. B., 1895.— Physician, Balt.; Clin. Prof., Balt. Med. Coll.; Clin. Asst.; Asst., Dermatology.

Frederick Herman Verhoeff, Ph. B., Yale, 1895; Harvard (A. M., 1902, Asst., 1901-02.)— Pathologist, Mass. Eye and Ear Infirmary, Boston.

William Whitridge Williams, A. B., 1895; Asst., Pathology, Harvard, 1901-03.—Mass. Gen. Hosp., Boston.

Sarah Delia Wyckoff, S. B., Wellesley, 1894.—Physician, Wilkesbarre, Pa.

John Lawrence Yates, Ph. B., Yale, 1894; S. B., Wis., 1895; Asst., 1901-02.—Physician, Chicago. (32)

1900

Joseph Akerman, A. B., Ga., 1894.—Supt., Walker Memorial Hosp., Wilmington, N. C.

Herbert Williams Allen, S. B., Univ. of Cal., 1896.—Physician, San Francisco.

Mabel Fletcher Austin, S. B., Minnesota, 1896.—Pathologist, N. E. Hosp., Boston.

Alma Emerson Beale, A. B., Wellesley, 1891.—Physician, Schaghticoke, N. Y.

*Milton Bettmann, A. B., Harvard, 1897. **May*, 1902.

Evelyn Briggs, A. B., Stanford, 1896.—Physician, Sacramento, Cal.

Lawrason Brown, A. B., 1895.—Physician, Saranac Lake, N. Y.

Herman Brülle, A. B. and S. B., Hampden-Sidney, 1895.—Clin. Asst.; Physician, Balt.

Curtis Field Burnam, A. B., Central (Ky.), 1895.—Asst. Res. Gynecologist.

Arthur Smith Chittenden, A. B., Yale, 1896.—Physician, N. Y.; Asst., Pathol., Columbia.

Henry Asbury Christian, A. B. and A. M., Rand.-Macon, 1895.—Instr., Pathol., Harvard.

William Remshart Dancy, S. B., Ga., 1896.—Physician, Savannah, Ga.

Frank Curtiss Davis, A. B., Amherst, 1895.—Physician, Rochester, Minn. (*Degree granted December* 4, 1899.)

Augustus Hartje Eggers, Ph. B., Yale, 1896.—Physician, Ambridge, Pa.

Henry Courtney Evans, A. B., Adelbert, 1896.—Interne, Western Pa. Hosp., Pittsburg.

Rose Fairbank, A. B., Smith, 1895.—Hosp. Physician, Jhansi, N. W. P., India.

Clarence B. Farrar, A. B., Harvard, 1896.—Asst. Physician, Sheppard Hosp.; Clin. Asst., Neurology.

Arthur Lawrence Fisher, S. B., Univ. of Cal., 1896.—Physician, San Francisco.

William Alexander Fisher, Jr., A. B., Princeton, 1896.—Clin. Asst.; Physician, Balt.

Howard Fletcher, A. B., Rand.-Macon, 1895.—Physician, Richmond, Va.

Joseph Marshall Flint, Chicago (S. B., 1895, Assoc., 1900-01).—Prof., Anatomy, Univ. of Cal., Berkeley.

William Patrick Healy, Ph. B., Yale, 1896.—Physician, N. Y.

*William Faithful Hendrickson, A. B., 1896; Asst. Demonstr., Pathol., Univ. of Pa., 1900-02. **August* 21, 1902.

Albion Walter Hewlett, S. B., Univ. of Cal., 1895.—Physician, San Francisco.

William Crissey Kellogg, A. B., Yale, 1896.—Physician, Augusta, Ga.; Asst. Pathol., Univ. of Ga.

Preston Kyes, A. B., Bowdoin, 1896.—Fellow, Rockefeller Inst.; Instr. Anat., Univ. of Chicago.

Leona Lebus, S. B., Wellesley, 1889.—Physician, Los Angeles, Cal.

Warren Harmon Lewis, S. B., Mich., 1896.—Assoc. Anatomy.

Harry Wilson Little, S. B., Wabash, 1896.—Physician, Evansville, Ind.

Ellen Louise Lowell, A. B., Stanford, 1896.—Physician, N. Y.

John Bruce MacCallum, A. B., Toronto, 1896; Asst., 1900-02.—Asst., Physiol., Univ. of Cal., Berkeley.

Mary Wilbur Marvell, S. B., Wellesley, 1894.—Physician, Fall River, Mass.

Clara Meltzer, A. B., Barnard, 1896.—Clin. Asst., Eye and Ear Infirmary, N. Y.

Clelia Duel Mosher, A. B., Stanford, 1893.—Physician, Palo Alto, Cal.

Hannah Glidden Myrick, A. B., Smith, 1896.—Physician, Dorchester, Mass.

*Edward Spiller Oliver, A. B., 1895. **March* 18, 1902.

Richard Foster Rand, Ph. B., Yale, 1895.—Physician, New Haven, Conn.

Dorothy M. Reed, (F), B. L., Smith, 1895.—Res. Phys., Babies' Hosp., N. Y.

Glanville Yeisley Rusk, A. B., 1896; Asst. Psychiatry, 1902-03.—Pathol. Inst., Ward's Island, N. Y.

Florence Rena Sabin, S. B., Smith, 1893.—Assoc. Anatomy.

William Francis Mattingly Sowers, A. B., Princeton, 1896.— Asst. Res. Surgeon.

Ellen Appleton Stone, A. B., Radcliffe, 1895; A. M., Brown, 1896.—Phys., Providence.

Mortimer Warren, A. B., Bowdoin, 1896.—Physician, N. Y.

Paul Gerhardt Woolley, S. B., Chicago, 1896; Fellow, McGill Univ., 1901-02. —Pathologist, Biol. Lab. U. S. A., Manila. (44)

1901

*Alexander Montague Atherton, A. B., Wesleyan, 1897. **August* 28, 1903.

Frederick Harry Baetjer, A. B., 1897. —Asst. Res. Surg.; Asst., Surgery.

William Dwight Baldwin, A. B., Yale, 1897.—House Phys., St. Luke's Hosp., N. Y.

John McWilliams Berry, S. B., Cornell, 1897.—Physician, Albany, N. Y.

Walter Herbert Blakeslee, A. B., Amherst, 1897.—Asst. Med. Examiner, Pa. R. R. (Relief Dept.), Phila.

Horace Dechamps Bloombergh, A. B., Lafayette, 1897.—First Lieut. and Asst. Surgeon, U. S. A., Manila.

Thomas Richmond Boggs, S. B., Ga., 1896.—Physician, Palm Beach, Fla.

John Robert Bosley, A. B., Western Md., 1896.—1st Lieut. and Asst. Surgeon U. S. A., Washington.

Charles Henry Bunting, S. B., Wis., 1896.—Asst. Pathol.; Asst. Res. Pathologist.

Joel Ives Butler, Ph. B., Yale, 1897. —House Officer, Mass. Gen. Hosp., Boston.

Harry Wardell Carey, A. B., Yale, 1897.—Instr. Pathol., Albany Med. School.

Eleanor Sarah Chace, S. B., Wellesley, 1894.—Physician, Fall River, Mass.

Robert Thornton Comer, A. B., Univ. of Ala., 1896.—Physician, Birmingham, Ala.

Guy Leartus Connor, A. B., Williams, 1897.—Physician, Detroit, Mich.

Ray Connor, A. B., Williams, 1897.— Physician, Detroit, Mich.

George Silas Drake, Jr., A. B., Yale, 1897.—Res. Phys., Union Prot. Infirmary, Balt.

Adelaide Dutcher, S. B., Wis., 1897. —Physician, Syracuse, N. Y.

Henry Atwood Fowler, S. B., Minnesota, 1895.—Physician, Washington.

Frederick Parker Gay, A. B., Harvard, 1897. — Fellow, Rockefeller Inst.; Asst. Demonstr., Pathol., Univ. of Pa.

Neil Duncan Graham, A. B., 1897.— Physician, Wash.; Asst., Obstetrics, Howard Univ.

Gardner Wells Hall, A. B., Harvard, 1898.—Physician, Boston.

Louis Virgil Hamman, A. B., Rock Hill, 1896.—Physician, Balt.; Clin. Asst.; Asst. Med.

Rolland Frederick Hastreiter, S. B., Wis., 1897.—Physician, Milwaukee.

Joseph Henry Hathaway, A. B., Iowa Coll., 1894, and Harvard, 1896.— Res. Phys., Hosp. for Women, Boston.

James Morley Hitzrot, A. B., Princeton, 1897.—House Surg., N. Y. Hosp.

Gerry Rounds Holden, A. B., Yale, 1897.—Asst. Res. Gynecologist.

Edward Hicks Hume, A. B., Yale, 1897; John W. Garrett Internal. Fellow, Liverpool, 1901-02.—Physician, Bombay, India.

William Bernard Johnston, A. B., Harvard, 1897.—Physician, Washington.

Harry M. Kauffman, A. B., 1897.— Physician, Washington.

Theodore Lamson, Ph. B., Yale, 1897. —1st Lieut. and Asst. Surg. U. S. A., Washington.

Dwight Milton Lewis, A. B., Yale, 1897.—Student, Berlin.

Warfield Theobald Longcope, A. B., 1897.—Director, Ayer Clin. Lab., Pa. Hosp., Philadelphia.

William Harvey Maddren, S. B., Brooklyn Polytech., 1896. — Physician, Brooklyn; Asst. Visiting Surgeon, King's Co. Hosp.

Elizabeth Sutton Moore, S. B., Wilson Coll. (Pa.), 1895.—Physician, Pittsburg.

Henry Pickering Parker, A. B., 1896. —Interne, Union Prot. Infirm., Balt.

Maurice J. Rubel, S. B., Chicago, 1897. —Physician, Chicago.

John Cleveland Salter, A. B., Yale, 1897. —House Phys., St. Luke's Hosp., N. Y.

Mabel Palmer Simis, S. B., Cornell, 1897.—Physician, Minneapolis. (Mrs. H. L. Ulrich.)

Josiah Morris Slemons, A. B., 1897.— Res. Obstetrician; Asst., Obstetrics.

Herbert Meloy Smith, A. B., Roanoke, 1892.—First Lieut. and Asst. Surg., U. S. A., Manila.

Charles Nelson Spratt, S. B., Minnesota, 1897.—House Surg., Mass. Eye and Ear Infirmary, Boston.

Albert Louis Steinfeld, A. B., 1897.— Lecturer, Histol. and Pathol., Toledo Med. Coll.; Physician, Toledo, O.

Carlotta Mary Swett, A. B., Wellesley, 1896.—Physician, Bangor, Me.

Henry Ludwig Ulrich, S. B., Rutgers, 1897; Prof., Univ. of Dallas, Texas, 1901-02. — Physician, Minneapolis; Asst. Clin. Micros., Univ. of Minn.; Pathologist, Swedish Hosp.

Albert James Underhill, A. B., 1897. — Physician, Balt.; Clin. Asst., Medicine.

Marian Bartholow Walker, A. B., Radcliffe, 1898. — Physician, Hartford, Conn. (Mrs. Marian W. Williams.)

Louis Marshall Warfield, A. B., 1897. —.Physician, Savannah, Ga.

George William Warren, A. B., 1897. —Physician, New York.

Stephen Hurt Watts, A. M., Rand.-Macon, 1896.—Asst. Res. Surgeon.

Ernest Alden Wells, A. B., Yale, 1897. Physician, Hartford, Conn.

Mabel Wells, A. B., Wellesley, 1896.— Physician, Monticello, Ark.

John Montgomery West, A. B., 1896. —Student, Vienna.

Charles Knickerbacker Winne, Jr., A. B., 1897.— Asst., Bender Hygienic Lab., Albany, N. Y. (53)

1902

John Auer, S. B., Mich., 1898.—Fellow, Rockefeller Inst.; Physician, N. Y.

John Bradford Briggs, Jr., S. B., N. Y. Univ., 1898; Asst. Med., 1903.

Bennet Bernard Browne, A. B., 1898. —Physician, Balt.; Clin. Asst.; Asst., Eye, Ear, and Throat Hosp.

Robert Martin Bruns, A. B., Va., 1896. —Physician, Balt.

William Morgan Case Bryan, A. B., Wash. Univ., 1897; M. S., Mich., 1898.— Res. Phys., German Hosp., Philadelphia.

Camillus Bush, S. B., Univ. of Cal., 1898.—Asst. Res. Surgeon.

John Woolman Churchman, A. B., Princeton, 1898.—Physician, Balt.

Thomas Wood Clarke, A. B., Harvard, 1899.—Res. Phys., Lakeside Hosp., Cleveland.

Henry Wireman Cook, A. B., 1898.— Physician, Richmond. Va.

John Jacob Jones Coons, S. B., Ohio Wesleyan, 1898.— Asst. Res. Surg., Kensington Hosp., Philadelphia.

Gustavus Charles Dohme, A. B., 1898. —Physician, Balt.

David Hough Dolley, A. B., Rand.-Macon, 1897.— Resident Pathologist, Lakeside Hospital, Cleveland; Asst. Demonstr., Pathol. Western Reserve Univ.

Ralph Duffy, A. B., 1898.—Pathologist, West. Pa. Hosp., Pittsburg.

John Dunlop, S. B., Princeton, 1898. —Interne, Orthopedic Hosp., Boston.

William Gage Erving, A. B., Yale, 1898. —Physician, Boston.

Newell Simmons Ferry, Ph. B., Yale, 1898.—Physician, Memphis, Tenn.

Nellis Barnes Foster, S. B., Amherst, 1898.—Asst. Res. Phys., N. Y. Hosp.

William Willoughby Francis, A. B., 1898.—Res. Phys., Royal Victoria Hosp., Montreal.

Maurice Albert Frankenthal, A. B., Wash. Univ., 1898.— Res. Phys., Jewish Hosp., St. Louis.

W. Harry Glenny, Ph. B., Yale, 1894. —Physician, Buffalo.

Clarence Foster Hardy, B. L., Wis., 1891.—Physician, Milwaukee.

Morrison LeRoy Haviland, Ph. B., Union, 1898. — Physician, Glen's Falls, N. Y.

Mabel Stevens Haynes, A. B., Bryn Mawr, 1898.—Physician, Boston.

Leonard Keene Hirshberg, A. B., 1898. —Physician, Balt.; Assoc., Neurol., Coll. of P. and S.; Chief. of Nerv. Clinic, City Hosp.

Carl Herman Horst, A. B., Stanford, 1898.—Physician, Butte, Mont.

Solomon Hyman, S. B., Univ. of Cal., 1898.—Junior House Surg., Mt. Sinai Hosp., N. Y.

William Frederick Jelke, Ph. B., Yale, 1898.—Physician, Cincinnati.

Thomas Monroe Jones, A. B., Indiana, 1898.— Interne, King's Co. Hosp., Brooklyn.

Alfred Karsted, A. B., Stanford, 1898. —House Phys., German Hosp,, N. Y.

Arthur Herbert Kimball, S. B., Amherst, 1897.—Physician, Washington.

Louis Charles Lehr, A. B., 1898.— Physician, Balt.; Clin. Asst. Surg.

Edward McCrady L'Engle, A. B., St. John's, 1897.

George Victor Litchfield, Jr., A. M., Rand.-Macon, 1897.— Surgeon, St. Paul, Va.

Emma Lootz, A. B., Smith, 1897.— Physician, Boston.

Seymour DeWitt Ludlum, S. B., Rutgers, 1897.— Asst. Res. Physician, Friends' Asylum, Frankford, Pa.

Annie Galloway Lyle, A. B., Stanford, 1895.—Physician, San Francisco.

George Malcolm McGregor, S. B., Wis., 1894.—Physician, Mondovi, Wis.

Samuel Andrew Marshall, A. B., Yale, 1898.—House Surg., House of Relief, N. Y. Hosp.

John Scott McFarland, Ph. B., Yale, 1898.—Europe.

Edmund Webster Meisenhelder, A. B., Pa. Coll., 1898.— Interne, Barnes Hospital, Washington.

John Elmer Meisenhelder, S. B., Pa. Coll., 1897.—Junior Res. Surg., Taylor Hosp., Scranton, Pa.

*Henry William Ochsner, S. B., Wis., 1898. **November* 25, 1902.

Edward Hiram Reede, A. B., Cornell, 1898.—Res. Surg., St. Luke's Hosp., N. Y.

Edwin Nicholas Riggins, A. B., Williams, 1897.— Interne, Hudson St. Hosp., N. Y.

Carey Pegram Rogers, A. B., Wake Forest, 1897.— Physician, Jacksonville, Fla.

Stephen Rushmore, A. B., Amherst, 1897.— Interne, Hudson St. Hosp., New York.

George Barr Scholl, A. B., 1898.— Physician, Balt.; Assoc. Prof., Pathol. etc., Md. Med. Coll.

Melville Silverberg, A. B., Univ. of Cal., 1897.—House Officer, City Hosp., Boston.

John Nathan Simpson, A. B., Univ. of Nashville, 1893. — Assoc. Prof. Physiol., West Va. Univ., Morgangantown.

Harry Merriman Steele, Ph. B., Yale, 1894.—Asst. Clin. Micros., Yale.

Alice Weld Tallant, A. B., Smith, 1897.—Physician, Boston.

Condit Brewer Van Arsdall, A. B., Ky. Wesleyan, 1894.— Physician, Harrodsburg, Ky.

John Van Denburgh, Stanford (A. B., 1894, Ph. D., 1897).—Physician, San Francisco.

Otis Buckminster Wight, A. B., Stanford, 1898.—Physician, Portland, Ore.

Clara Louise Williams, S. B., Univ. of Cal., 1897.—Physician, Berkeley, Cal.

Dudley Williams, A. B., 1897.—Student of Pathol., Harvard.

Charles Benjamin Wright, A. B., Univ. of N. Dak., 1898.—Physician, Minneapolis. (57)

1903

Victor Hugo Bassett, A. B., Knox, 1896. —Instr., Bacteriol., etc., Northwestern Univ., Ill.

Lewis Clyde Bixler, A B., Lafayette, 1899.—House Officer.

Elisabeth Hedges Blauvelt, A. B., Bryn Mawr, 1896.—Interne, Infirmary for Women and Children, N. Y.

Clinton Ethelbert Brush, Jr., S. B., New York Univ., 1899.—House Officer.

Joseph Albert Chatard, A. B., Loyola, 1898.—Asst. Res. Phys., St. Joseph's Hosp., Balt.

George Edward Chinn, Jr., S. B., Central (Mo.), 1899.—Clin. Asst., Sheppard Hosp., Towson, Md.

Alfred Hull Clark, A. B., Cornell, 1899. —Interne, Hartford Hosp., Conn.

William Burgess, Cornell, A. B., Chicago, 1899.—Clin. Asst., Sheppard Hospital, Towson, Md.

Emma Grace Dewey, Wellesley (S. B., 1885, A. M., 1894). — Physician, Jacksonville, Ill.

Harlan Dudley, Ph. B., Oberlin, 1897.—Physician, Canton, O.

Dana Lee Eddy, A. B., Yale, 1898.—Physician, Leavenworth, Kan.

Roades Fayerweather, A. B., Harvard, 1899.— Orthopedic House Surgeon, Carney Hosp., Boston.

John Somerville Fischer, A. B., 1898.—Asst. Res. Phys., St. Joseph's Hosp., Baltimore.

Frederick Julius Gaenslen, S. B., Wisconsin, 1899.—Interne, German Hospital, N. Y.

Lewis McFarland Gaines, A. B., and S. B., Hampden-Sidney, 1898.—First Asst. Surg., R. I. Hosp., Providence.

John Timothy Geraghty, A. B., St. Thomas Coll., 1895; Ph. B., St. Paul Sem., 1897.—House Officer.

Francis Colquhoun Goldsborough, S. B., Princeton, 1899.—House Officer.

Justin Frank Grant, Ph. B., Yale, 1898.—Instr. Anat., West Va. Univ., Morgantown.

Louis Wardlaw Haskell, Jr., A. B., 1899.—Surgical Externe.

Arthur Douglass Hirschfelder, S. B., California, 1897.—House Officer.

Ross Hopkins, A. B., Kansas Univ., 1899.—Physician, St. Louis.

Henry Talbot Hutchins, A. B., Amherst, 1899.—House Officer.

Clement Levi Jones, S. B., Wash. and Jefferson, 1899.— Physician, Jamestown, O.

Louise Tayler Jones, A. B., Wellesley, 1896; M. S., Columbian, 1898.—Physician, Washington.

Albert Keidel, A. B., 1900.—Physician, Catonsville, Md.

Maurice Lazenby, A. B., Johns Hopkins, 1900.—Interne, Church Home, Balt.

Arthur Solomon Loevenhart, S. B., Ky. State, 1898.—Asst. Physiol. Chem.

Henry D. Long, A. B., Wash. and Jefferson, 1894.—House Officer.

Margaret Long, A. B., Smith, 1895.—Interne, Infirmary for Women and Children, N. Y.

Edward Janney Sidwell Lupton, S. B., Columbian, 1899.— First Asst. Res. Phys., Columbia Hosp., Wash.

Leo Augustine Lynch, A. B., Yale, 1899.—Asst. House Surg., Lying-in Hosp., N. Y.

William Sanders Manning, S. B., Columbian, 1899.—Clin. Asst., Emergency Hosp., Wash.

Watson Marshall, A. B., Princeton, 1899.—Physician, Pittsburg.

Robert Talbott Miller, Jr., A. B., Amherst, 1899.—House Officer.

Mary Elizabeth Morse, A. B., Woman's Coll. (Balt.), 1899.— House Officer, New England Hosp., Boston.

Willis Bean Moulton, A. B., Bowdoin, 1899.—House Officer.

Harry Benjamin Neagle, A. B., Bowdoin, 1899.—Res. Phys., Loomis Sanitarium, Liberty, N. Y.

Selden Irwin Rainforth, S. B., Cincinnati, 1899. — Surg. Interne, Presb. Hosp., N. Y.

Theodore Foster Riggs, A. B., Beloit, 1898.—House Officer.

Benjamin Franklin Riley, Jr., S. B., Univ. of Ga., 1898.—Physician, Atlanta.

George Canby Robinson, A. B., 1899.—Asst. Pathologist, Pa. Hosp., Phila.

Marvin Pierce Rucker, A. M., Randolph-Macon, 1899. — Demonstr. Physiol., Med. Coll. of Va., Richmond.

Ferdinand Schmitter, A. B., Union, 1899.—Instr. Anat., Univ. of Wis., Madison.

Oscar Theodore Schultz, A. B., Indiana, 1897. — Pathologist, Charity Hosp., Cleveland.

Winford Henry Smith, A. B., Bowdoin, 1899.—Interne, Lakeside Hosp., Cleveland.

Alexander Raymond Stevens, A. B., 1896.—House Officer.

Catherine Hutchinson Travis, A. B., McGill, 1895.—House Officer, New England Hosp., Boston.

Frank Hosford Watson, S. B., Wisconsin, 1899.—House Officer.

Charles Whittier Young, S. B., Illinois, 1897.—House Officer.

Bachelors of Arts

When the institution is not named, this university or the Johns Hopkins Hospital is to be understood. (F) indicates that the person has held a fellowship here. *—Died.

1879

George Washington McCreary.— Asst. Sec. and Librarian, Md. Hist. Soc., Baltimore.

Chase Palmer, (F), Ph. D., 1882; Asst., Mass. Inst. Tech., 1882-3, Tufts Coll., 1887-8; Prof., Mass. Norm. School, Salem, 1883-7, Wabash Coll., 1888-90, Manual Train. School, Louisville, 1895-1901.—Prof. Chem., Central Univ., Danville, Ky.

Edward Henry Spieker, (F), Ph. D., 1882.—Assoc. Prof. Greek and Latin. (3)

1880

Rev. Thomas Milton Beadenkopf, B. D., Yale, 1885.—Clergyman, Balt.

Allen Kerr Bond, M. D., Univ. of Md., 1882.—Physician, Balt.

William Cathcart Day, (F), Ph. D., 1883; Prof. Chem., St. John's, 1883-84, Univ. of Nashville, 1884-87, Swarthmore, 1887-1901.—Swarthmore, Pa.

Henry Laurence Gantt, M. E., Stevens Inst., 1884.—Mechan. Eng., Schenectady, N. Y.

Edgar Goodman, LL. B., Univ. of Md., 1881.—Editor, *The Baltimore American.*

Rev. Carl Eckhardt Grammer, Va. Theol. Sem., 1884; S. T. D., Trinity (Conn.), 1895; Prof., Va. Theol. Sem., 1887-97.—Clergyman, Norfolk, Va.

Alexander Fridge Jamieson.— Latin Master, Lawrenceville School, N. J.

*Edmund Allen Jarvis. **October* 15, 1880.

Stewart Brian Linthicum, LL. B., Univ. of Md., 1882.—Atty. at Law, Portland, Ore.

John Hanson Lowe, LL. B., Univ. of Md., 1882.—Atty. at Law, Balt.

Rev. Leigh Clinton Morgan.—Clergyman, N. Y.

*Nelson Palmer. **June* 12, 1886.

Thomas Pettigrew.—Civil Engr., Clarksburg, W. Va.

Harry Fielding Reid, (F), Ph. D., 1885; Prof., Case School, 1886-94; Assoc. Prof., Chicago, 1895-97.—Prof. Geol. Physics.

*Rev. Wiltz Raymond Stricklen. **December* 19, 1900.

Lewis Webb Wilhelm, (F), Ph. D., 1884.—Vice-Prin., College Prep. Sch., Baltimore. (16)

1881

William Wilson Baden, (F), LL. B., Univ. of Md., 1883; Ph. D., 1892; Prof. Southwestern Univ., 1892-93, Central (Ky.), 1893-96.—Prof. Latin, Idaho Univ., Moscow.

Henry Johns Bowdoin, LL. B., Univ. of Md., 1883.—Baltimore.

John Wilson Brown.—Philadelphia, Pa.

David Talbot Day, (F), Ph. D., 1884. —U. S. Geol. Survey, Washington.

William Henry Howell, (F), Ph. D., 1884; Mich. (Hon. M. D., 1890, Lecturer and Prof., 1889-92); LL. D., Trinity, 1901; Assoc. Prof., Harvard, 1892-93.—Prof. Physiol. and Dean, Med. Faculty; Assoc. Ed. *Journal of Experimental Medicine.*

John Hemsley Johnson, LL. B., Univ. of Md., 1887.—Atty. at Law, Balt.

*James Edward Keeler, D. Sc., Univ. of Cal., 1893; Fellow, Royal Astron. Soc. of London; Allegheny Observ., 1882-86; Lick Observ., 1886-91; Rumford Medalist, Amer. Acad. Arts and Sci., 1898; Prof., Western Univ. of Pa., and Director, Allegheny Observ., 1891-98; Director, Lick Observ., 1898-1900. **August* 12, 1900.

Rev. Edwin George Richardson.—Clergyman, Milwaukee, Wis.

Adoniram Judson Robinson, LL. B., Univ. of Md., 1885; Instr., Balt. City Coll., 1881-87.—Atty. at Law, Balt.

*Henry Rolando, M. D., Univ. of Md., 1883. **October* 4, 1888.

Lee Sale, LL. B., Wash. Univ., 1885; Instr., Louisville High School, 1881-83.—Atty. at Law, St. Louis; Lecturer, Wash. Univ.

Mactier Warfield, M. D., Univ. of Md., 1884.—Physician, Balt.; Instr. Laryngology. (12)

1882

William Hughlett Adkins, LL. B., Univ. of Md., 1883.—Atty. at Law, Easton, Md.

Thomas Alexis Berry.—Baltimore.

Gustav Bissing, (F), Ph. D., 1885; Examiner, U. S. Patent Office, 1884-98. —Patent Atty., Washington.

Walter Bernard Clarkson, Lecturer and Asst. Prof. Law, Yale, 1901-03.—Atty. at Law, Jacksonville, Fla.

Herman Louis Ebeling, (F), Ph. D., 1891; Prof., Miami Univ., 1891-99; Instr. and Acting Prof., Haverford, 1901-03.—Asst. Prof. Greek, Hamilton Coll., Clinton, N. Y.

Louis Garthe.—Journalist, Wash.

Edward Ingle.—Editor, Balt.

Richard Fuller Kimball, LL. B., Univ. of Md., 1884.—Atty. at Law, Balt.; Asst. State's Atty.

*Gustav Adolph Liebig, Jr., (F), Ph. D., 1885, Asst., 1887-90. **February* 10, 1897.

Charles William Emil Miller, (F), Ph. D., 1886.—Assoc. Prof. Greek.

James Page.—U. S. Hydrographic Office, Washington.

Albert Gallatin Palmer, (F), Ph. D., 1885; Asst. and Asst. Prof. Chem., Swarthmore, 1885-87.—Norwood, Md.

Robert Miller Reese.—Baltimore.

*Louis Tebbetts Stevens, (F), M. D., Harvard, 1887; late Lecturer, Wash. Univ. **February* 9, 1898.

Herbert Thorndyke Tiffany, LL. B., Univ. of Md., 1885.—Atty. at Law, Balt. (15)

1883

William Shirley Bayley, (F), Ph. D., 1886; Prof. Mineral. and Geol., Colby, 1888-1904.—U. S. Geol. Survey.

Maurice Fels, LL. B., Univ. of Pa., 1886.—Atty. at Law, Philadelphia.

David Sterrett Gittings.—Baltimore.

William Beatty Harlan, LL. B., Univ. of Md., 1885; A. M., St. John's, 1888.—Atty. at Law, Churchville, Md.

George Theophilus Kemp, (F), Ph. D., 1886; M. D., L. I. Med. Coll., 1891; Demonstr., Univ. of Pa., 1886-87; Assoc. and Assoc. Director, Hoagland Lab., 1888-93.—Prof. Physiol., Univ. of Ill., Champaign.

Gonzalez Lodge, (F), Ph. D., 1886; LL. D., Franklin and Marshall, 1901; Prof. Davidson, 1886-88, Bryn Mawr, 1889-1900.—Prof. Greek and Latin, Teachers Coll., N. Y.

William Edgar Stratton, M. D., Harvard, 1886.—Physician, Brooklyn.

Henry Winslow Williams, LL. B., Univ. of Md., 1885.—Atty. at Law, Balt.

Henry Van Peters Wilson, (F), Ph. D., 1888; Bruce Fellow, 1888-89.—Prof. Biol., Univ. of N. C., Chapel Hill.

William John Witzenbacher.—Atty. at Law, Hagerstown, Md. (10)

1884

Rev. Albert Clayton Applegarth, Ph. D., 1887.—Clergyman, Huntingdon, Pa.

Charles Walter Artz, LL. B., Columbia, 1886.—Atty. at Law, N. Y.

Walter Bliss Canfield.—Chemist, Pittsburg.

George Gibson Carey, LL. B., Univ. of Md., 1886.—Atty. at Law, Balt.

William Kennedy Cromwell.—Baltimore.

Charles William Remsberg Crum, M. D., Univ. of Md., 1888; Instr., Mercersburg, 1884-86, 1889-90; Prof. Math., Ursinus, 1892-95.—Physician, Jefferson, Md.

Harry Friedenwald, M. D., Phys. and Surg. (Balt.), 1886. — Physician, Balt.; Prof. Ophthalmol., etc., Coll. of P. and S.

Rev. William Lindsay Glenn, LL. B., Univ. of Md., 1888.—Clergyman, Belair, Md.

John Hinkley, LL. B., Univ. of Md., 1886.—Atty. at Law, Balt.

Charles Morris Howard, LL. B., Univ. of Md., 1888.—Atty. at Law, Balt.

*John Deering Lord, Jr., LL. B., Columbia, 1886. **January* 27, 1902.

Jere Williams Lord, M. D., Univ. of Pa., 1887.—Physician, Balt.; Clin. Prof., Dermatol.; Assoc. Prof. Anat., Balt. Med. Coll.

William Patrick Lyons, LL. B., Univ. of Md., 1886.—Atty. at Law, Balt.

Edgar George Miller, Jr., LL. B., Univ. of Md., 1886.—Atty. at Law, Balt.

William Ridgely Orndorff, (F), Ph. D., 1887.—Prof. Organ. Chem., Cornell.

George Dobbin Penniman, LL. B., Univ. of Md., 1886.—Atty. at Law, Balt.; Prof., Balt. Univ. Law School.

William Henry Perkins, Jr., LL. B., Univ. of Md., 1888.—Atty. at Law, Balt.

*George Clement Stokes, Jr., LL. B., Univ. of Md., 1888. **January* 21, 1897.

*William John Thomas, Prof. Math., Western Md. Coll., 1884-85. **March* 9, 1885.

*William Ferdinand Walz. **March* 21, 1887.

Frederick Henry Wilkens, Ph. D., Leipsic, 1891; Asst. Prof., Univ. of Wis., 1893-96.—Asst. Prof. Mod. Lang., Union Univ., Schenectady, N. Y.

George Wishart Edmond (*extra ordinem*), Asst. Chem., 1889-90.—Santa Monica, Cal.

Charles Howard Shinn (*extra ordinem*).—Inspector of Agric. Exper. Stations, Univ. of Cal., Berkeley. (23)

1885

John Pendleton Campbell, (F), Ph. D., 1888.—Prof. Biol., Univ. of Ga., Athens.

John Glenn, Jr., LL. B., Univ. of Md., 1887.—Atty. at Law, Balt.

Rt. Rev. Junius Moore Horner, S. T. B., Gen. Theol. Sem., N. Y., 1890; late Classical Instr., Oxford, N. C.—P. E. Missionary Bishop of Asheville, N. C.

James Albert Loane.—Baltimore.

Harry Wilbur Price, LL. B., Columbian, 1887.—Atty. at Law, Chicago.

Benjamin Titus Roberts, Jr.

Moses Roth Ryttenberg, LL. B., Univ. of Md., 1888.—Atty. at Law, N. Y.

Hugo Steiner, LL. B., Univ. of Md., 1887.—Atty at Law, Balt.

Henry Hazlehurst Wiegand, Proficient in Elec., 1889.—Elec. Engineer, Balt. (9)

1886

Joseph Sweetman Ames, (F), Ph. D., 1890.—Prof. Physics.

Wilson Lloyd Bevan, S. T. B., Gen. Theol. Sem. (N. Y.), 1889; A. M. and Fellow, Columbia, 1889; Ph. D., Munich, 1893.—Prof. Hist., Univ. of the South, Sewanee, Tenn.

Thomas Hepburn Buckler, M. D., Univ. of Md., 1888.—Physician, Balt.

Alfred Robert Louis Dohme, Ph. D., 1889.—Chemist, Balt.; Instr. Pharmacy.

Albert Alvin Doub.—Atty. at Law, Cumberland.

William Snyder Eichelberger, (F), Ph. D., 1891.; Instr., Wesleyan, 1891-96.—Prof. Math., U. S. Navy, Wash.

Harry English.—Instr., High School, Washington.

Abraham Flexner.—Principal, Flexner's School, Louisville, Ky.

William Edward Gates.—Cleveland, O.

*William Curns Lawrence Gorton, (F), Ph. D., 1889; Assoc. Prof. and Prof. Math., Woman's Coll. (Balt.), 1888-94. **November* 8, 1894.

Joseph Edward Harry, (F), Ph. D., 1889, Prof., Georgetown (Ky.), 1889-1900.—Prof. Greek, Univ. of Cincinnati.

Benjamin Henry Hartogensis.—Atty. at Law, Balt.

James Shaler Hodges, Profic. in Elec., 1890.—Elec. Engineer, Balt.

Theodore Hough, (F), Ph. D., 1893; Instr. and Asst. Prof., Mass. Inst. Tech., 1893-1903. — Assoc. Prof., Biol., Simmons Coll., Boston.

Percy Meredith Hughes.—Director of High Schools, Wash.

*John Henry Laessig, Jr. **December* 28, 1903.

Allan McLane, Jr., LL. B., Univ. of Md., 1888.—Atty. at Law, Balt.

John Hanson Thomas McPherson, (F), Ph. D., 1890; Instr., Univ. of Mich., 1890-91.—Prof. Hist., Univ. of Ga., Athens.

Colyer Meriwether, Ph. D., 1893.—Instr. English, etc., High School, Washington.

John Pleasants.—Baltimore.

Richard Hall Pleasants, Jr., LL. B., Univ. of Md., 1889.—Atty. at Law, Baltimore.

*William Flood Smith, Phys. and Surg., Balt. (M. D., 1889, and late Assoc. Prof. Surg. Anat.). **April* 14, 1903.

Michael Daniel Stein.—Supt. of Street Railways, San Francisco.

Bernard Wiesenfeld, LL. B., Univ. of Md., 1889.—Atty. at Law, Balt.

John Whitridge Williams, M. D., Univ. of Md., 1888.—Physician, Balt.; Obstetrician in Chief; Prof. Obstetrics.

Langdon Williams.—Teacher, Philadelphia.

*William Klapp Williams, Ph. D., 1889. **June* 4, 1897.

John Randolph Winslow, M. D., Univ. of Md., 1888.—Physician, Balt.

*Allan Chase Woods. **September* 9, 1886.

Frederick George Young, Vice-Pres., S. Dak. Normal School, 1888-91.—Prof. Econ., etc., Univ. of Oregon, Eugene.

*Thomas McCabe (*extra ordinem*), (F), Ph. D., 1888; Instr., Univ. of Mich., 1888-89; Prof., Ind. Univ., 1889-90; Assoc. French, Bryn Mawr, 1890-91. **February* 22, 1891. (31)

1887

Rev. Edward Carey Applegarth, (F), Ph. D., 1890; M. D., Phys. and Surg., Balt., 1892.—Clergyman, Boston.

Richard Howard Bayard, LL. B., Univ. of Md., 1889.—Atty. at Law, Balt.

Herbert Maxwell Brune, LL. B., Univ. of Md., 1889.—Atty. at Law, Balt.

Charles Edward Coates, Jr., Ph. D., 1891; Prof., St. John's, 1891-93.—Prof. Chem., La. State Univ., Baton Rouge.

Rev. William Roswell Cole, B. D., Harvard, 1890.—Clergyman, Cohasset, Mass.

Paul Joseph Dashiell, Ph. D., 1891; Instr., Lehigh, 1889-90, 1891-92.—Prof. Chem., U. S. Naval Acad.

George Peter Dreyer, (F), Ph. D., 1890, Demonstr., Assoc., Assoc. Prof., 1890-1900.—Prof. Physiol., Med. Dept., Univ. of Ill., Chicago.

Edward Duffy, Jr., LL. B., Univ. of Md., 1889.—Atty. at Law, Balt.

James Clark Fifield.—Atty. at Law, Minneapolis.

Julius Friedenwald, M. D., Phys. and Surg., Balt., 1890; A. M., Loyola, 1898.—Physician, Balt.; Assoc. Prof. Pathol., Coll. of P. and S.

Douglas Huntly Gordon, LL. B., Univ. of Md., 1889.—Pres., Internat. Trust Co., Balt.

Jay Cæsar Guggenheimer, LL. B., Columbia, 1891.—Atty. at Law, N. Y.

Charles Homer Haskins, Ph. D., 1890, Instr., 1889-90; Asst. Prof. and Prof., Univ. of Wis., 1890-1902.—Prof. Hist., Harvard.

George Lincoln Hendrickson, L. H. D., Western Reserve, 1902; Prof., Colo. Coll., 1889-91, Univ. of Wis., 1891-96.—Prof. Latin, Univ. of Chicago.

Franz Otto Karl Hoffmann.—Berlin, Germany.

Robert Milligan McLane, Jr., LL. B., Univ. of Md., 1891; State's Atty., Balt., 1899-1903.—Lecturer, Univ. of Md.; Mayor of Baltimore.

Robert William Rogers, Haverford (Ph. D., 1890, Instr., 1887-90); D. D., Wesleyan, 1894; Ph. D., Leipsic, 1895; Prof., Dickinson, 1890-93.—Prof. Hebrew, Drew Theol. Sem., Madison, N. J.; Lecturer, Woman's Coll., Balt.

Henry Oliver Thompson, LL. B., Univ. of Md., 1890.—Atty. at Law, Balt.

Benjamin Tuska, Columbia (A. M., 1888, LL. B., 1889).—Atty. at Law, N. Y.

Rev. Robert William Henry Weech.—Clergyman, Walbrook, Balt.

*Edward William Willis, M. D., Univ. of Md., 1889. **August* 7, 1893.

Henry Firey Wingert.—Atty. at Law, Hagertown, Md.

Walter Bell Scaife (*extra ordinem*), Ph. D., Vienna, 1887.—Pittsburg.

Albert Henry Smyth (*extra ordinem*), Lecturer, 1899-1900.—Prof. English, Central High School, Phila. (24)

1888

Henry Harold Ballard, Ph. D., 1893; Instr., Rose Polytech., 1893-96.—Math. Master, Country School, Balt.

Edward Ambrose Bechtel, (F), Ph. D., Chicago, 1900; Instr., Northwestern, 1893-97.— Instr., Latin, Univ. of Chicago.

James William Black, Ph. D., 1891; Acting Prof., Georgetown, Ky., 1891-92; Assoc. Prof., Oberlin, 1892-94.—Prof. Hist., etc., Colby Coll., Waterville, Me.

Charles Pliny Brigham, Ph. D., 1891.—Greenport, Long Island, N. Y.

*William Bromwell, Ph. D., 1895; Instr., Chem., Pratt Inst., Brooklyn, 1896-98. **September* 30, 1898.

*Hamilton McFarland Brown. **May* 8, 1892.

Arthur Lee Browne, M. D., Balt. Med. Coll., 1901.— Assoc. Prof., Chem., Balt. Med. Coll.

Charles Hamilton Carey.—Baltimore.

John Broughton Daish, LL. B., Georgetown (D. C.), 1900.—Atty. at Law, Washington.

Rev. William Levering Devries, (F), Ph. D., 1892; S. T. B., Gen. Theol. Sem. (N. Y.), 1894.— Clergyman, Washington.

Gustav Edward Gieske, M. D., Phys. and Surg. (Balt.), 1891.—Catonsville, Md.

Raleigh Colston Gildersleeve.— Architect, N. Y.

Harris Hancock, Ph. D., Berlin, 1894; D. Sc., Paris, 1901; Asst., Instr., Assoc., Chicago, 1892-1900.—Prof. Math., Univ. of Cincinnati.

Walter Jones, Ph. D., 1891; Acting Prof., Wittenberg, 1891-92; Instr. and Prof., Purdue, 1892-95.—Assoc. Prof. Physiol. Chem.

*William Augustine Jones, LL. B., Univ. of Ala., 1889. **February* 11, 1894.

Arthur Lincoln Lamb.—Science Master, Country School, Balt.

Charles Day Lanier.—Asst. Ed., *Review of Reviews*, N. Y.

John Bright Macauley.— Princ. Examiner, U. S. Patent Office, Wash.

*William Howard Miller, Instr. Math., Stanford, 1891-93. **March* 2, 1893.

*George Neville Moore. **October* 29, 1889.

John Henry O'Donovan, M. D., Univ. of Md., 1891.—Baltimore.

Frank Eugene Reader.—Atty. at Law, New Brighton, Pa.

Louis Rettger.—Prof. Nat. Sci., Terre Haute Normal School, Ind.

David Ellsworth Roberts.—Asst. Chief, Div. of Prints, Library of Congress.

Lessing Rosenthal, LL. B., Northwestern, 1891.—Atty. at Law, Chicago.

Charles Edmund Simon, M. D., Univ. of Md., 1890.—Physician, Balt.

Charles Kephart Swartz, (F), B. D., Oberlin, 1892; Fellow, Clark, 1889-90.—Fellow in Geol.

Robert Melvin Tarleton, E. M., Lehigh, 1895.—Mining Eng., Omaha, Neb.

Edward Lucas White, Asst., Dartmouth, 1891-92.—Classical Instr., Boys' Latin School, Balt.

John White, Jr., (F), Ph. D., 1891; Asst., Cornell, 1891-93; Prof., Univ. of Neb., 1893-03.—Prof. Chem., Rose Polytech. Inst., Terre Haute.

Westel Woodbury Willoughby, (F), Ph. D., 1891; Acting Asst. Prof., Stanford, 1894-95.—Assoc. Prof. Polit. Science.

William Franklin Willoughby, Lecturer, Harvard, 1900-01; Lecturer, 1900-01.—Treasurer of Porto Rico, San Juan.

Charles Hiram Chapman (*extra ordinem*), (F), Ph. D., 1890; Instr. and Assoc., 1889-92; Prest., Univ. of Oregon, 1893-99.—Woodland, Wash.

Charles Collier Holden (*extra ordinem*).—Asst. Romance Lang., West Va. Univ., Morgantown. (34)

1889

Adolph Bernhard, Chicago (Ph. D., 1894, Asst. Chem., 1893-98).—Stone Creek, O.

Hiram Horsburgh Bice.—Class. Instr., High School, N. Y.

John Sedgewick Billings, M. D., Univ. of Pa., 1892.—Physician, N. Y.

Walton Bolgiano, M. D., Univ. of Pa., 1892.—Physician, Balt.

Theodore Cooke, Jr., M. D., Univ. of Md., 1891.—Physician, Balt.

Frank Barnum Culver.—New York.

*Richard Edward Edes, Harvard (M. D., 1895, Morgan Fellow, 1889-91); Instr., Mass. Inst. Tech., 1892-93. **November* 25, 1901.

Daniel Nathan Eisendrath, M. D., Chicago Med. Coll., 1891.—Physician, Chicago.

Albert Bernhardt Faust, (F), Ph. D., 1892; Instr., 1894-96; Assoc. Prof., Wesleyan, 1896-03.—Asst. Prof. German, Univ. of Wis., Madison.

Charles Lee Fulton, LL. B., Univ. of Md., 1892.—Atty. at Law, Balt.

Joseph Elliott Gilpin, Ph. D., 1892.—Assoc. Chemistry.

Ross Granville Harrison, (F), Ph. D., 1894, Bruce Fellow, 1894; M. D., Bonn, 1899; Lecturer, Bryn Mawr, 1894-95.—Assoc. Prof. Anatomy.

George Newton Cressy Henschen, late Instr., High School, Harrisburg, Pa.

William Sadler Hilles.—Baltimore.

William Isaac Hull, Ph. D., 1892.—Prof. Hist. and Econ., Swarthmore, Pa.

Harry Clary Jones, (F), Ph. D., 1892.—Assoc. Prof. Phys. Chem.

George Charles Keidel, (F), Ph. D., 1895.—Assoc. Romance Lang.

*Jesse William Lazear, M. D., Phys. and Surg. (N. Y.), 1892; Asst. Clin. Micros., 1897-1900; Asst. Surg., U. S. A., 1900. **September* 25, 1900.

Alfred Mann, M. D., Phys. and Surg. (N. Y.), 1892.—Asst. Pathol., Univ. of Denver; Physician, Denver, Colo.

Charles Carroll Marden, Ph. D., 1894; Instr., Mich., 1890-91.—Assoc. Prof. Spanish.

William Watson McCulloh, LL. B., Univ. of Md., 1892; M. D., Univ. of Pa., 1898.—Physician, Balt.

Philip Randle Moale, Ph. D., 1894.—Chemist, Asheville, N. C.

Waldo Newcomer.—Baltimore.

Leonard Magruder Passano.— Instr. Math., Mass. Inst. Tech., Boston.

Arthur Jackson Patek, M. D., Univ. of Pa., 1892.—Physician, Milwaukee, Wis.

William Peters Reeves, Ph. D., 1893; Asst., Union, 1895-97; Prof., Iowa Univ., 1897-1900.— Prof. English, Kenyon, Gambier, O.

Legh Wilber Reid, Princeton (M. S., 1896, Instr., 1893-1900); Ph. D., Gottingen, 1899.—Assoc. Prof. Math., Haverford.

Ralph Robinson, LL. B., Univ. of Md., 1891.—Atty. at Law, Balt., Prof., Balt. Law School.

Brantz Mayer Roszel, (F), Ph. D., 1896; Instr., Physics, Wash. High School, 1896-1903.—Head Master, Sewanee Gram. School, Tenn.

Rev. John George Sadtler, S. T. B., Gen. Theol. Sem. (N. Y.), 1893.—Clergyman, Balt.

Benjamin Bittinger Shreeves, LL. B., Univ. of Md., 1891.—Atty. at Law, Baltimore.

Robert Tunstall Taylor, LL. B., Univ. of Va., 1891.—Physician, Balt.; Surgeon, Hosp. for Crippled Children.

Walter Herron Taylor, LL. B., Univ. of Va., 1891.—Atty. at Law, Norfolk, Va.

Winfield Scott Thomas.—Asst. Prof., Education, and Examiner of High Schools, Univ. of Cal., Berkeley.

Harry Mass Ullmann, Ph. D., 1892; Hon. Fellow, Chicago, 1892-93.—Instr. Chem., Lehigh.

Horatio Alanson Warren.— Teacher, Broad Brook, Conn. (36)

1890

John McEwen Ames.—New York.

William Hand Browne, Jr., Profic. in Elec., 1892; Instr., Univ. of Neb., 1896-98; Asst. Prof., Univ. of Ill., 1898-1902.— Tech. Ed., *Electrical Review,* N. Y.

James Edmund Bryan, Jr.—Supervisor of Schools, Camden, N. J.

Rev. Ralph Erskine Carson, Allegheny Theol. Sem., 1895.—Missionary, Assiout, Egypt.

*William Henry Carson, LL. B. and A. M., Harvard, 1894. **August* 12, 1899.

Sydney Million Cone, M. D., Univ. of Pa., 1893; Asst. Surg. Pathol., 1896-1900.— Physician, Balt.; Lecturer, Balt. Med. Coll.

Vernon Cook, LL. B., Univ. of Md., 1892.—Atty. at Law, Balt.

Lucius Bradley Dorr, M. D., Univ. of Md., 1890.—Physician, Buffalo, N. Y.

Edwin Stanton Faust, Ph. D., Munich, 1893; Asst., 1894-95.—Privat Docent and 1st Asst., Pharmacol. Inst., Strassburg.

Ned Arden Flood, Allegheny (A. M., 1898, Lecturer, 1895-98).—Atty. at Law, Meadville, Pa.

Herbert Friedenwald.—Philadelphia.

Fielding Hudson Garrison, M. D., Georgetown, 1893.—Physician, Wash.

Philip Fŭsting Gerry, Catholic Univ. (Ph. M., 1900, late Fellow and Instr.).—Director of English Instruction, Technical Schools, Wash.

George William Gray, Ph. D., 1895.—Chemist, Standard Oil Co., Whiting, Ind.

Samuel H. Guggenheimer. — Atty. at Law, N. Y.

Daniel Dorsey Guy.—Journalist, Washington, D. C.

James Chew Johnston, M. D., New York Univ., 1892.—Physician, N. Y.; Instr. Pathol., etc., Cornell.

Edward Parkin Keech, Jr., LL. B., Univ. of Md., 1892.—Atty. at Law, Baltimore.

Henry McElderry Knower, (F), Ph. D., 1896, Bruce Fellow, 1895-96; Instr., Williams, 1896-97. — Instr. Anat.; Sec. and Co-Editor, *American Journal of Anatomy.*

Berwick Bruce Lanier, M. D., Univ. of Md., 1892.—Physician, Balt.

Sylvan Hayes Lauchheimer, LL. B., Univ. of Md., 1892.—Atty. at Law, Baltimore; Asst. City Solicitor.

Tilghman Brice Marden, M. D., Univ. of Md., 1892.—Physician, Balt.; Assoc. Prof. Biol. and Histol., Balt. Med. Coll.

George Clarence Morrison, LL. B., Univ. of Md., 1893.—Atty. at Law; Prof., Balt. Law School; Memb., Md. House of Delegates, 1904.

Arthur Alexander Oehm.— Instr. in Music, Balt.

*Arthur Rosewald Oppenheimer, M. D., Univ. of Pa., 1893. **April* 29, 1895.

Rev. Lyman Pierson Powell.— Clergyman, Lansdowne, Pa.

Rev. Samuel Guy Snowden, B. D., Drew Theol. Sem., 1893.—Clergyman, Conemaugh, Pa.

James Ernest Stokes, M. D., Univ. of Md., 1892.— Physician, Salisbury, N. C.

Isaac Lobe Straus, LL. B., Univ. of Md., 1892.—Atty. at Law, Balt.

Charles Snowden Watts, LL. B., Univ. of Md., 1893.—Atty. at Law, Balt.

William Wallace Whitelock, Ph. D., Munich, 1892.—New York.

William Whitridge.—Baltimore.

Adolph Grant Wolf.—Atty. at Law, Washington.

Frank Alfred Wolff, Jr., (F), Ph. D., 1893.—Prof., Columbian; Physicist, Bureau of Standards, Wash.

James Homer Wright, M. D., Univ. of Md., 1892; A. M., Harvard, 1894; Fellow, Univ. of Pa., 1892-93.—Instr. Pathol., Harvard; Chief Pathologist, Mass. Gen. Hosp., Boston.

Rev. Oscar Woodward Zeigler, Princeton Theol. Sem., 1893; A. M., Princeton, 1894.—Clergyman, Clear Spring, Md.

Inazo Nitobe (Ota), (*extra ordinem*), Ph. D., Halle, 1890; late Prof. Econ., etc., Sapporo Agric. Coll.—Chief, Gov't Bureau of Industry, Taipeh, Formosa. (37)

1891

Michael Alexander Agelasto, A. M., Columbia, 1893.—Norfolk, Va.

*Delano Ames, M. D., Univ. of Md., 1892. **March* 10, 1899.

Thomas Stockham Baker, (F), Ph. D., 1895.—Lecturer, German; Prof. Mod. Lang., Tome Inst., Port Deposit, Md.

Randolph Barton, Jr., LL. B., Univ. of Md., 1893.—Atty. at Law, Balt.

Daniel Base, Ph. D., 1895.—Assoc. Prof. Chem., Md. Coll. of Pharmacy, and Coll. of P. and S., Balt.

William F. Bissing, M. E., Ohio State Univ., 1893.—Patent Atty., N. Y.

Rev. Frederick Foye Briggs, Crozer Theol. Sem., 1894.—Clergyman, Wilmington, Del.

Shellman Baer Brown, Profic. in Elec., 1893.—Annapolis, Md.

Thomas Morris Brown.—Elec. Engineer, Cleveland, O.

Sidney Hand Browne, Profic. in Elec., 1893.—Elec. Engineer, Pittsburg.

Henry Andrews Bumstead, Ph. D., Yale, 1897.—Asst. Prof. Physics, Yale.

Frank Kenneth Cameron, Ph. D., 1894; Fellow and Asst., Cornell, 1894-95, 1897-98; Asst. Prof., Catholic Univ., 1895-97.—Soil Chemist, Agric. Dept., Washington.

Malcolm John Cameron, A. M., St. Francis Xavier (N. Y.), 1892; LL. B. and A. M., Columbia, 1894.—Baltimore.

George Carey.—Schenectady, N. Y.

Rev. Neilson Poe Carey, S. T. B., Gen. Theol. Sem. (N. Y.), 1897.—Clergyman, N. Y.

Abraham Cohen, (F), Ph. D., 1894.—Assoc. Mathematics.

Harry Webster Cooke.—Atty. at Law, Baltimore.

Arthur Aaron Dembitz.—New York.

Augustus Kountze Detwiler, M. D., Univ. of Pa., 1894.—Physician, Omaha, Neb.

George W. Dobbin, M. D., Univ. of Md., 1894; Asst. and Assoc., 1895-1901.—Physician, Balt.; Prof. Obstetrics, Coll. of Phys. and Surg.

William Francis Gallaway, (F), Ph. D., 1896.—Prin., Chatham Acad., Savannah.

George Henry Heitmuller, M. D., Univ. of Pa., 1894.—Physician, Wash.

Philip Hanson Hiss, Jr. M. D., Columbia, 1895.— Physician, N. Y.; Adj. Prof. Bacteriol., Columbia.

Jacob H. Hollander, (F), Ph. D., 1894; Treasurer of Porto Rico, 1900-01.—Assoc. Prof. Pol. Econ.

Charles McHenry Howard, LL. B., Univ. of Md., 1893.—Atty. at Law, Baltimore.

Reid Hunt, (F), Ph. D., 1896, Assoc. and Assoc. Prof., 1898-03; M. D., P. and S. (Balt.), 1896; Tutor, Columbia, 1896-98. — Pharmacologist, Bureau of Public Health, Wash.

Charles William Leverett Johnson, (F), Ph. D., 1896; Instr., Yale, 1897-1900; Instr. Latin, Princeton, 1900-03.—Student in Europe.

Henry Webster Keating.—Instr., St. James School, Md.

*William Knower, LL. B., Univ. of Md., 1893. **December* 27, 1894.

George Lefevre, (F), Ph. D., 1896, Bruce Fellow, 1895-97, Asst., 1897-98.—Prof. Zool., Univ. of Mo., Columbia.

George Milton Linthicum, M. D., Phys. and Surg. (Balt.), 1893.—Physician, Balt.; Demonstr., Woman's Med. Coll.

Hugh Sisson Magruder, S. B., Columbia, 1898.—Architect, Balt.

Arthur William McDougall.—Gen. Sec., Assoc. Charities, Orange, N. J.

Rev. Whitford L. McDowell.—Clergyman, Balt.

James Farnandis Mitchell, M. D., 1897, Instr. Surg., 1900-02.— Physician, Washington; Prof. Surg. Pathol., Columbian.

Archibald Campbell Murray.—Balt.

Charles Fairbank Painter, Harvard, (M. D., 1895, Asst., 1897-99).—Physician, Boston; Instr., Tufts Med. Coll.

Alfred Wilmot Pleasants.—Baltimore.

Alfred Magill Randolph, Jr., Profic. in Elec., 1894.—Elec. Engineer, Manchester, Eng.

William Ferdinand Rittler. — Second Lieut., U. S. A., Monterey, Cal.

Charles James Search, M. D., Univ. of Wooster, 1892.—Physician, Brooklyn.

Alfred Jenkins Shriver, LL. B., Univ. of Md., 1893; A. M., Loyola, 1894. —Atty. at Law, Balt.

Rev. James Lawrenson Smiley.—Clergyman, Alberton, Md.

Samuel King Smith, LL. B., Univ. of Md., 1893.—Atty. at Law, Balt.

Rev. Daniel Gurden Stevens, Jr., (F), Ph. D., 1894; B. D., Crozer Theol. Sem., 1897.—Clergyman, Bryn Mawr, Pa.

Charles Morton Stewart, Jr.—Balt.

William Stuart Symington, Jr.. Ph. D., 1895; Instr. and Assoc. Prof., Stanford, 1893-95; Prof. Romance Lang., Amherst, 1895-1903.—New York.

Matthew Moller Johnston Vea.—Stoughton, Wis.

Rev. Edward Louis Watson.—Clergyman, Balt.

Charles Joseph West.

Charles Francis Woods, Jr., Ph. D., 1897; Prof. Woman's Coll., Richmond, 1879-99; Acting Prof., Swarthmore, 1899-1900, and Pa. Coll., 1900-02.—Acting Prof. German, Univ. of Colo., Boulder. (51)

1892

Harry Adler, M. D., Univ. of Md., 1895.—Physician, Balt.

Newton Diehl Baker, Jr., LL. B., Wash. and Lee, 1894.—Atty. at Law and Asst. Corporation Counsel, Cleveland; Prof., Baldwin Univ., O.

Charles Gambrill Baldwin, LL. B., Univ. of Md., 1895.—Atty. at Law, Balt.

Edwin Bernhard Behrend, M. D., Georgetown, 1894.—Physician, Wash.; Prof. Pathol., etc., Georgetown.

Rev. Lunsford Emory Bennett, B. D., Drew Theol. Sem., 1894.—Clergyman, Highlandtown, Md.

Arthur Fisher Bentley, (F), Ph. D., 1895.—Chicago.

George Edward Boynton.—Instr. Hist., etc., High School, Brooklyn.

Thomas Richardson Brown, M. D., 1897.—Physician, Balt.; Assoc. Prof., Coll. of P. and S.; Chief, Med. Clinic; Instr. Medicine.

Alfred Cookman Bryan, Ph. D., 1896; Instr., Wash. High School, 1896-02.—Instr. Hist., Polytech. Prep. Sch., Brooklyn.

Charles Weathers Bump.—News Editor, *Baltimore News*.

William Calvin Chesnut, LL. B., Univ. of Md., 1894.—Atty. at Law, Balt.

John Edwin Davis, LL. B., Univ. of Md., 1895.—Atty. at Law, Balt.

Henry Haywood Glassie.—Atty. at Law, Washington.

Leon Emanuel Greenbaum, LL. B., Univ. of Md., 1895.—Atty. at Law, Baltimore.

James Wesley Harvey, Jr., LL. B., Univ. of Md., 1893.—Balt.

William August Haussmann, (F), Ph. D., 1895.—Instr. German, Central High School, Phila.

Jose Lewis Hirsh, M. D., Univ. of Md., 1895.—Physician, Balt.; Demonstr., Univ. of Md.

Morris James.—Class. Instr., High School, Berkeley, Cal.

Hugh Judge Jewett, LL. B., Univ. of Md., 1894.—Atty. at Law, Balt.

Theodore Woolsey Johnson, M. E., Stevens Inst., 1896.—Prof. Mech. Eng., U. S. Naval Acad.

John Holladay Latane, Ph. D., 1895, Shaw Lecturer, 1898-99; Prof., Randolph-Macon Woman's Coll., 1898-1902.—Prof. Hist., Wash. and Lee, Lexington, Va.

Edward Jaquelin L'Engle.—Atty. at Law, Jacksonville, Fla.

Earl Perkins Lothrop, M. D., Niagara Univ., 1894.—Physician, Buffalo, N.Y.

Charles Whitney Mixter, Harvard (A. M., 1893, Ph. D., 1897, Asst., 1896-98, Instr. Econ., 1902-03).

Walter Alexander Montgomery, Ph. D., 1899; Instr., Univ. of Ark., 1899-1900; Acting Prof., Miss. Univ., 1900-01.—Class. Master, Gram. Sch., Sewanee, Tenn.

James Flack Norris, (F), Ph. D., 1895.—Asst. Prof. Chem., Mass. Inst. Tech.

Thomas Dobbin Penniman, Ph. D., 1898.—Elec. Eng., Balt.

Charles William Peppler, (F), Ph. D., 1898.—Prof. Greek, Emory Coll., Oxford, Ga.

Albert Moore Reese, Ph. D., 1900; Prof., Allegheny, 1901-02.—Assoc. Prof. Histol., etc., Syracuse Univ., N. Y.

William Miller Roberts, M. D., Univ. of Md., 1897.—Physcian, Balt.

Abram Barr Snively, M. D., Univ. of Pa., 1895.—Physician, Waynesboro, Pa.

John Sargent Stearns, M. D., Georgetown, 1894.—Physician, Wash.

Charles Daniel Steenken, M. D., Coll. of P. and S., N. Y., 1896.—Physician, Baltimore.

Leopold Stern.—Baltimore.

Lester Latham Stevens, LL. B., Univ. of Md., 1894.—Atty. at Law, Balt.

Gustav Luerman Stewart.—Baltimore.

*John Stewart. **September* 27, 1903.

Redmond Conyngham Stewart, LL. B., Univ. of Md., 1894.—Atty. at Law, Baltimore.

Arthur Bertram Turner, Ph. D., Univ. of Pa., 1902.—Prof. Math., Temple Coll., Phila.

Harold John Turner, Ph. D., 1899; Prof., Western Md., 1900-01.—Asst. Chem., Tufts Coll., Mass.

Richard Henry Wilson, Jr., Ph. D., 1898, Instr., 1898-99.—Prof. Romance Lang., Univ. of Va. (41)

1893

John Robert Abercrombie, M. D., Univ. of Md., 1895.—Physician, Balt.; Lecturer, Woman's Med. Coll.

Adolph Hall Ahrens.—Baltimore.

Theodore George Ahrens.— Architect, Baltimore.

Delaware Clayton Andre, LL. B., Univ. of Md., 1894.—Atty. at Law, Balt.

Frank Andrews, Teacher, 1893-1902.—Asst., Bureau of Statistics, Dept. of Agric., Wash.

William Steenbergen Blackford.—Balt.

George Stewart Brown, LL. B., Univ. of Md., 1895.—Atty. at Law, Balt.; Instr., Balt. Law School.

William Lawrence Clark.—Balt.

Frank Angier Clarke.—Prof. Latin and Greek, Mars Hill Coll., N. C.

Edward Lowell Cox.—Atty. at Law, Parkersburg, W. Va.

Noah Ernest Dorsey, (F), Ph. D., 1897, Asst. and Assoc., 1897-1901. — Physicist, Bureau of Standards, Washington.

Howard Blake Dowell, LL. B., Univ. of Md., 1895.—Atty. at Law, Balt.

John Hooper Edmondson, LL. B., Univ. of Md., 1895.—Atty. at Law, Balt.

Henry Simpson Greenleaf, M. D., Univ. of Pa., 1895.— Res. Phys., Amer. Hosp., Peking.

Wilmot Griffiss.

Louis Philip Hamburger, M. D., 1897. —Physician, Balt.; Clin. Asst.; Instr., Medicine.

John Hampden Hazelton.—Atty. at Law, New York.

Lloyd Lowndes Jackson, Jr., LL. B., Univ. of Md., 1895.—Atty. at Law, Baltimore.

Millard Langfeld, M. D., 1898.—Physician, Omaha; Prof. Bacteriol., etc., Creighton Med. Coll.

John Leypold Griffith Lee, LL. B., Univ. of Md., 1894.—Atty. at Law, Balt.; Prof. Med. Jurisprud., Woman's Med Coll.

Jacob Moses Moses, LL. B., Univ. of Md., 1895.—Atty. at Law, Balt.

Clayland Mullikin, LL. B., Univ. of Md., 1893.—Atty. at Law, Easton, Md.

Charles Watson Newhall.—Math. Master, Shattuck School, Faribault, Minn.

Frederick Bogue Noyes, D. D. S., Northwestern.—Prof. Histol., Dental Dept., Northwestern Univ., Evanston, Ill.

Eugene Lindsay Opie, (F), M. D., 1897. —Assoc. Pathology.

Charles Bingham Penrose, Jr., LL. B., Univ. of Md., 1898.—Atty. at Law, Baltimore.

Clement Andariese Penrose, M. D., 1897.—Physician, Balt.

Charles Carroll Schenck, Ph. D., 1901; Asst., Lehigh, 1901-02.—Instr. Physics, McGill Univ., Montreal.

Siegmund Bacharach Sonneborn.—Balt.

Morris Ames Soper, LL. B., Univ. of Md., 1895.— Asst. U. S. District Atty., Balt.; Instr., Balt. Law Sch.

Francis Edgar Sparks, Ph. D., 1896. —Atty. at Law, Balt.

Alfred Earnest Speirs.—Chicago, Ill.

Hugo Paul Thieme, Ph. D., 1897; Asst. Prof., Earlham, 1897-98; Lecturer, 1900-1901.—Instr. French, Univ. of Mich., Ann Arbor.

Douglas Hamilton Thomas, Jr.—Architect, Balt.

Edwin Litchfield Turnbull.—Baltimore.

Rev. John Ogle Warfield, B. D., Episc. Theol. Sem. (Camb.), 1896.—Clergyman, Phila.

Henry Skinner West, (F), Ph. D., 1899, Instr., 1899-1900; Prof. Eng., Balt. City Coll., 1894-97 and 1900.—Prin., Western High School, Balt.

Frederick Wallace Wilson.— Atty. at Law, The Dalles, Oregon.

Leo Wolfenstein.—Cleveland, O.

William Hamilton Kirk (*extra ordinem*), (F), Ph. D., 1895; Instr., Vanderbilt, 1895-1900.—Prof. Latin, Rutgers. (40)

1894

John Griffith Ames, Jr., A. M., Oxford, 1899; Prof., Kenyon, 1895-97.—Prof. English, Illinois Coll., Jacksonville.

William Stevenson Baer, M. D., 1898.—Physician, Balt.; Clin. Asst.; Instr. Orthopedic Surg.

Rev. Adolph Elhart Baker, Union Theol. Sem. (Va.), 1897.—Clergyman, Sykesville, Md.

Walter Baumgarten, M. D., Wash. Univ., 1896; Asst., Harvard, 1897-98; Asst. Med., 1903-04.—Physician, St. Louis.

Arthur Henry Baxter, Ph. D., 1898.—Instr. French, Amherst.

Ernest Julius Becker, Ph. D., 1898; Prof., Woman's Coll., Richmond, 1899-1901.—Instr. Mod. Lang., Balt. City Coll.

Thomas Pumphrey Benson, M. D., Univ. of Md., 1898.—Physician, Pumphrey's, Md.

Thomas Fitz Patrick Cameron.—Balt.

Moses S. Cohen, LL. B., Univ. of Md., 1896.—Atty. at Law, Balt.

Bernard Milton Cone, Columbia (A. M., 1896, LL. B., 1897).—Atty. at Law, N. Y.

Charles Angelo Conrad, LL. B., Univ. of Md., 1897.—Atty. at Law, Balt.

Walter Cox, M. D., Balt. Univ., 1898.—Asst. Surg., U. S. Marine Hosp. Service.

Percy Millard Dawson, (F), M. D., 1898.—Assoc. Physiology.

Eli Frank, LL. B., Univ. of Md., 1896.—Atty. at Law, Balt.; Instr., Balt. Law School.

Nathaniel Edward Griffin, Ph. D., 1899; Instr., Iowa Univ., 1899-1900; Prof., Wells Coll., 1900-03.—Instr. English, Univ. of Vt., Burlington.

Benjamin Howell Griswold, Jr., LL. B., Univ. of Md., 1897.—Atty. at Law, Balt.

Richard Jordan Hancock, Jr.—Atty. at Law, Atlanta, Ga.

Stephen Cloud Harry.—Math. Instr., Friends' School, Balt.

Thomas Wood Hastings, M. D., 1898.—Physician, N. Y.; Instr. Clin. Pathol., Cornell.

Rev. Conrad Augustine Hauser, Lancaster Theol. Sem., 1897.—Clergyman, Cumberland, Md.

Herman Frederick Krafft, LL. B., Columbia, 1898.—English Master, St. George's School, Newport.

Harry Taylor Marsnall, (F), M. D., 1898.—Asst. Pathol. and Instr. Medicine; Physician, Balt.

George Stevens Maynard, Profic. in Elec., 1896.—Gen. Elec. Co., Schenectady, N. Y.

Louis Wardlaw Miles, (F), M. D., Univ. of Md., 1897; Ph. D., 1902.—German Master, Country School for Boys, Baltimore.

William Albert Nitze, (F), Ph. D., 1899; Lecturer and Tutor, Columbia, 1899-03.—Prof. Romance Lang., Amherst.

James Piper, LL. B., Univ. of Md., 1897.—Atty. at Law, Balt.

John Eugene Howard Post.—French Master, Country School for Boys, Baltimore.

John Hurst Purnell.—Baltimore.

Milton Reizenstein, Ph. D., 1897.—Asst. Agent, Baron Hirsch Foundation, N.Y.

Frank Roy Rutter, (F), Ph. D., 1897; Lecturer, Columbian, 1901-02.—Dept. of Agric., Wash.; Lecturer, Commerce, etc., Iowa Univ., 1903-04.

Simon H. Stein, LL. B., Univ. of Md., 1896.—Balt.

Emerson H. Strickler.—Chemist, Balt.

Joseph Pembroke Thom, Jr., LL. B., Univ. of Md., 1901.—Atty. at Law, Baltimore.

Rev. George Harvey Trull, Princeton Theol. Sem., 1897.—Clergyman, Wilmington, Del.

Clinton Gambrill Tudor.—Civil Engr., Peoria, Ill.

Malcolm Van Vechten Tyson, LL. B., Univ. of Md., 1897.—Atty. at Law, Baltimore.

Horace Scudder Uhler, Instr., Northwestern, 1896-97.—Grad. Student.

George Talbot Whitfield.—Atty. at Law, Tallahassee, Fla.

Pere Lethrbury Wickes, Jr.—Atty. at Law, Balt.

*Chester Clark Wood. **September* 11, 1895.

James Curtis Ballagh (*extra ordinem*), Ph. D., 1895.—Assoc. History. (41)

1895

Wilbur Withrow Ballagh.—Tenafly, N. J.

William Sherman Bansemer, LL. B., Univ. of Md., 1897.—Atty. at Law, Baltimore.

Harry Bissing, Profic. in Elec., 1895. —Elec. Eng., N. Y.

Hanson Briscoe Black.—1st Lieut., U. S. Artillery, Sandy Hook, N. J.

Rev. Charles Henry Hardin Branch, Princeton Theol. Sem., 1898.—Clergyman, Lexington, Ky.

George Dobbin Brown, (F), Ph. D., 1901; Acting Prof., Univ. of Vt., 1901-02.—Instr. English, Balt.

Lawrason Brown, M. D., 1900.—Physician, Saranac Lake, N. Y.

Humphrey Warren Buckler, M. D., 1899. —Physician, Balt.; Clin. Asst.; Asst. Obstetrics.

William Mack Chowning, S. B., Knox, 1894; M. D., Mich., 1901.—Physician, Minneapolis; Demonstr. Pathol., etc., Univ. of Minn.

Charles Bevan Clark, S. B., Mass. Inst. Tech., 1897.—Engineer, Cincinnati.

Gilbert Abraham Coblens.—Balt.

Reuben Carll Foster, LL. B., Univ. of Md., 1897.—Atty. at Law, Balt.

Frank Taylor Fulton, S. B., Knox, 1894; M. D., 1899.—Pathologist, and Director, Pathol. Lab., R. I. Hosp., Providence; Instr., Brown.

*James Daton Gallagher, M. D., 1899. **April* 1, 1901.

George Herbert Gray.—Architect, N. Y.

Milton Daniel Greenbaum, LL. B., Univ. of Md., 1897.—Atty. at Law, Baltimore.

Roland Bridendall Harvey, LL. B., Univ. of Md., 1896.—Atty. at Law, Baltimore.

George Oscar James, (F), Ph. D., 1899; Instr., Univ. of Utah, 1896-97; Lecturer and Assoc. Prof., Columbian, 1900-02; Instr., Lehigh, 1902-03.—Instr. Math., Washington Univ., St. Louis.

Stuart Symington Janney, LL. B., Univ. of Md., 1901.—Atty. at Law; Instr., Balt. Law School.

Marcus Kaufman, LL. B., Univ. of Md., 1897.—Atty. at Law, Balt.

Charles Alexander Kilvert.—Providence, R. I.

Ernest Pendleton Magruder, Columbian (A. M., 1900, M. D., 1902).—Physician, Wash.

*Edward Spiller Oliver, M. D., 1900. **March* 18, 1902.

John Donaldson Parker, LL. B., Univ. of Md., 1897.—Atty. at Law, Balt.

David Sterrett Pindell, Profic. in Elec., 1897.

Jacob Hall Pleasants, Jr., M. D., 1899. —Physician, Balt.; Assoc. Prof., Coll. of P. and S.; Clin. Asst.; Asst. Med.

Rev. Gustav Rudolph Poetter, Lancaster Theol. Sem., 1898.—Clergyman, Balt.

John Andrew Robinson, LL. B., Univ. of Md., 1897.—Atty. at Law, Balt.

Sylvan Rosenheim, M. D., 1899.—Physician, Balt.; Demonstr., Coll. of P. and S.; Clin. Asst.; Asst. Laryngol.

Charles Albert Savage.—Asst. Prof. Latin, Univ. of Minn., Minneapolis.

Edgar Randolph Strobel, M. D., 1899. —Physician, Balt.; Clin. Prof., Balt. Med. Coll.; Clin. Asst.; Asst. Dermatology.

Robert McIlvaine Torrence.—Washington, Pa.

Campbell Easter Waters, Ph. D., 1899; Prof., Conn. Agric., 1900-01.—Asst. Chemistry.

Arthur Charles Watkins, B. D., Union Theol. Sem., N. Y., 1900.—Sewanee, Tenn.

Henry Abel Whitaker.—Atty. at Law, Belair, Md.

William Whitridge Williams, M. D., 1899; Asst. Pathol., Harvard, 1901-1903.—Physician, Mass. Gen. Hosp., Boston.

William Wingert, LL. B., Univ. of Md., 1897.—Atty. at Law, Hagerstown.

(37)

1896

Thomas Sewell Adams, (F), Ph. D., 1899.—Asst. Prof. Econ., Univ. of Wis., Madison.

Cornelius Beatty, Prof. Des Moines Coll., 1899-02.—Instr. Chem., Grant Univ., Athens, Tenn.

Augustus Cæsar Binswanger.—Atty. at Law, Balt.

Charles Edward Caspari, (F), Ph. D., 1900; Asst., Columbia, 1900-01.—Prof. Chem., St. Louis Coll. of Pharmacy.

Clarence Carroll Clark, Ph. D., Yale, 1903.—Lecturer, English Lit., Bryn Mawr.

Rev. Frank Wilbur Collier, S. T. B., Boston Univ., 1899.—Clergyman, Malden, Mass.

Rev. Charles Edward Diehl, Princeton Theol. Sem., 1900; A. M., Princeton, 1900.—Clergyman, Crescent Springs, Ky.

William Reginald Dorsey.—Atty. at Law, Balt.

George Dyre Eldridge, Jr., LL. B., Columbia, 1900.—New York.

Rev. Albert Dale Gantz, Princeton Theol. Sem., 1899; A. M., Princeton, 1899. — Clergyman, Walla Walla, Wash.

Alfred Dearing Harden.—Atty. at Law, Savannah, Ga.

*William Faithful Hendrickson, M. D., 1900; Demonstr. Pathol., Univ. of Pa., 1900-02. **August* 21, 1902.

*Frank Holmes Johnson. **June* 20, 1896.

Charles Harwood Knight.—Balt.

William Kurrelmeyer, (F), Ph. D., 1899; Prof., Franklin and Marshall, 1899-1900.—Instr. German.

Robert Lacy, S. B., Mass. Inst. Tech., 1898.—Civil Eng., Burke's Sta., Va.

Henry Lanahan.—Prof. Physics, Md. Agric., College Park.

Monroe Luchs.—Washington, D. C.

Arthur Webster Machen, Jr., LL. B., Harvard, 1899.—Atty. at Law, Balt.; Instr., Balt. Law School.

Richard Elliott Marine.—Asst. Examiner, U. S. Patent Office, Wash.

Henry Pickering Parker, M. D. 1901.—Interne, Union Protest. Infirmary, Baltimore.

Albert Cabell Ritchie, LL. B., Univ. of Md., 1898.—Atty. at Law, Balt.; Asst. City Solicitor.

Louis Rosenbaum, LL. B., Univ. of Md., 1898.—Atty. at Law, Balt.

Glanville Yeisley Rusk, M. D., 1900; Asst. Psychiatry, 1902-03.— Pathol. Inst., Ward's Island, N. Y.

Laurence Frederick Schmeckebier, (F), Ph. D., 1899.—U. S. Geol. Survey, Washington.

James Eustace Shaw, (F), Ph. D., 1900.—Assoc. Italian.

St. George Leakin Sioussat, Ph. D., 1899; Instr., Smith Coll., 1899-04.—Prof. Hist., Univ. of the South, Sewanee, Tenn.

Alexander Raymond Stevens, M. D., 1903.—House Officer.

Rev. John Wesley Richardson Sumwalt.—Clergyman, Frostburg, Md.

John Hanson Thomas, LL. B., Univ. of Md., 1897.—Atty. at Law, Balt.

Charles Burnet Torsch.—Balt.

James McConky Trippe, LL. B., Univ. of Md., 1898 —Atty. at Law, Balt.

Charles William Waidner, (F), Profic. in Elec., 1892, Ph. D., 1898, Asst., 1898-99; Instr., Williams, 1899-1901. — Physicist, Bureau of Standards, Washington.

William Fisher Wallis.—U. S. Coast and Geodetic Survey.

Frederick Howard Warfield, LL. B., Univ. of Md., 1899.—Atty. at Law, Baltimore.

Rev. John Armistead Welbourn, A. M., Columbian, 1898; Va. Theol. Sem., 1899.—Missionary in Japan.

John Montgomery West, M. D., 1901.—Student, Vienna. (37)

1897

Herbert Henry Adams, C. E., Mass. Inst. Tech., 1899.—Civil Engineer, Detroit.

Frederick Henry Baetjer, M. D., 1901.—Asst. Res. Surg.; Asst. Surgery.

Robert Ernest Belknap.—Pa. Steel Co., Chicago.

Frank Ringgold Blake, (F), Ph. D., 1902.—Instr. Oriental Lang.

Edward Lingan Bowlus, Prof., Mt. Union Coll., 1902; Instr. Biol., Monmouth Coll., 1902-03.— Middletown, Md.

Charles Keyser Edmunds, (F), Ph. D., 1903, Acting Prof., Univ. of Utah, 1898-99.—Prof. Phys., etc., Christian Coll., Lemecao, China.

Howard Main Gassman, E. E., Lehigh, 1901; Instr., Ursinus, 1897-99.—Elec. Eng., Ampere, N. J.

Neil Duncan Graham, M. D., 1901.—Physician, Wash.; Asst. Obstetrics, Howard Univ.

Charles Saloman Guggenheimer.—Atty. at Law, N. Y.

Frank Arnold Hancock.—Chemist, Balt.

Landry Harwood, LL. B., Kansas City Law School, 1899.—Atty. at Law, Kansas City.

Eugene de Forest Heald, Jr.—Wash.

Michael Ernest Jenkins, LL. B., Harvard, 1900.—Atty. at Law, Balt.

Harry M. Kaufman, M. D., 1901.—Physician, Washington; Demonstr. Pathol., Columbian.

Rev. Frank Albert Killmon.—Clergyman, Belair, Md.

Rev. John Edgar Knipp, Union Biblical Sem., O., 1900; Instr., Doshisha Kyoto, Japan, 1900-03.

Theodore Morgan Leary.—New York.

William Strobel Levy.—Atty. at Law, Baltimore.

Warfield Theobald Longcope, M. D., 1901.—Director, Ayer Clin. Lab., Pa. Hosp., Philadelphia.

Charles Edward Lyon, Instr., German, Princeton, 1902-03.—Fellow by Courtesy.

Rev. Henry Clay McComas, Jr., A. M., Columbia, 1898; Union Theol. Sem. (N. Y.), 1900.—Clergyman, Cadillac, Mich.

George Lovic Pierce Radcliffe, Ph. D., 1900; Instr. Hist., Balt. City Coll., 1901-02.—Atty. at Law, Balt.

Herbert Meredith Reese, (F), Ph. D., 1900; Asst., Lick Observ., 1900-03.—Asst., Yerkes Observ., Williams Bay, Wis.

Alexander Henry Schulz, Jr.—Balt.

Rev. John Frederick Schunck, B. D., West Phila. Divinity School, 1901.—Clergyman, Weldon, Pa.

*Henry Plant Shuter. **October* 17, 1898.

Josiah Morris Slemons, M. D., 1901.—Res. Obstetrician; Asst., Obstetrics.

Samuel Hamilton Spragins, A. M., Yale, 1899.—Supt. of Schools, Helena, Ark.

Albert Louis Steinfeld, M. D., 1901.—Lecturer, Histol. and Pathol., Toledo Med. Coll.; Physician, Toledo, O.

James McIlhany Thomson.—Norfolk, Va.

Albert James Underhill, M. D., 1901.—Physician, Balt.; Clin. Asst.

Louis Marshall Warfield, M. D., 1901.—Physician, Savannah, Ga.

George William Warren, M. D., 1901.—Physician, New York.

David Emrich Weglein.—Instr., Pedagogy, Balt. City Coll.

Dudley Williams.—Student of Pathol., Harvard.

Henry Merryman Wilson.—Prof., Textiles, A. and M. Coll. of N. C., Raleigh.

Charles Knickerbacker Winne, Jr., M. D., 1901.—Asst., Bender Lab., Albany. (37)

1898

Zadok Marshall Ballard.—Norfolk, Va.

Odin Baltimore Bestor.—Engr., Ridge Top, Tenn.

Duncan Kenner Brent, LL. B., Univ. of Md., 1900.—Atty. at Law, Balt.

Bennet Bernard Browne, Jr., M. D., 1902.—Physician, Balt.; Asst., Eye, Ear, and Throat Charity Hosp.; Clin. Asst.

George Miltenberger Clarke.—Atty. at Law, New York.

Henry Wireman Cook, M. D., 1902.—Physician, Richmond, Va.

Rev. Albert Charles Dieffenbach, Lancaster Theol. Sem., 1901.—Clergyman, Allegheny, Pa.

Gustavus Charles Dohme, M. D., 1902.—Physician, Balt.

Ralph Duffy, M. D., 1902.—Pathologist, West. Pa. Hosp., Pittsburg.

James F. Ferguson.—Balt.

John Somerville Fischer, M. D., 1903.—Asst. Res. Phys., St. Joseph's Hosp., Baltimore.

Thomas Fitzgerald, Jr.—Elec. Engineer, Lexington, Ky.

Lawrence Hall Fowler, S. B., Columbia, 1902.—Architect.

William Willoughby Francis, M. D., 1902.—Res. Phys., Royal Victoria Hosp., Montreal.

William Cazenove Gardner.—Balt.

Alexander Gordon, Jr., LL. B., Univ. of Md., 1900.—Atty. at Law, Balt.

William Browne Hammond, Jr., LL. B., Univ. of Md., 1900.—Atty. at Law, Baltimore.

Philip Warner Harry, Ph. D., 1903; Instr., Univ. of Me., 1901-02.—Instr., Romance Lang., Univ. of Cincinnati.

Leonard Keene Hirshberg, M. D., 1902.—Physician, Balt.; Assoc., Neurol., Coll. of P. and S.; Chief, Nerve Clinic, City Hosp.

Conway Shaler Hodges.—Atty. at Law, Baltimore.

William Randle Hubner, LL. B., Univ. of Md., 1900.—Atty. at Law, Balt.

Robert Henry Jones.

Charles Wesley Kalb.—Teacher, Catonsville, Md.

James Alfred Kennard, LL. B., Univ. of Md., 1901.—Toronto.

Louis Charles Lehr, M. D., 1902.—Physician, Balt.; Clin. Asst.

Henry John Lucke, Lafayette (A. M., 1901, Instr., Math., 1900-02).—Asst. Examiner, U. S. Patent Office, Wash.

David Gregg McIntosh, Jr., LL. B., Univ. of Md., 1901.—Atty. at Law, Baltimore.

Frank Oldham Miller, M. D., Univ. of Md., 1902.—Physician, Balt.

Raymond Durbin, Miller, (F).—Fellow in English.

Solomon Brenner Myers.—Baltimore.

Harold Pender, Ph. D., 1901.—Instr., Physics, Syracuse Univ., N. Y.

Thomas Lindley Pyle.—Pylesville, Md.

Vincent Adams Renouf.—Prof., Univ. of Tientsen, China.

George Barr Scholl, M. D., 1902.—Physician, Balt.; Assoc. Prof. Pathol., etc., Md. Med. Coll.

Alexander Lazear Seth, LL. B., Univ. of Md., 1901.—Atty. at Law, Balt.

Frederick Williamson Smith, C. E., Mass. Inst. Tech., 1901.—Engineer, Mattoon, Ill.

Robert Marsden Smith, LL. B., Univ. of Md., 1900.—Atty. at Law, Balt.

Victor Edgeworth Smith.—Grad. Student.

Charles Miner Stearns.—Asst. English, Harvard.

Leo D. Stein.

William Plunket Stewart.—Balt.

Albert Gad Stidman.—Instr. Mod. Lang., Lehigh, S. Bethlehem, Pa.

William Ellinger Straus.—Balt.

Joseph Nathan Ulman, A. M., Columbia, 1900.—Atty. at Law, Balt.

John Boswell Whitehead, Profic. in Elec., 1893, Ph. D., 1902.—Assoc. Electricity.

Powhatan Johnson Wooldridge.—Louisville, Ky.

Jacob Forney Young.—Balt.

Rev. Charles Smith Lewis (*extra ordinem*), S. T. B., Gen. Theol. Sem. (N. Y.), 1895.—Clergyman, Elmsford, N. Y. (48)

1899

James Robert Charlton Armstrong, Profic. in Elec., 1899.—Gen. Elec. Co., N. Y.

George Diuguid Davidson.—Prof. Mod. Lang., Rawlings Inst., Charlottesville, Va.

Henry Carter Downes, LL. B., Univ. of Md., 1901.—Atty. at Law, Balt.

Ferdinand Colquhoun Fisher.—Graduate Student.

Walter Melvin Fooks.—Atty. at Law, Baltimore.

Eddy Burke Fosnocht.—Mod. Lang. Master, Cheltenham Acad., Ogontz, Pa.

Simon Walter Frank.—Balt.

John Calvin French, (F).—Fellow in English.

*Charles Carter Gaddess. **June* 16, 1901.

John Reed Gemmill.—Denver, Colo.

Harry Seliger Greenbaum.—Medical Student.

Robert Harold Grimes, LL. B., Harvard, 1902.—Atty. at Law, N. Y.

Clarence Maurice Guggenheimer.—New York.

Hugh Sisson Hanna.—Grad. Student.

Stephen Paul Harwood.—Atty. at Law, Baltimore.

Louis Wardlaw Haskell, Jr., M. D., 1903.—Surg. Externe.

Talbot Dickson Jones.—Baltimore.

Leon Lewis Joyner.—Baltimore.

Karl Jungbluth, Jr.—Louisville, Ky.

John Albert Kalb.—Princ., High Sch., Hamburg, N. J.

John Hendricken King.—Med. Student.

George Wroth Knapp, Jr.—Baltimore.

Walter Marshall Krager.—Baltimore.

Herman Kurrelmeyer, (F), Ph. D., 1902.—Instr. Mod. Lang., Mass. Inst. Tech.

*Joshua Levering, Jr. **August* 23, 1900.

James Morfit Mullen.—Baltimore.

Philip Austen Murkland, LL. B., Univ. of Md., 1901.—Atty. at Law, Balt.

Edward Livingston Palmer, Jr.—Balt.

John Howard Palmer.—Baltimore.
Charles Mallory Remsen.—Med. Student.
Lawrence Anton Reymann.— Wheeling, W. Va.
Edward Ayrault Robinson, Jr.—Atty. at Law, Balt.
George Canby Robinson, M. D., 1903.—Asst. Pathologist, Pa. Hosp., Phila.
William Leavell Ross.—Pittsburg, Pa.
Edwin Albert Spilman.—Baltimore.
Rene de M. Taveau.—Graduate Student.
Richard Henry Thomas.—Chemist, Newark, N. J.
Ottomar Siegmund Werber. (38)

1900

Rev. Roger Brooke Taney Anderson, S. T. B., Gen. Theol. Sem. (N. Y.), 1903.—Clergyman, Boston.
Howard Baetjer, C. E., Mass. Inst. Tech., 1902.—Civil Engineer, Pittsburg.
Christian John Beeuwkes.— Atty. at Law, Balt.
Henry Bogue.—Washington, D. C.
Byron Noble Bouchelle.— Chesapeake City, Md.
Austin Adams Breed.—Cincinnati, O.
Charles Edward Brooks.—Grad. Student.
Edward Skipwith Bruce.—Baltimore.
James Luther Albert Burrell.—Student, Univ. of Munich.
Rev. Lyttleton Morgan Chambers. —Clergyman, Balt.
Christopher Thompson Clark, LL. B., Columbian, 1903.— Atty. at Law, Washington.
McQuilkin DeGrange.—Student of Law, Catholic Univ.
John Howard Eager.—New York.
Rev. John Edward Ewell, Va. Theol. Sem., 1903.—Clergyman.
Frederick Bonner Flinn.—Newark, N. J.
Frederick Foster.— Student of Law, Univ. of Md.
Otto Charles Glaser.—Univ. Scholar.
Joseph David Greene.—Atlanta, Ga.
John Wheeler Griffin, LL. B., Harvard, 1903.—Atty. at Law, N. Y.
Stuart Heyman.—Baltimore.
Harry Dickinson Hill.—Grad. Student.
John Philip Hill, LL. B., Harvard, 1903.
Edward Pechin Hyde, (F).—Fellow by Courtesy; Asst., U. S. Bureau of Standards, Wash.
Albert Keidel, M. D., 1903.—Physician, Catonsville, Md.
Robert Clark Kerr.—Baltimore.
Maurice Lazenby, M. D., 1903.—Interne, Church Home, Balt.
Donald Macy Liddell.—Baltimore.
Norvin Rudolf Lindheim.—Student of Law, Columbia.
Leonard Leopold Mackall.—Student in Germany.
T. Hartley Marshall.—Baltimore.
Reginald Ley McAll.—New York.
Jared Sparks Moore, A. M., Harvard, 1903.—Grad. Student, Harvard.
James Girvin Peters, Graduate in Forestry, Yale, 1903.—Baltimore.
Tobias Noel DeLoughmoe Purcell. —Sykesville, Md.
Robert Bruce Roulston, (F).— Fellow by Courtesy.
Frank Peyton Rous.—Medical Student.
James Edward Routh.—Grad. Student.
Alexander Van Rensselaer Schermerhorn. —Atty. at Law, Balt.
Wilson Levering Smith.—Student of Architecture, Columbia.
Miltenberger Neale Smull.—Baltimore.
James Carlyle Stevens.—Norfolk, Va.
George Lane Taneyhill, Jr.—Medical Student.
Bayard Turnbull.—Architect, N. Y.
Miller Wingert.—Student of Law, Balt.
Nathan Winslow, M. D., Univ. of Md., 1901.—Physician, Balt.
Arthur Wright.—Asst., Smithsonian Institution. (46)

1901

Ronald Taylor Abercrombie.—Student of Medicine.
Hollis Roswell Baker.—Aberdeen, Md.
Leon Kahn Baldauf.—Student of Medicine.
John Martin Bandel.—Student of Theol., Auburn, N. Y.
Bertram Moses Bernheim.—Medical Student.
Andrew Reid Bird.—Student, Presb. Theol. Sem., Richmond, Va.
John Manning Booker.
Norman Boyer.—Pittsburg, Pa.
John Straith Briscoe.—Baltimore.

Ernest Bonsall Brown.—Dept. of Agric., Washington.

*Alfred William Bruton. **May* 1, 1903.

Mortimer Bye.—Chemist, Balt.

Harry Stephenson Byrne.—Omaha, Neb.

George Cator, Ph. D., 1902.—Balt.

Kosciusko Walker Constantine.— Student of Medicine.

Frederick Richard Dapprich.—Graduate Student, Chicago.

Robert Sergeant Duck.—Baltimore

Aaron Ember, (F), Fellow in Semitics.

Leyburn Grear Fishach.—Baltimore.

John Frederick Gray.

William Hall Harris, Jr.—Student of Law, Balt.

Ernest Cummins Hatch.— Student of Law, Univ. of Md.

Lee Milton Hollander, (F).—Fellow in German.

Walter Isaac Kohn.—Louisville, Ky.

Eugene Joseph Leopold.—Med. Student.

Edward Breckinridge Lowndes.—Balt.

John Gresham Machen.—Stud't, Princeton Theol. Sem.

Robert Brooks Morse.—Student, Mass. Inst. Tech.

Edward Richards Noble.—Student, Gen. Theol. Sem., N. Y.

George Edward Rehberger. — Medical Student.

John Adelbert Riggins.—Student of Law, Univ. of Pa.

Forrest Shreve.—Grad. Student.

William Payne Shriver.—Student, Union Theol. Sem., N. Y.

Guy Everett Snavely.—Grad. Student.

Lindsay Coleman Spencer.—Atty. at Law, Baltimore.

Julian Samuel Stein.—Baltimore.

*Otto Albert Struth. **September* 1, 1902.

Walter B. Swindell, Jr.—Student of Law, Harvard.

James Edward Tyler, Jr.—Student of Law, Univ. of Md.

Henry Michael Warner, Univ. of Wis., 1903.

Augustus Price West.—Grad. Student.

Horace Slingluff Whitman.—Atty. at Law, Balt.

Marcus Wilton Wolf, Jr.—Student of Law, Univ. of Md. (43)

1902

Edward Bailey Beasley.—Med. Student.

Henry Beeuwkes.—Med. Student.

Elbridge Palmer Bernheim.—Louisville, Ky.

William Jackins Buttner.—Md. Steel Co., Sparrow's Pt.

John Gorsuch Campbell.—Instructor. St. James School, Md.

Robert Treat Crane.—Univ. Scholar.

Albert Goucher Dew.—Student of Theol., Boston Univ.

Ross Miles Diggs.—Baltimore.

Joseph Townsend England.—Student of Law, Univ. of Md.; Grad. Student.

Horace Clendenin Gillespie.—Phila.

John Sharshall Grasty.—Grad. Student.

Frederick Lee Guggenheimer.—Balt.

Rev. John Phelps Hand.— Clergyman, Baltimore.

Henry Honeyman Hazen.—Med. Student.

Louis Foltat Hildebrandt.—Univ. Schol.

William Bryant Hill.—Baltimore.

William Edwin Hoffman, Jr.— Grad. Student.

William Kirk, (F).—Fellow in Economics.

William Howard Koppelman.—Student, Mass. Inst. of Tech.

David Israel Macht.—Student of Medicine.

Ogle Marbury.—Student of Law, Univ. of Md.

Charles Markell, Jr.—Student of Law, Univ. of Md.

Bartgis McGlone.—Instructor, Biol. and Geol., Ill. Wesleyan, Bloomington.

Robert Emory Moore.—Med. Student.

Lyman Clements Murphy.—Med. Student.

Charles Augustus Myers.— Grad. Student.

John Norris Myers, Jr.—Baltimore.

Marbury Bladen Ogle.—Instr., Lang. and Hist., S. Tacoma, Wash.

Aubrey Pearre, Jr.—Student of Law, Harvard.

Isaac Rosenbaum Pels.—Med. Student.

Thomas Coulson Pinkerton.— Student, Mass. Inst. Tech.

Milton Williams Powell.

Benjamin Swayne Putts.—Med. Student.

Charles Frederick Ranft.— Grad. Student.

Walter Ford Reynolds.—Grad. Student.
Jacob Abner Sayler, Jr.—Student of Law, Harvard.
William Christian Schmeisser.—Balt.
Ralph Carlton Sharretts.—Student of Law, Univ. of Md.
Lloyd Parker Shippen.—Med. Student, Univ. of Pa.
Gibson Emerson Sisco.—Fort Wayne, Ind.
John Aydelotte Slemons.—Baltimore.
Sidney Smith.—Student of Law, Harvard.
Harvey Brinton Stone.—Med. Student.
Henry Philip Straus.—Grad. Student.
Solomon Strouse.—Student of Medicine.
Samuel Wolman.—Student of Medicine.
Peregrine Wroth, Jr.—Medical Student.
(47)

1903

John Armstrong Addison.—Grad. Student; Sec. Y. M. C. A.
Louis Adelsdorf.—Baltimore.
William Wetherall Ammen.— Student, Mass. Inst. Tech.
Harry Norman Baetjer, Law Student, Univ. of Md.; Grad. Student.
Arthur Newsom Baldauf.
Edgar Sutro Bamberger.—New York.
William Sellman Bird.—Grad. Student.
Frederick Conrad Blanck.—Grad. Student.
Solomon Blum.—Grad. Student.
James Wallace Bryan.—Law Student, Univ. of Md.
Jenks Cameron.—Law Student, Balt.
James Bayard Gregg Custis, Jr.—Student, Homeopath. Med. Coll., N. Y.
Alphonse Raymond Vivian Dochez. — Med. Student.
Theodore Wesley Glocker.— University Scholar.
John Alan Haughton.—Grad. Student.
Franklin Hazlehurst, Jr.—Med. Student.
Moses Walton Hendry.
John Coffey Hildt.—Univ. Scholar.
Eben Charles Hill.—Med. Student.
Richard Curzon Hoffman.—Pa. Steel Co., Steelton, Pa.
Stuart Cator Hopper.—Baltimore.
Robert Sampson Lanier.—New York.
Charles Alexander Marshall.—Baltimore.
Rev. Benjamin Wilcher Meeks.—Clergyman, Balt.; Grad. Student.
McHardy Mower.—Student of Law, S. C. Coll., Columbia.
William Urwick Murkland.—University Scholar.
John Marbury Nelson, Jr.—Baltimore.
Rev. Robert James Nicholson.—Clergyman, Balt.
Robinson Cator Pagon.—Baltimore.
William Turner Parsons.—Med. Student.
Eugene Leo Pessagno.—Med. Student.
Harry Ward Plaggemeyer.—Med. Student.
Charles Woodward Riley.— Med. Student.
Charles Albert Robinson, Jr.—General Electric Co., Schenectady.
Edgar Poe Sandrock.—Med. Student.
Joseph Tate Smith, Jr.—Univ. Scholar; Med. Student.
Wilton Snowden, Jr.— Law Student, Univ. of Md.
Philip Rayner Straus.—Student, School of Mines, Columbia.
George Drayton Strayer.—Student, Teachers Coll., Columbia.
Charles Henry Stubenrauch.—University Scholar; Med. Student.
Harry King Tootle.—Student of Law, Wash. Univ.
George William Townsend.— Student, Lehigh.
James de Lancey Ver Planck.—Fishkill, N. Y.
Harry Augustus Warner.— Student, Princeton.
Milton Charles Winternitz.—Med. Student.
Alexander Yearley, 3d.—Law Student, Univ. of Md.
(46)
(802)

II. Proficients in Applied Electricity

When the institution is not named, this university is to be understood. • (F) indicates that the person has held a fellowship here. *—Died.

1889

Cary Talcott Hutchinson, (F), Ph. B., Wash. Univ., 1886; Ph. D., 1889, Acting Assoc. Prof. Elec., 1898-99.—Consulting Eng., N. Y.

Joseph Lee Jayne, U. S. Naval Acad., 1882.—Lieut., U. S. Navy; Bureau of Elec., Navy Dept., Wash.

Henry Hazlehurst Wiegand, A. B., 1885.—Elec. Eng., Balt.

*Gilbert Wilkes, U. S. Naval Acad., 1881; Lecturer, Univ. of Wis., 1892-94. (4)

1890

William Julian Albert Bliss, A. B., Harvard, 1888; Ph. D., 1894; Instr., Woman's Coll., Balt., 1894-95.—Coll. Prof. Physics.

James Shaler Hodges, A. B., 1886.—Elec. Eng., Balt. (2)

1892

*Ezra Carl Breithaupt. **January* 27, 1897.

William Hand Browne, Jr., A. B., 1890; Instr., Univ. of Neb., 1896-98; Asst. Prof., Univ. of Ill., 1898-1902.—Tech. Ed., *Electrical Review*, N. Y.

*Henry Wakefield Frye, A. B., Colby, 1889. **June* 20, 1895.

George Henry Hutton, Jr.—Balt.

Robert Ernest Hutton.—Instr., Elec., Wash. and Lee, Lexington, Va.

Norman Crawford McPherson, A. B., Pa. Coll., 1889.—Hagerstown, Md.

Hugh Pattison.—Pa. Steel Co., Harrisburg.

Charles William Waidner, (F), A. B., 1896, Ph. D., 1898, Asst., 1898-99; Instr., Williams, 1899-1901.—Physicist, Bureau of Standards, Wash.

Arthur Judson Warner, A. B., Marietta, 1889.—San Francisco, Cal. (9)

1893

Louis Minturn Aspinwall.—Westinghouse Elec. Co., Pittsburg.

Shellman Baer Brown, A. B., 1891.—Engineer, Annapolis, Md.

Sidney Hand Browne, A. B., 1891.—Elec. Eng., Pittsburg.

Eugene Russell Carichoff, A. M., Wash. and Lee, 1885.—Sprague Elec. Co., N. Y.

Howard Waters Doughty.—Fellow in Chemistry.

Harold Mills Dyar, Ph. B., Marietta, 1888.—Civil Eng., Fort Meade, S. D.

Irenus Kittredge Hamilton, S. B., Trinity, Conn., 1891.—Chicago, Ill.

William Winder Handy, S. B., Haverford, 1891.—Elec. Eng., Balt.

Charles Roy McKay.—Sprague Elec. Co., N. Y.

William Robinson Molinard.

*Arthur Lacy Reese. **March* 12, 1894.

Arthur John Rowland.—Prof. Elec. Eng., Drexel Inst., Phila.

William Frederick Schulz, E. E., Univ. of Ill., 1890.—Elec. Eng., Balt.

Robert Isaac Todd.—Gen. Manager, Cincinnati Traction Co.

John Boswell Whitehead, Jr., A. B., 1898, Ph. D., 1902.—Assoc. Electricity. (15)

1894

William Pierce Anderson, A. B., Harvard, 1892.

John Woodside Corning.—Elec. Eng., Boston.

Lewis Warrington Cottman.—Balt.

Harvey Cavendish Darrell.—Balt.

Peter Conover Hains, Jr., U. S. Naval Acad., 1893.—U. S. Artillery, Ft. Riley, Kan.

Stephen Quentin Hayes, A. B., Georgetown, D. C., 1892.—Westinghouse Co., Pittsburg.

Douglas Alexander Howard, U. S. Mil. Acad., 1878.—Captain (retired), U. S. A.

Andrew Ellicott Maccoun.—Electrician, Carnegie Steel Co., Pittsburg.

James Warren McCrosky, S. B., Univ. of Neb., 1891.—Electrician, Buenos Ayres.

Henry Hutchinson Norris, M. E., Cornell.—Asst. Prof. Elec. Eng., Cornell, Ithaca, N. Y.

Charles Edward Phelps, Jr.—Chief Eng., Elec. Commission, Balt.

Alfred Magill Randolph, Jr., A. B., 1891.—Elec. Eng., Manchester, Eng.

Samuel Reber, U. S. Mil. Acad., 1886. —Colonel, and Instr., Signal Service, U. S. A.

Franklin Roberts.—Elec. Eng., Balt.

Theodore Straus.—Baltimore.

John Saunders Taylor.—Atty. at Law, Norfolk, Va.

Frank McStocker Thomas.—Electrician, Philadelphia.

Wallace Durant White.—Baltimore.

James Watts Young.—Electrician, Phila. (19)

1895

Harry Bissing, A. B., 1895.—Electrical Engineer, N. Y.

Byron Briggs Brackett, A. B., Syracuse, 1890; Ph. D., 1897; Instr., Union, 1897-98, Wash. High School, 1898-1900, Rutgers, 1900-03.—Instructor, Electr., Clarkson School of Tech., Potsdam, N. Y.

Benjamin Harrison Branch.—Gen. Elec. Co., Schenectady, N. Y.

Edson Fessenden Gallaudet, A. B., Yale, 1893; Ph. D., 1896; Instr., Yale, 1896-1900.—Engineer, Cramp Works, Philadelphia.

George Henry Hill, A. B., Williamsport Dickinson Sem., 1891.—Gen. Elec. Co., Schenectady, N. Y.

Alexander McIver, Jr., A. B., Univ. of N. C., 1890.—Gen. Elec. Co., Schenectady, N. Y.

Joseph Mullen, Jr.—Elec. Eng., Petersburg, Va.

Charles Reutlinger.—Elec. Eng., Balt.

John Jacob Rothermel, A. B., Franklin and Marshall, 1893.—Instr., Physics, Wash. High School.

Frank Semple Wilcox, S. C. Mil. Acad., 1893. (10)

1896

Matthew Maury Corbin.—Gen. Elec. Co., Schenectady, N. Y.

Isidor Deutsch.

Hugh Miller Frazer, S. B., Ky. State, 1889.—Electrician, Lexington, Ky.

James Holdsworth Gordon, Jr.—Electrician, N. Y. Telephone Co.

Horace Marshall Harriman, Jr.—Elec. Eng., Balt.

Malcolm Wescott Hill.—Elec. Contractor, Baltimore.

George Harwood Hodges.—Electrician, N. Y. Telephone Co.

Jasper Alan McCaskell, S. B., Loyola, 1895; E. M., Columbia, 1900.—Chicago.

George Stevens Maynard, A. B., 1894. —Gen. Elec. Co., Schenectady, N. Y.

Henry Todd Powell.—Elec. Eng., Balt.

Charles Leonard Reeder.— Consulting Eng., Balt.

Martin Schwab.—Elec. Eng., Balt.

James Mowton Saunders Waring.—Elec. Eng., Balt. (13)

1897

Wyatt Hamilton Allen, Ph. B., Yale, 1896.—Elec. Eng., N. Y.

Joseph Hockman Bowman, A. B., Franklin and Marshall, 1893.—Engineer, Tonala, Mexico.

Walter Herman Eisenbrandt.—Electrical Engineer, Balt.

David Sterrett Pindell, A. B., 1895. (4)

1898

George Edward Bartell.—Baltimore.

William Burke Brady, M. E., Lehigh, 1897.—Elec. Eng., Brooklyn.

*Edmund Frank, S. B., Rose Polytech., 1897. **July*, 1901.

William Schrofield Gorsuch, Jr.—Elec. Eng., Balt.

Richard Cameron Haldeman, A. B., Yale, 1896.—Westinghouse Co., Pittsburg.

William Lemmon Hodges.—Electrician, Philadelphia.

Ferdinand Brauns Keidel.—Gen. Elec. Co., Schenectady, N. Y.

Bertram Motter Kershner.—Elec. Eng., St. Louis.

Charles J. Spencer.—Electrician, N. Y. (9)

1899

James Robert Charlton Armstrong, A. B., 1899.—Gen. Elec. Co., N. Y.

Robert Buchanan Beale, S. B., Md. Agric., 1896.—Gen. Elec. Co., Schenectady, N. Y.

Reinier Koller Beeuwkes.—Electrician, N. Y.

William Trout Everett.

James William Swaine.—Elec. Eng., Baltimore. (5)

(90)

LIBRARIES

1. The UNIVERSITY LIBRARY numbers over 115,000 bound volumes, selected with special reference to the instruction here given. It is arranged in several collections, of which these are the chief:

General Reference.	Classical.
Historical and Political.	Oriental Languages.
Mathematical and Physical.	Modern Languages.
Chemical.	The McCoy Art Library.
Biological.	Medicine.
Geological.	Physiology and Anatomy.

The reference library and reading room is open daily from 9 a. m. to 6 p. m.; the other rooms in accordance with special regulations.

The library receives the publications of the leading scientific societies of the world and the chief literary and scientific periodicals. The whole number of serials received exceeds one thousand. This list is supplemented by those of the Peabody Institute and other institutions, so that the whole number of journals accessible (exclusive of ephemeral publications) exceeds twelve hundred. Important books are received by the library as soon as published, by purchase or by the courtesy of dealers.

2. The PEABODY LIBRARY is a choice collection of books purchased since 1866. It is particularly full in academic transactions, long historical series, and costly illustrated books. It numbers 149,000 volumes, well bound, catalogued, and arranged. It is open daily, without charge, from 9 a. m. to 10.30 p. m.

3. The ENOCH PRATT FREE LIBRARY numbers 222,000 volumes, and is open daily, without charge.

4. The MARYLAND HISTORICAL SOCIETY LIBRARY contains 40,000 volumes of historical works, and is open daily.

5. Other libraries of Baltimore are the New Mercantile Library (70,000 volumes), the Bar Library (20,000 volumes), the Medical and Chirurgical Library (14,000 volumes), the Maryland Diocesan Library (32,000 volumes).

6. Washington is so near that its museums and libraries may be easily visited. Among the chief institutions of interest to students are these:

The Library of Congress.
The Smithsonian Institution and National Museum.
The Army Medical and Surgical Museum and Library.
The U. S. Coast and Geodetic Survey.
The U. S. Geological Survey.
The U. S. Naval Observatory.
The Libraries of the Departments and Bureaus.
The Corcoran Art Gallery.

Regulations of the Treasurer's Office

I. The Treasurer's Office is open daily from 9 a. m. to 4 p. m.

II. All bills should be presented at that place, endorsed as correct by the person under whose authority the expense has been incurred.

III. No member of the academic staff is allowed to incur a bill in the name of the university, unless authority is given for the same by the Trustees, in advance—either as an item in the annual budget, or as a special appropriation. Blank forms of application are provided for special requisitions.

IV. Orders for books and apparatus to be imported from Europe will not be considered authorized, unless countersigned by the President or the Treasurer of the university.

All goods must be consigned to and addressed "The Johns Hopkins University, Baltimore, Md." Goods for other parties (societies or individuals) must not be included in the university cases. Invoices, sworn to before the U. S. Consul, must be sent by mail, and a duplicate invoice by the following mail, both addressed to The Johns Hopkins University.

Unless otherwise ordered, goods from Europe should be sent as follows:

From Germany by the North German Lloyd steamers sailing for Baltimore from Bremen; from England by steamship lines from Liverpool to Baltimore; from France and Italy, via Havre and Liverpool.

Printed copies of instructions to shippers, which can be obtained at the Treasurer's Office, should in all cases be enclosed with the orders.

V. The Treasurer's Office will make purchases, at wholesale rates, of supplies which are required for the current needs of the university.

VI. Such pass books as are authorized by the Treasurer should be presented for balance and settlement every month.

VII. The wages of all persons employed by the university will be paid at the Treasurer's Office.

VIII. When C. O. D. packages are expected, previous arrangements should be made for their reception.

IX. Outlays made for individuals (express parcels, postage, telegraph messages, etc.) should be settled at once.

X. An annual allowance is made by the Trustees, in the budget, for such expenses as they approve, and in deciding on the items they are governed by a consideration of the general interests of the university, as well as by the needs of special branches of instruction. Balances to the debit or credit of any account are carried forward to the new account at the opening of each financial year (September 1). A statement of the amount of the balance and of any additional appropriation will be communicated to the parties severally interested, if requested, after the Trustees' meeting in October.

PUBLICATIONS ISSUED AT THE JOHNS HOPKINS UNIVERSITY

I. American Journal of Mathematics

This journal was commenced in 1878, under the editorial direction of Professor Sylvester. Professor Frank Morley is now the Editor. Twenty-five volumes of about 400 pages each have been issued, and the twenty-sixth is in progress. It appears quarterly. Subscription $5 per year. Single numbers $1.50. A very few complete sets remain. These will be sold for $125 per set.

II. American Chemical Journal

This journal was commenced in 1879, with Professor Remsen as Editor. Thirty volumes have been issued, and the thirty-first is in progress. This journal appears monthly. Two volumes of six numbers and of about 500 pages each are issued yearly. Subscription $5 per year. Single numbers 50 cents.

III. American Journal of Philology

The publication of this journal commenced in 1880, under the editorial direction of Professor Gildersleeve. Twenty-four volumes of about 500 pages each have been issued, and the twenty-fifth is in progress. It appears four times yearly. Subscription $3 per volume. Single numbers $1.

IV. Studies from the Biological Laboratory

The publication of these papers commenced in 1879, under the direction of Professor Martin, with the assistance of Professor W. K. Brooks. Five volumes of about 500 pages, octavo, and 40 plates each, have been issued.

V. Studies in Historical and Political Science

The publication of these papers was begun in 1882, under the editorial direction of Professor H. B. Adams. Dr. Vincent, Dr. Willoughby, and Dr. Hollander are now the editors. Twenty-one series are now completed and the twenty-second series is in progress. A number of extra volumes have also been issued. Subscription $3 per volume. The set of twenty-one regular series will be sold for sixty-three dollars.

VI. Memoirs from the Biological Laboratory

These monographs are issued under the editorial direction of Professor W. K. Brooks. Volume V is now complete. Price for the set of five volumes thirty-five dollars.

VII. Johns Hopkins University Circular

The publication of these Circulars began in December, 1879, and 168 numbers have since been issued. Subscription $1.00 per year.

VIII. Contributions to Assyriology and Comparative Semitic Philology

The publication of this journal was begun in 1889. Professor Paul Haupt, of the Johns Hopkins University, and Professor Friedrich

Delitzsch, of the University of Berlin, are the editors. Volume V is in progress.

IX. Reprint of Economic Tracts

Professor J. H. Hollander, editor. First Series, 1903, $1.50; Second Series, $1.00.

X. The Johns Hopkins Hospital Reports

These reports are edited by the Medical Faculty of the university and published for the Johns Hopkins Hospital. Their publication was begun in 1890. Volume XII is in progress. Price $5 per volume. The set of eleven volumes will be sold for sixty dollars.

XI. The Johns Hopkins Hospital Bulletin

The publication of this Bulletin began in 1889. It is published monthly. Volume XV is in progress. Subscription $2.00 per year. The set of fourteen volumes will be sold for seventy-five dollars.

XII. Modern Language Notes

This journal is edited by Professor A. M. Elliott and his associates in the Modern Language Department. It appears monthly. The nineteenth volume is in progress. Price $1.50 per year.

XIII. The Journal of Experimental Medicine

The publication of this journal was begun in 1896. Professor W. H. Welch is the principal editor. Volume VI is in progress. Price $5 per year. The set of six volumes will be sold for thirty-five dollars.

XIV. American Journal of Insanity

This journal is under the direction of Professor Henry M. Hurd as editor in chief. It appears quarterly. Subscription $5 per year.

XV. Terrestrial Magnetism and Atmospheric Electricity

This journal is edited by Dr. L. A. Bauer. It appears quarterly. Volume IX is in progress. Subscription $2.50 per year.

XVI. Reports of the Maryland Geological Survey

These reports are under the editorial direction of Professor W. B. Clark, Director of the Survey.

XVII. Reports of the Maryland Weather Service

These reports are under the direction of Professor William B. Clark, Director of the Service.

XVIII. Annual Report

Presented by the President to the Board of Trustees, reviewing the operations of the university during the past academic year.

XIX. Annual Register

Giving the list of the officers and students and containing detailed statements as to the regulations and work of the university.

Announcements of the Graduate, Collegiate, and Medical Courses of Instruction are issued yearly and will be sent on application.

Some of the principal separate publications issued by the Johns Hopkins Press are:

THE PHYSICAL PAPERS OF HENRY A. ROWLAND. 716 pages, royal octavo. $7.50.

PHOTOGRAPHIC REPRODUCTION OF THE KASHMIRIAN ATHARVA-VEDA. Edited by Professor Bloomfield. 3 vols., folio. $50.

STUDIES IN HONOR OF PROFESSOR GILDERSLEEVE. 527 pages, octavo. $6.00.

PHOTOGRAPHS OF THE NORMAL SOLAR SPECTRUM. By Professor H. A. Rowland. Set of ten plates, $20.

A NEW CRITICAL EDITION OF THE HEBREW TEXT OF THE OLD TESTAMENT. Now in progress. Prospectus on application.

A COMPLETE FACSIMILE EDITION OF THE TEACHING OF THE APOSTLES. 110 pages quarto and 10 plates. $5.00.

REPRODUCTION OF A SYRIAC MANUSCRIPT OF THE ANTILEGOMENA EPISTLES. 17 phototype pages. $3.00.

DESCRIPTION OF THE JOHNS HOPKINS HOSPITAL. 116 pages, 4to, and 56 plates. $10.

SELECTIONS FROM THE EARLY SCOTTISH POETS. By William Hand Browne. $1.25.

A MONOGRAPH OF THE GENUS SALPA. By W. K. Brooks. 400 pages and 57 plates. $7.50.

THE FINANCIAL HISTORY OF BALTIMORE. By J. H. Hollander. 400 pages, 8vo. $2.00.

CUBA AND INTERNATIONAL RELATIONS. By J. M. Callahan, 503 pages, 8vo. $3.00.

THE AMERICAN WORKMAN. By E. Levasseur (translation). 540 pages, 8vo. $3.00.

THE DIPLOMATIC RELATIONS OF THE UNITED STATES AND SPANISH-AMERICA. By John H. Latané. (The Albert Shaw Lectures on Diplomatic History.) 294 pages, 12mo. $1.50.

THE DIPLOMATIC HISTORY OF THE SOUTHERN CONFEDERACY. By J. M. CALLAHAN. (The Albert Shaw Lectures on Diplomatic History.) 304 pages, 12mo. $1.50.

STUDIES IN TYPHOID FEVER. By William Osler and others. Series I, II, III. 776 pages, 8vo. $5.00.

THE MALARIAL FEVERS OF BALTIMORE. By W. S. Thayer and others. 280 pages, 8vo. $2.75.

STUDIES IN STATE TAXATION WITH PARTICULAR REFERENCE TO THE SOUTHERN STATES. 254 pages, 8vo. $1.25.

BIBLIOGRAPHIA HOPKINSIENSIS. A list of publications by members of the university. Now in progress.

DISSERTATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN THE JOHNS HOPKINS UNIVERSITY.

POEMA DE FERNAN GONÇALEZ. Critical Text by C. Carroll Marden. 274 pages, 8vo. $2.00.

THE TAILL OF RAUF COILYEAR. Edited by William Hand Browne. 164 pages, 8vo. $1.00.

BALTIMORE LECTURES ON MOLECULAR DYNAMICS AND THE WAVE THEORY OF LIGHT. By Lord Kelvin. 8vo. $4.50.

Scientific Societies

1. The Scientific Association, meeting monthly, under the presidency of Professor Ames.

2. The Philological Association, meeting monthly, under the presidency of Professor Gildersleeve.

3. The Historical and Political Science Association, meeting fortnightly.

4. Naturalists' Field Club, which makes weekly excursions during the spring and autumn and holds monthly meetings for the presentation and discussion of papers.

There are also companies which meet weekly in the laboratories for the reading of the scientific journals, and seminaries in several departments of study.

Historical Statement

The Johns Hopkins University was founded by the munificence of a citizen of Baltimore, Johns Hopkins, who bequeathed the most of his large estate for the establishment of a University and a Hospital.

1867, August 24.	Incorporation of the Johns Hopkins University.
1870, June 13.	Organization of the Board of Trustees.
1873, December 24.	Death of the Founder [born May 19, 1795].
1874, February 6.	First Business Meeting of the Trustees.
1874, December 30.	Election of a President of the University.
1876, February 22.	Inauguration of President Gilman.
1876, October 3.	Instruction of students began.
1886, April 26.	Celebration of the Tenth Anniversary.
1889, May 7.	Opening of the Johns Hopkins Hospital.
1893, October 1.	Opening of the Medical Department.
1894, October 1.	Opening of McCoy Hall.
1901, February 22.	Resignation of President Gilman.
1901, June 3.	Election of President Remsen.
1902, February 21, 22.	Celebration of the Twenty-fifth Anniversary.
1902, February 22.	Inauguration of President Remsen.
1902, February 22.	Gift of a New Site for the University.
1902, July 1.	Gift of a Million-Dollar Endowment Fund.

STATEMENTS IN RESPECT TO THE COURSES OF INSTRUCTION

The Johns Hopkins University offers instruction to the following classes of students:

I. UNDER THE FACULTY OF PHILOSOPHY.

1. College graduates, who may proceed to the degree of Doctor of Philosophy, or may work for longer or shorter periods in the various seminaries and laboratories without reference to a degree.

2. Undergraduate students looking forward to the degree of Bachelor of Arts and following any one of seven parallel groups of study.

3. Students who have not taken a degree and are not looking forward to a degree, but who desire to avail themselves of the opportunities here afforded.

II. UNDER THE FACULTY OF MEDICINE

1. Candidates for the degree of Doctor of Medicine, for whom a four years' course is provided. These candidates must be college graduates, or must give evidence, by examination, that they possess attainments indicated by a baccalaureate degree in arts or science. Women are admitted on the same terms as men.

2. Doctors of Medicine desiring to pursue certain special courses, which are annually announced.

I. FACULTY OF PHILOSOPHY

Advanced and graduate students are received whether they are candidates for a degree or not, and they are permitted to attend such lectures and exercises as they may select. On entering the University they are expected to present their diplomas and certificates from the institutions with which they have been connected, and also letters of introduction. They are not examined by the University for admission, but each instructor satisfies himself of the attainments of those who wish to follow his guidance, before admitting them to his classes.

The professors are free to give personal counsel and instruction to those who seek it; books and instruments adapted to investigation and advanced work have been liberally provided; seminaries limited to a few advanced students have been organized in various subjects; societies devoted to philology, to mathematical, physical, and natural science, and to history and political science, afford opportunities for the presentation of memoirs and original communications, and there are also clubs for the reading and discussion of philological, biological, physical, geological, and chemical papers; during the year courses of lectures are given by resident and non-resident professors on topics to which they have given special attention; the libraries of the Peabody Institute and Maryland Historical Society, founded for the advantage of scholars, are easily accessible; the issuing under the auspices of the Trustees, of publications devoted to mathematics, chemistry, philology, biology, the modern languages, and history brings the University into advantageous connection with other foundations; and the University reading room, which is constantly open, is liberally supplied with new and standard books and with the literary and scientific journals of this and other lands.

Instruction is carried on in the different departments by

methods which vary with the nature of the subject and the character and proficiency of the scholars; but in all alike the end is the same,—that, while the student is becoming familiar with the work prosecuted and the results attained elsewhere, and is adding to his general intellectual culture, he may be encouraged to become himself an independent and original investigator in his chosen field of labor. Within reasonable limits the University will provide such books, apparatus, and material as may be requisite for this purpose.

The principal subjects in which advanced instruction is now provided are these:

Mathematics.
Physics.
Chemistry.
Geology, Mineralogy, and Petrography.
Zoology.
Botany.
Physiology.
Anatomy.
Pathology.
Greek.
Latin.
Sanskrit and Comparative Philology.
Semitic Languages.
Anglo-Saxon and English.
Romance Languages.
German.
History.
Political Economy.
Political Science.
Philosophy and Psychology.

Mathematics

The instruction in Mathematics is at present entrusted to Professor Morley, Dr. Hulburt, Collegiate Professor of Mathematics, and Dr. Cohen, Associate in Mathematics.

The less advanced subjects are nearly the same every year. The more advanced courses vary from year to year, and are so arranged that a student who remains here two or three years may receive continued and systematic guidance in the main lines of modern mathematical research. The subjects of the advanced courses may be broadly classified as follows:

Theory of Numbers, Theory of Finite Groups, Theory of Transformation Groups, Theory of Invariants.

Higher Plane Curves, Line Geometry, Geometry of Circles and Spheres, General Projective Geometry, Differential Geometry.

Theory of Functions of Real Variables, Theory of Functions of a Complex Variable, Theory of Functions of Two Complex Variables; Elliptic Functions, Elliptic Modular Functions; General Automorphic Functions, Abelian Functions, Ordinary Differential Equations, Partial Differential Equations; Calculus of Variations.

Kinematics, Theoretical Dynamics, Theory of the Potential, Theory of Probabilities.

The Mathematical Seminary meets weekly.

Undergraduates are annually instructed in Elementary Analytic Geometry, Theory of Equations, Elements of Projective Geometry, Differential and Integral Calculus, Differential Equations, Solid Analytic Geometry.

A large number of mathematical journals are regularly received, besides the publications of learned societies abroad and at home. Among the journals received are the following (the asterisk indicating full sets):

Journal für die reine und angewandte Mathematik* (Crelle); Journal de Mathématiques pures et appliquées* (Liouville); Comptes Rendus; Mathematische Annalen*; Monatshefte für Mathematik und Physik*; L'Intermédiare des Mathématiciens*; Bulletin des Sciences mathématiques*; Journal de l'École Polytechnique; Annales de l'École Normale; American Journal of Mathematics*; Annali di Matematica*; Giornale di Matematica*; Acta Mathematica*; Archiv für Mathematik und Physik* (Grunert); Zeitschrift für Mathematik und Physik*; Proceedings of the London Mathematical Society*; Bulletin of the American Mathematical Society*; Transactions of the American Mathematical Society*; Bulletin de la Société mathématique de France*; Rendiconti del Circolo Matematico di Palermo*; Quarterly Journal of Mathematics*; Messenger of Mathematics; Annals of Mathematics.*

The University has a collection of about two hundred and thirty geometrical models, illustrating the forms of mathematical solids, surfaces, and curves, their singularities and varieties, and the methods of descriptive geometry by which they are represented on a plane.

The American Journal of Mathematics, founded by

Professor Sylvester, and edited successively by Professor Craig, Professor Newcomb, and Professor Morley, has completed its twenty-sixth volume. Beginning with volume X, there has been published in each volume the portrait of an eminent mathematician. Those so far published, in the order of publication, are as follows: Sylvester, Hermite, Poincaré, Cayley, Klein, Halphen, Lie, Picard, Appell, Fuchs, Darboux, Newcomb, Mittag-Leffler, Salmon, Peirce, Cremona, Noether.

Physics

The instruction in Physics is under the charge of Professor Ames, Director of the Laboratory, with the aid of Professor Wood, Collegiate Professor Bliss, Dr. J. B. Whitehead, and several assistants.

The laboratory is a substantial brick building 117 feet long by 71 feet wide, with five stories besides a basement and a sub-basement, and is so situated as to receive light from all sides. Power and heat are furnished from separate buildings.

The physical apparatus includes an equipment for lectures and demonstrations and a valuable collection of instruments for both elementary work and research. Many of these have been made from special designs, others are standard instruments which have been purchased from European and American makers; all of them have been most carefully selected. Special facilities, in some cases almost unique, are afforded those wishing to carry on investigations in electricity and in light.

The physical and mathematical libraries of the University are now placed in McCoy Hall, where they are easily accessible at any time. The physical section contains complete sets of almost all the physical journals published in this country and abroad, and all the standard

books of the present and the past. About sixty periodicals, English, French, German, and Italian, are received. Certain magazines and books of reference are retained in the Seminary room of the laboratory, where the advanced students can consult them at any moment. This small collection is specially selected each year with reference to the courses of advanced instruction offered that year. Among the magazines kept on file in the laboratory are the following:

Philosophical Magazine, Physical Review, The Astrophysical Journal, Annalen der Physik and Beiblätter, Physikalische Zeitschrift, Journal de Physique, Comptes Rendus, Proceedings and Transactions of the Royal Society of London, the Proceedings of the London Physical Society, L'Éclairage Électrique, and the Electrician (London.)

Through the generosity of a former student, a special collection of spectrum-maps and of books and pamphlets dealing with spectroscopy is now being made, and will be kept in the laboratory for the use of students.

Instruction and facilities for work in the laboratory are offered all classes of students, elementary and advanced. The following is a general view of the courses:

First Year (Minor) Course.—This is intended for students who are beginning Physics, or who have not a sufficient knowledge of the principles of the subject to warrant their undertaking more advanced work. To enter this course a student must be able to use logarithms and must have studied plane trigonometry, at least as far as through the solution of right-angled triangles. The lectures are accompanied by demonstrations; and mechanics, sound, heat, electricity and magnetism, and light are taken up in succession. Recitations on the subjects treated in the lectures are held regularly, and the course continues, four hours weekly, through the year. Along with the lectures the student does regular work in the laboratory, two afternoons a week, performing simple quantitative experiments, which illustrate the facts and principles con-

sidered in the class-room. Written records of lectures and reports of laboratory exercises are required.

Second Year (Major) Course.—This is designed to meet the needs of students who have already taken either the first year's course, or its equivalent, and who wish to pursue further their physical studies. A working knowledge of analytic geometry and calculus is required for admission to this course. The lectures take up both the descriptive and the mathematical side of the subject. Recitations are held regularly, and the course continues, four hours weekly, through the year. The laboratory work of this year occupies two afternoons a week, and includes problems that present greater difficulties, experimental or theoretical, than those of the first year. The student is allowed the choice of work in mechanics and electricity, or in heat and light. Written records and reports are also required in this course.

Advanced Work.—For the instruction of those students who have the necessary preparation, certain lectures are given in Mathematical Physics. There is one course, continuing through three years, which includes Mechanics, Hydrodynamics, Sound, Thermodynamics, Heat Conduction, Physical Optics, Electricity and Magnetism. A second course of lectures is given, in which different subjects are treated in different years. During the year 1903-04, the topics were Physical Optics and Spectroscopy.

These lectures develop the mathematical theory of the subjects; and to follow them the student should have a satisfactory knowledge of differential equations and analytic geometry of three dimensions. Authors like Lord Kelvin, Lord Rayleigh, Maxwell, von Helmholtz, and Poincaré are referred to continually, and the ability to read French and German is absolutely necessary.

There is also a course of instruction, both theoretical and practical, in applied Electricity. This course is intended for graduate students only.

The advanced students meet with the instructors once a week for the discussion of the current physical journals. Carefully prepared reports on various articles are here presented.

The Physical Seminary, to which only the most advanced students are admitted, meets once each week. The work of the seminary consists of two distinct exercises. One is the reading of some physical treatise and a consideration of the problems suggested by it; the other is the presentation of critical papers upon various assigned topics in connection with the courses of lectures.

An effort is made to render the laboratory as useful as possible to advanced students and investigators. Those who are prepared for such work, will have the facilities which it affords placed most freely at their disposal, and will receive all possible assistance.

Chemistry

The instruction in Chemistry is under the charge of Professor Remsen, Director of the laboratory, with the cooperation of Professor Morse, Adjunct Director, Professor Renouf, Dr. Gilpin, Dr. Jones, Associate Professor of Physical Chemistry, and Dr. Waters.

The higher or graduate work is based upon that given in the two years' undergraduate course, and those graduates of other colleges who have not followed courses equivalent to this, begin with that part of the undergraduate work which appears best suited to their needs. The following outline of the work will give some idea of its character.

Undergraduate Courses

Professor Renouf and Dr. Gilpin.

First Year.—I. Three lectures per week by Professor Renouf. The ground covered is approximately that laid down in Remsen's "Introduction to the Study of Chemistry." Toward the close of the year about twenty lectures on organic chemistry are given.

II. One review per week, conducted by Professor Renouf and assistant.

III. Laboratory work from five to six hours weekly, under the guidance of Dr. Gilpin and assistants. The work consists of the experiments given in the text book, simple qualitative analysis, and in the making of certain chemical preparations.

Second year.—I. From October 1 to December 25, four lectures or reviews per week by Dr. Gilpin upon topics in inorganic chemistry.

II. From January 1 to the end of the year, four lectures or reviews per week by Dr. Gilpin on organic chemistry.

III. Laboratory work from five to six hours weekly under the guidance of Professor Renouf. From October 1 to December 25, the students devote themselves to systematic qualitative analysis, while the remainder of the year is given up to the preparation of such organic compounds as will facilitate their progress in course II.

Graduate Courses

Professor Remsen, Professor Morse, Professor Renouf, Associate Professor Jones, and Dr. Waters.

I. Weekly journal meetings, conducted by Professor Remsen.

II. Three lectures weekly throughout the year on organic chemistry, by Professor Remsen.

III. Twice weekly and extending over two years, a course of lectures by Professor Morse on (*a*) sources of error in quantitative measurements and their correction

(about 20 lectures); (*b*) early historical chemistry (about 24 lectures); (*c*) inorganic chemistry (about 80 lectures).

IV. Three lectures per week throughout the year on physical chemistry, by Professor Jones.

V. Laboratory work. (*a*). Qualitative analysis and inorganic preparations under the direction of Professor Renouf. (*b*). Quantitative chemistry under the direction of Professor Morse. About one year is allotted to this work, and the course is so planned as to give the student familiarity with the greatest practicable variety of quantitative operations. (*c*). A course of physical-chemical measurements lasting about two months, under the direction of Professor Jones. (*d*). A course in the preparation of organic compounds, under the supervision of Professor Remsen and Dr. Waters. The work in this direction usually occupies about three months, and has for its object a study of the more important reactions of organic chemistry. (*e*). The original investigation of problems assigned by members of the teaching staff, the results of which—if they are found to have a substantial value for the science—may be used in the preparation of the dissertation for the doctor's degree.

As regards the time required by a graduate student to complete the work for the degree of Doctor of Philosophy, it can only be said that one who has the necessary qualifications can generally do it in three years, after following such a course as that given to the undergraduates of this university who take the two years' course in chemistry. Those who have not had this preparation will generally require a longer time. There are no stereotyped courses leading to the higher degree, and it is impossible to say exactly what must be accomplished to attain it. What is desired is a certain maturity of mind with reference to the science of chemistry, and an ability to deal with chemical problems intelligently. This condition of mind is reached, if reached at all, by long-continued laboratory training

accompanied by careful study of chemical journals and treatises. It may be said finally that the arrangements of the laboratory are made mainly with reference to those who wish to take up the study of chemistry in a broad way, and that those who want short courses in special branches of chemistry are not advised to come here. It is believed that whatever object the student may have in view, whether he intends to teach or to follow some branches of applied chemistry, the best preparation he can have is a thorough training in the pure science.

The American Chemical Journal, edited by Professor Remsen, is now in its thirty-first volume.

Geology

The instruction in Geology is under the direction of Professor Clark, assisted by Professor Reid, Dr. Mathews, Dr. Shattuck, Dr. Fassig, and Dr. Martin.

The courses are offered to both graduate and undergraduate students and consist of lectures, laboratory and field work, and conferences upon topics of current literature.

Lecture Courses.—I. General Geology.—This course is planned to serve as an introduction to all work in geology, for both undergraduate and graduate students, irrespective of the particular department in which they may choose their principal subject. The lectures embrace a general survey of the whole field of geology, and are illustrated by rocks and fossils, by maps and sections, and by lantern views. Excursions are made on Saturdays, during the autumn and spring months, into the surrounding country. During the winter months an afternoon weekly is devoted, in the laboratory, to the exposition of specimens of rocks, fossils, and minerals.

II. Paleontology.—Attention is devoted to both the bio-

logical and geological relations of the important types of the animal and plant kingdom.

III. Historical Geology.—In this course the classification and distribution of the sedimentary rocks are fully considered. The value of fossils in the determination of horizons is explained, and a detailed study made of the geological literature of the different countries of the globe.

[Courses II and III are given in alternate years, if thought desirable.]

IV. Geological Physics.—In this course the size and shape of the earth, the temperature, rigidity, age, magnetic conditions, etc., are discussed; also, geological phenomena, which depend directly upon physical principles, such as volcanoes, earthquakes, geysers, flow of rivers, production of folds, faults, etc.

V. Exploratory Surveying.—The simple methods of determining geographical position; the methods of rapid route-surveying; the use of the plane-table, the camera, etc., are considered with especial reference to travellers and explorers. The principles of map projection are explained. Practical instruction in the use of the instruments is given.

VI. Geological Field Methods.—The practical methods of making geological maps in regions of eruptive, metamorphic and stratified rocks are taken up, and the criteria for recognizing faults, unconformities, etc., are discussed, and applied to working out the structure of a region in the field and to the construction of geological sections.

VII. General Mineralogy.—This course is divided into three parts. The lectures treat of the crystallography, the general physical properties, and the description of mineral species. The laboratory course includes work with crystal models, goniometers, and blow-pipes. Emphasis is laid on the mode of formation and geological occurrence of minerals. The course closes with a discussion of the leading types of rocks.

VIII. Advanced Mineralogy.—The lectures include a full discussion of optical and microscopical mineralogy. Especial attention is given to the behaviour of minerals as constituents of rock masses.

IX. Petrography.—This course includes a discussion of methods and a description of the structures and physical properties of rocks. The second portion of the course is devoted to the special petrography of the igneous rocks, including a study of their various classifications and a discussion of their origin, distribution and literature. The consideration of the more common sedimentary and metamorphic rocks concludes the course.

[Courses VIII and IX are given in alternate years, if thought desirable.]

X. Climatology.—In this course of lectures the topics chiefly considered are: Heat and its distribution over the earth's surface; rainfall and evaporation—their distribution and effects; winds and storms; weather sequences as illustrated by the daily weather charts of the U. S. Weather Bureau; extent to which topography influences the distribution of the climatic elements; variability of climates; organization and methods in statistical meteorology.

XI. Physiographic Geology.—This course deals primarily with the description of topographic forms, and includes a discussion of their origin and classification. The lectures are illustrated with maps, models, and lantern views.

XII. Economic Geology.—This course deals with the theories relating to the genesis of ore deposits and other economic products of a mineral character.

Laboratory Work.—Laboratory courses are arranged to accompany the lectures, while advanced or special students are given the opportunity to carry on fuller investigations upon either described or new materials. For those who plan to carry on original investigations large

series of undescribed materials are accessible, while the immediate region affords exceptional opportunities for further collecting. Several such investigations have already been published, while others are at the present time under way in the laboratory.

Conferences and Student Lectures.—In order that the advanced students may be kept in touch with the most recent investigations in geology, weekly conferences are held at which the leading geological journals are reviewed by the students under the direction of the instructors. In order that the students may likewise have the experience necessary for the successful preparation and delivery of class-room lectures, a course upon some phase of geology is arranged each year, a special topic being assigned to each student.

Field Work.—The area of the State of Maryland includes, notwithstanding its comparatively small size, a remarkable sequence of geological formations. The ancient rocks of the earth's crust, as well as those still in the process of deposition, are found, while between these wide limits there is hardly a geological epoch which is not represented. Facilities are afforded for a study of these various geological formations.

During the autumn and the spring, excursions are made Saturdays into the surrounding country, the crystalline areas and the various Cretaceous and Tertiary formations being readily accessible. More extensive excursions are made from time to time into the early Mesozoic and Paleozoic areas of the western portion of the State, and into the highly fossiliferous Tertiary region of the lower Chesapeake Bay. After the student has become familiar with the various regions under the guidance of the instructors, he is encouraged to take up the study of some specified area, where, according to his inclinations, he may carry on investigations upon the older crystalline rocks or the later fossiliferous strata. Several dissertations upon

subjects of this nature have already been presented for the degree of Doctor of Philosophy.

Geological Laboratory and Library.—The Geological Laboratory is situated in Hopkins Hall, and comprises over thirty rooms, large and small. Here are placed the library, apparatus, and collections, which are accessible to the student daily from 9 a. m. to 5 p. m.

In accordance with the custom of the University, those books relating to the work of the geological department are given into its charge, the books of general reference being retained in the University Library. The geological library contains most of the leading journals and works of reference upon geological subjects. It consists of over 6,000 bound volumes and over 10,000 unbound volumes and pamphlets.

In addition to the libraries belonging to the University, the Peabody Library, rich in geological works, is available for the use of students, while books not obtainable in Baltimore may be readily consulted in the libraries of Washington.

Collections and Apparatus.—The collections of the department consist primarily of a large amount of important material brought together from Maryland and adjacent States. It represents all the horizons of the State, being especially rich in crystalline rocks and in Silurian, Devonian, Carboniferous, Cretaceous, and Tertiary fossils. Some of this material has already been described, while much awaits further study. Among the most important of the special collections are the Williams, Lewis, Krantz, Hill, Stürtz, Lehmann, and Allen collections.

The department is also provided with numerous models, photographs and lantern slides, several goniometers, a dissolving stereopticon, more than a dozen microscopes of late design, an electric machine for preparing rock-sections, a complete suite of wooden and glass crystals,

together with other important pieces of apparatus for special work.

State Scientific Bureaus Connected with the Geological Department.—Two scientific bureaus, established by the Legislature and maintained at the expense of the State, are carried on in connection with the geological department. They are the Maryland Geological and Economic Survey and the Maryland State Weather Service. Professor Clark is in charge of both of these organizations, which are concerned in a study of the geology and physical features of the State of Maryland. The work is carried on under his direction mainly by the instructors and students of the department.

Advantages Afforded by Proximity to Washington

Geological Society of Washington.— The advanced students in Geology are members of the Geological Society of Washington, where they have the opportunity of hearing the results of the latest investigations presented by some of the leading workers in the science, and also have the chance to enter into the discussions or offer original papers of their own. The bi-weekly meetings are frequently attended by the instructors and students of the department.

National Geographic Society.—Like opportunities are open to the advanced students of the University to become members of the National Geographic Society. As some of the most distinguished explorers and scientists lecture before this Society, unusual opportunity is presented to hear the results of their researches.

Scientific Collections and Libraries.—The scientific collections and libraries of the Smithsonian Institution, United States National Museum, and United States Geological Survey, as well as the Library of Congress, are accessible to students under certain conditions.

Zoology and Botany

The work in Zoology and Botany is directed by Dr. W. K. Brooks, Professor of Zoology, assisted by Dr. E. A. Andrews, Associate Professor of Biology, Dr. D. S. Johnson, Associate Professor of Botany, Dr. Caswell Grave, Associate in Zoology, Dr. B. W. Barton, Lecturer in Systematic Botany, and other assistants.

Advanced Zoology: Professor Brooks and Associate Professor Andrews.

This course is designed for students who wish to devote themselves to zoology, and for those who select zoology as the chief subject for the degree of Doctor of Philosophy. The work is as follows:

(1). Laboratory work throughout the year. The student is required to verify the results of certain zoological memoirs, which are selected in order to illustrate the application of technical methods, as well as scientific principles, and, also, to study the collateral literature. After he has completed this work the student is allowed more freedom in the selection of subjects.

(2). In 1903-1904, four lectures a week by Professor Brooks on General Embryology, from October 1 to February 1; six lectures by Dr. Grave on Echinoderms, in April.

(3). Zoological Seminary, daily in March, April and May 1904. The work of the Seminary for this year is based upon the *Entwickelungsgeschichte* of Korschelt and Heider.

(4). Zoological and Botanical Journal Club, weekly throughout the year: Professor Brooks, Associate Professors Andrews and Johnson. All graduate students, assistants, and instructors are expected to take part in the meetings of the journal club, and to report upon the current literature of assigned topics.

General Zoology and Comparative Anatomy: Associate Professor Andrews and Dr. Grave.

The work is as follows:

(1). Two afternoons of work in the laboratory, throughout the year, in systematic zoology and comparative anatomy and embryology, or in botany. The student makes careful dissections and drawing of typical forms from most of the principal groups of vertebrated animals, and studies the systematic zoology of the genera and species of one group, either fishes or insects being selected for systematic study. The course also provides training in the collection and preservation of embryological material, in the use of hardening and staining reagents and in the preparation and preservation of serial sections for microscopic study.

(2). Two lectures a week, from the beginning of the year to April 1, on elementary zoology, by Dr. Grave.

(3). Two lectures a week, from the beginning of the year to April 1, on elementary botany, by Associate Professor Johnson.

(4). Four lectures a week, from the Easter recess to the end of the year, on embryology, by Associate Professor Andrews.

Courses 1, 2, 3, and 4, with laboratory work, five hours a week through the year, constitute a "major course," and may be offered as a subordinate subject for the degree of Doctor of Philosophy.

Introductory Course in Biology: Associate Professor Andrews and Dr. Barton.

This course, consisting of four lectures and five hours of laboratory work weekly, throughout the year, is designed as part of the general education of every college student, and is open to all candidates for the A. B. degree, as well as to special students. It is regarded as essential to all students intending to take up the study of medicine, and it (or an equivalent) is required for admission to the

medical department. This course may be taken without previous courses in physics and chemistry, but preparatory training of this character is strongly recommended. It is chiefly a laboratory course of two afternoons a week throughout the year, supplemented by four hours a week of lectures, recitations, and exercises designed to emphasize the more essential truths of biology. In the laboratory, each student studies with the microscope, or dissects, selected plants and animals, from the simpler, such as amoeba and yeast, to the complex, such as the fern, the frog, the flowering-plant, and the rat. He also studies the elements of systematic botany. This course may be offered as a subsidiary subject for the degree of Doctor of Philosophy.

Advanced Botany: Associate Professor Johnson.

(1). Morphology of Plants. Two lectures and two laboratory exercises a week, throughout the year.

(2). Physiology and Histology of plants. Two exercises a week, throughout the year.

(3). Botanical Seminary, twice weekly through the winter term. Schimper's "Plant Geography" formed the basis for the seminary work during 1903-04.

Courses 1, 2, and 3 may be offered as a subordinate subject for the degree of Doctor of Philosophy.

Students of Botany have access to the extensive herbarium and valuable library of Captain J. Donnell Smith, the Schimper herbarium, the Fitzgerald collection of moses, the local collections of the Naturalists' Field Club, and the collection of Cryptogams of the late Dr. Humphrey.

The studies which are carried on in the biological laboratory are supplemented by work at suitable points upon the sea-shore.

One of the ordinary fellowships in the University is usually awarded each year to a graduate student in

zoology, and, in the selection of the Adam T. Bruce Fellow, preference is given to those who have held ordinary fellowships in zoology.

One of the graduate students of zoology may be appointed each year to occupy, during the summer months, the university table at the laboratory of the United States Fish Commission at Wood's Hall.

Whenever researches, or parts of researches, which have been carried on in the laboratory, are completed and ready for publication, the University Circulars provide for the prompt publication of abstracts of the results.

Students looking forward to the degree of Doctor of Philosophy may offer zoology as a principal or as a subordinate subject, but if they have not already pursued studies equivalent to the undergraduate courses in this laboratory, they will be required to take these courses.

Physiology

The work in Physiology is directed by Professor W. H. Howell, assisted by Dr. P. M. Dawson and Dr. J. Erlanger, Associates in Physiology, and Mr. E. G. Martin, Assistant in Physiology. The laboratory is contained in one of the medical department buildings adjoining the hospital, and is well equipped with facilities for demonstrations and special investigations. A course of lectures covering the general and special physiology of the animal body is given each year and is illustrated by a large number of class demonstrations. In connection with this series of lectures, a laboratory course in experimental physiology is offered, extending over a period of twelve weeks and giving the student an introduction to the methods of laboratory technique. A duplicate course, consisting of lectures and laboratory work, has been arranged especially to suit the convenience of graduate students

in the philosophical department. This course is given in the afternoons from January to June. The general courses of lectures are supplemented by advanced lectures given from time to time upon selected topics; by the work of the physiological seminary, which meets at stated intervals for the special study of certain parts of physiology; and by a weekly journal club intended for the presentation and discussion of the material contained in the current periodicals. The details of these courses are given in the programme published each year in the University Circulars.

In addition to the physiological literature contained in the library belonging to the laboratory, publications upon physiology and the related scientific branches of medicine may be obtained conveniently from the libraries of the Medical School, the Medical and Chirurgical Faculty of Maryland, and the Surgeon General's office in Washington.

Students looking forward to the degree of Doctor of Philosophy may offer Animal Physiology as a principal or as a subordinate subject. Those who take physiology as a principal subject must present evidence of previous training in physics equivalent to the minor undergraduate course in this University, in chemistry equivalent to the minor and major undergraduate courses, and in biology equivalent to the minor and major undergraduate courses. No preliminary requirements are made for those offering Physiology as a subordinate subject.

The laboratory is open also to special students, graduates in medicine and others, who may wish to undertake laboratory investigations, or who desire to become acquainted with the use of physiological apparatus and the methods of demonstration and research.

Anatomy

The work in this department is in charge of Dr. Franklin P. Mall, Professor of Anatomy, with the co-operation of Dr. Ross G. Harrison and Dr. Charles R. Bardeen, Associate Professors of Anatomy, Dr. Warren H. Lewis and Dr. Florence R. Sabin, Associates in Anatomy, Dr. Henry McE. Knower, Instructor in Anatomy, and Dr. Augustus G. Pohlman and Dr. George L. Streeter, Assistants in Anatomy.

Courses of instruction are provided in the various anatomical sciences—systematic human anatomy, histology, microscopic anatomy, and embryology,—and opportunities are afforded for advanced work and original investigation in these sciences.

The systematic courses of instruction are given in two groups of parallel courses, from October 1 to March 15. The first of these groups includes histology, microscopic anatomy, and neurology; the second embraces the subject of gross systematic human anatomy. These courses are designed primarily for the medical students of the university, but are open to other students who are properly qualified. A more detailed description of them will be found in the announcement of the medical department.

The Anatomical Laboratory is a large building, three stories high, having been constructed especially for the teaching of anatomy and for investigation in this subject. The modern machines and apparatus likely to be needed have been provided. Rooms and apparatus for animal experimentation, mechanism of convenience for drawing and reconstruction, projection apparatus, photomicrographic outfit, and apparatus for work at low temperatures are at hand. Facilities are afforded for the artistic illustration and publication of the results of researches leading to discoveries of importance. Every encouragement is given to suitably-trained individuals who desire to undertake original investigation, either under direction or independently.

Pathology

The Pathological Laboratory is a building of four stories on the grounds of the Johns Hopkins Hospital, with which it is connected. The autopsy theatre is in this building, which includes also rooms for pathological histology, bacteriology, experimental pathology, and private work. The museum contains a useful collection of morbid specimens.

The libraries of the Johns Hopkins Hospital and the Medical Department close to the laboratory contain a large number of books of reference and receive regularly the chief medical and pathological journals.

Facilities are offered for elementary and advanced study in general and special pathological anatomy, general pathology, and bacteriology. The instruction in Pathology and Bacteriology is given by Professors Welch and MacCallum and Drs. Opie, Marshall, Ford, and Bunting.

The instruction in pathology and bacteriology for matriculates in the medical department continues throughout the second year of the regular medical course. It includes general pathology, gross morbid anatomy, pathological histology, the technique of post-mortem examinations, and practical bacteriology. The course in bacteriology extends from the first of October to the Christmas vacation, and that in pathology throughout the rest of the academic year. The laboratory work occupies three half-days a week.

A course in pathological histology for physicians is given by Professor MacCallum and assistants during the months of May and June. This course presupposes a knowledge of normal histology. In connection with the course, demonstrations of fresh pathological specimens are made and opportunity is afforded to become familiar with the method of making post-mortem examinations. After the study of inflammation, the pathological his-

tology of the different tissues and organs of the body is taken up in regular order. Microscopical sections are given to be stained, mounted, and carefully studied and drawn. The student is encouraged to do as much independent work as his time will permit.

The instruction in bacteriology is given by Professor Welch, Dr. Ford, and assistants. In addition to the course for matriculates in the medical department, a course in this subject is given to physicians in May and June. Students are taught the preparation of culture media, the principles of disinfection and sterilization, methods of cultivating, staining, and studying bacteria, particularly those of a pathogenic nature, and the biological examination of air, water, and soil. This department is fully supplied with the requisite apparatus and cultures for bacteriological work.

In addition to the regular courses for medical students and physicians, opportunity is afforded for advanced work and special research in pathology and bacteriology. For these purposes the pathological laboratory is well equipped with the necessary apparatus and material. Special subjects for research will be assigned to those who wish and are prepared to undertake original investigation.

Instruction in clinical microscopy is given to physicians, during May and June, in the clinical laboratory.

The pathological laboratory being upon the same grounds with the Johns Hopkins Hospital and Dispensary, the opportunities are convenient and readily accessible for combining clinical studies with the work in pathology.

Three associations, the Hospital Medical Society, the Historical Club, and the Journal Club, meet in the assembly room of the hospital, on each Monday evening, and 'The Laennec,' a society devoted to the study of tuberculosis, holds monthly meetings. The libraries of the university and the hospital are supplied with a large

collection of medical books and periodicals, which are accessible to the student.

The Johns Hopkins Hospital Bulletin, issued monthly, and the Johns Hopkins Hospital Reports contain the proceedings of the hospital societies, articles by the medical staff, and the results of researches conducted in the hospital and the medical laboratories.

Fuller details concerning the courses in pathology, bacteriology and other medical subjects will be found in the Annual Catalogue and Announcement of the Medical Department, which will be sent upon application to the Registrar.

Greek

The graduate instruction in Greek is directed by Professor Gildersleeve, in connection with the Greek Seminary, which consists of the Director, Fellows, and Scholars, and such advanced students as have satisfied the Director of their fitness for an active participation in the work. All graduate students, however, may have the privilege of attending the Seminary exercises.

Each regular member is required to take his turn in the work of the Seminary, and special fields of research are assigned according to progress or bent.

The cycle which has been followed for some years is made up of the Attic Orators, Plato, Aristophanes, and the Greek Historians. For example:

1900-1901.	Attic Orators.	1902-1903.	Aristophanes.
1901-1902.	Plato.	1903-1904.	Greek Historiography.

The methods followed have been described in successive annual reports, which may readily be consulted.

The work in the Seminary during the present year was concentrated on Greek Historiography; for the next year the centre of work will be transferred to the Attic Orators.

In addition to the work of the Seminary (two meetings a week), courses of lectures are given by the Director, by Associate Professor Miller, and by other qualified persons.

Undergraduate students who select the classical group of studies are required to follow the class-work in Greek, four hours weekly through two years. The texts vary from year to year, including selections from poets, historians, and orators. Exercises in Greek composition and in reading at sight are likewise required. To extend the acquaintance of the student with Greek literature, he is obliged to read by himself certain prescribed authors, and to pass an examination upon them. An elective course of two hours a week for a half-year is also provided. The instruction of the undergraduates in Greek is conducted chiefly by Associate Professor Spieker.

The American Journal of Philology, edited by Professor Gildersleeve, has completed its twenty-fourth volume.

Latin

Instruction in Latin is given on a plan similar to that already mentioned as followed in the courses in Greek. The advanced work proceeds through the organization of a Seminary, of which Professor Smith is the Director. The instruction has two distinct ends in view. It aims, first, to give students a wider and more accurate knowledge of the Latin language and literature than can be secured in the ordinary college course, so that they may become more efficient teachers; and, secondly, to train them in the methods of scientific research, so that they may become independent investigators. The most important instrument of training is the Latin Seminary, which meets twice a week. Each year some author or group of authors in a given department of literature is

made the centre of work. Critical methods are taught, interpretations are prepared by members of the Seminary in turn, and papers are read by them containing the results of various special investigations suggested by the taste and proficiency of each. The subjects treated during the last four years are as follows:

1900-1901. The Roman Historians, especially Livy and Tacitus.
1901-1902. The Roman Epic, especially Vergil.
1902-1903. The Roman Drama, especially Plautus and Terence.
1903-1904. The Roman Satire, especially Horace and Juvenal.

Courses of lectures are also regularly given by the Director of the Seminary and from time to time by other qualified persons. For example, in 1903-1904, Professor Smith lectured on the Roman Satire once a week throughout the year. During the first half-year he lectured each week on the Roman elegy, and during the second half-year on the Roman epigram. He also conducted a Journal Club, which met every two weeks to report and discuss recent philological publications in the field of Latin and Greek. Associate Professor Wilson lectured once a week during the year on Latin Epigraphy. The course was accompanied by a series of papers and practical exercises in the interpretation of inscriptions. Throughout the year, he also met the advanced students once a week for rapid reading, with brief comment, of the Roman Satire.

The undergraduate work varies somewhat according to the group of studies elected. The authors read differ year by year, but are so chosen that the student may become acquainted with the different departments of the literature. His work in the classroom must be supplemented by a prescribed course of reading which he follows privately, and on which he undergoes examination. Latin composition and sight reading form a part of the course. An elective course of two hours a week and a course in Roman literature, one hour a week throughout one year, are also provided. Associate Professor Wilson and Dr. Barret assist in this work.

Sanskrit and Comparative Philology

Courses of instruction, directed by Professor Bloomfield, with the assistance of the Fellow or Scholar in Sanskrit, are provided in the Indo-Iranian languages (Vedic and Classical Sanskrit, Pali and Prakrit, Avestan or Zend, and old Persian), in comparative grammar of the Indo-European languages, in historical ethnology of the Indo-European peoples, and in general linguistic science. During the sessions of 1897-99 and 1901-04 courses in the Lithuanian language and literature were given: instruction in one or another of the ancient languages of the Balto-Slavic (Lithu-Slavic) family may be hereafter expected as a regular feature of the work of the department.

These instructions aim to meet the wants of those who wish to devote themselves to the study of these branches exclusively and for their own sake, *i. e.*, those who wish to become specialists in Sanskrit philology or comparative philology; and also the wants of students of languages in general, who wish to obtain a broader linguistic basis for special studies in other departments of philology.

The advanced work aims especially to meet the wants of those who wish to make Indian philology or comparative philology their special study. Instruction is given by practical exercises, lectures, seminary work, and, where possible, the use of native Sanskrit manuscripts. The seminary is furnished with a carefully selected library (including some manuscripts); this has been increased recently by the Stratton Memorial Library, a valuable collection presented by the wife of the late Alfred William Stratton (Ph. D., 1895), and approximately complete sets of the Oriental journals, as well as the journals in comparative philology, are freely accessible in the main library.

A prolonged course in Sanskrit, involving two lectures a week during two years and attendance in the Vedic

Seminary for a half-year (one hour a week), is planned so as to furnish a good knowledge of classical Sanskrit, and to include an introduction into the dialect of the Vedas. This amount of work represents material sufficient for the first subsidiary subject for the degree of Doctor of Philosophy. A course in the same study for one and a half years, involving two hours a week, is the amount required for a second subsidiary subject leading to the same degree.

A synopsis of the courses offered during recent years may be presented under six heads:

I. Courses in the general principles of comparative philology or linguistic science, and on special chapters thereof; lectures on ethnology.

II. Courses in the general comparative grammar of the Indo-European languages; comparative grammar of Sanskrit and Avestan; comparative study of Greek accent; comparative study of Greek, Latin, Sanskrit, and Teutonic, including vocalism, consonantism, noun-formation, and inflections.

III. The Vedic, Sanskrit, and Prākrit dialects; Rig-Veda; Atharva-Veda; literature of the Brāhmanas and Upaniṣads. The law books of Manu and Yājñavalkya; the Drama Çakuntala and introduction into Prākrit, Hitopadeça, Kathāsaritsāgara, and Nala. Sanskrit grammar and prose composition.

IV. The Pāli language and Buddhist literature.

V. The Avestan language and the sacred books of the Avesta.

VI. The Lithuanian language and literature.

Oriental Seminary

In the Oriental Seminary, of which Professor Haupt is director, both introductory and advanced instruction is provided in Oriental history and archaeology, as well as in the principal Semitic languages, viz., Hebrew (both Biblical and post-Biblical), Biblical Aramaic, Syriac, Arabic (both classical and modern), Ethiopic, Assyrian, etc.; also in Sumerian, Egytian, Coptic, Malay, Tagalog, Visayan, etc. In the organization adopted in 1883, a course of three years was arranged. The centre of the work is the Old Testament, special attention being given

to the critical study of Biblical texts and the cuneiform inscriptions bearing on the Scriptures. Professor Haupt is assisted by Associate Professor Johnston and other competent instructors.

The various courses are adapted to the requirements of four classes of students, namely: (*a*) students of theology wishing to obtain a thorough acquaintance with the sacred tongue and its sister idioms as a means of elucidating Scripture and problems of the comparative history of religion; (*b*) students of linguistics intending to make comparative grammar of the Semitic languages their specialty; (*c*) students of Oriental history and archaeology desirous of drawing directly from the original sources; (*d*) persons looking for instruction in the living Oriental languages (as modern Arabic, Turkish, Persian, Amharic, Malay, Tagalog, etc.), for practical purposes.

In these various courses, the Seminary method is followed throughout, the student being from the first brought face to face with the several idioms without long theoretical introductions. Stress is laid on a thorough grammatical training, imparted in connection with the minute philological analysis of some selected text in the respective languages, or by written exercises in translating from English into Hebrew, Arabic, Syriac, and Ethiopic, or from Hebrew and Arabic into Assyrian, and from Assyrian into Sumerian, etc., printed grammars serving only for occasional reference. There are also exercises in Hebrew and Arabic conversation.

A room has been set apart containing a well-equipped working library for all the branches of Oriental research (including the library of the late Professor A. Dillmann, of Berlin, the Leopold Strouse Semitic Library, a special collection of works on the dialects of the Philippine Islands, etc.) and some advanced students are usually present to help in the preparation for the recitations conducted by the Director of the Seminary, and to furnish

any other aid that may be desired. Near the Dillmann Library, on the same floor, are some archaeological and antiquarian collections, including the Cohen Collection of Egyptian Antiquities, the Sonneborn Collection of Jewish Ceremonial Objects, collections of Hebrew and other Oriental manuscripts, Babylonian seal-cylinders and clay tablets, etc.

English

The instruction in English is given by Dr. James W. Bright, Professor of English Philology, Dr. William Hand Browne, Professor of English Literature, and Dr. Herbert Eveleth Greene, Collegiate Professor of English. Graduate and collegiate courses are provided in conformity with the principles followed in the other language departments. Advanced students are instructed in the technical aspects of linguistic and literary science, and trained in the processes of original investigation.

Graduate Courses

The advanced courses in English are so arranged as to enable a student, in three or four consecutive years, to study with precision all the important departments of grammar and of literature. Instruction is imparted by lectures, by freer conferences, by the methods of the Seminary, and by class-room recitation. The Seminary (four hours a week) constitutes the chief organ of instruction and research. It supplies means for the inculcation of what is presented in the lectures, and for organized and prolonged concentration of effort on selected subjects. Usually the work of the Seminary centres each half-year in a different period of the literature, ranging from Anglo-Saxon times to the present century. The literature of the period studied is investigated as to its sources, the history of its forms and traditions, and its artistic value; and

linguistically the period is studied in its relation to the history of the language. The members of the Seminary also meet as a Journal Club (fortnightly), chiefly for reviewing the current philological (linguistic and literary) periodicals and recently published books and monographs. As supplementing the lectures and the Seminary, classes are organized for special training in textual criticism, for the reading of the poets, and for the discussion of the canons of literary criticism. Weekly conferences and informal lectures furnish an opportunity for the discussion of many topics not provided for in the regular courses of the year; these hours are in part occupied by lectures given by the students, that they may thus acquire experience in the more formal presentation of the results of special study.

College Courses

1. *Rhetoric and English Composition.* In this course, which is required of all undergraduates, the principles of good writing are inculcated. The use of text-books is supplemented by lectures and discussions, by weekly practice in the writing of short papers, a few of which are read and criticised in the class-room, and by the writing of longer papers, which are read and criticised privately with the writers. During the first half-year the study is directed to the elements of style—the word, the sentence, and the paragraph. The weekly practice in writing is combined with an examination of the usage of standard writers. During the second half-year the various forms of composition—description, narration, exposition, and argument—are studied and practiced; the work also includes a critical study of standard prose in its various forms.

2. *English Literature.* The course in rhetoric is followed by a prescribed course in English literature; and an additional course, which is elective, is provided for those who may wish to continue the study. These courses are

for undergraduate students in Groups I-VI,—those who are not making a special study of the subject, but who wish such acquaintance with it as may be regarded a necessary part of a liberal education. The aim of the instruction in these courses is to give the student an outline history of English Literature, to teach him to read intelligently and with insight and to lead him to read widely in the works of the more important writers.

The Major and Minor Courses are followed by those undergraduates whose studies are directed more especially to modern languages and their literature (Group VII).

3. The English Minor Course consists of two parts, the one intended to give the student some grasp of English Literature as a whole, and the other to impart some fundamental knowledge of the language and its changes in the last eight hundred years, as a preparation for more advanced studies later. In both parts text-books are used, supplemented by oral teaching on the part of the instructor. In the first part, the object aimed at is not so much exact knowledge of any author or period, as a feeling of the continuity of the literature and knowledge of the principal causes that shaped and changed it. In the second part, Middle and Early English texts are read, but in an inverse chronological order, passing from the nearer to the more remote.

The Major Course in English—a third year's course—is divided between linguistic and literary studies:

4. *Anglo-Saxon.* An elementary course in Anglo-Saxon prose and verse occupies two hours a week for one year. The text-book used is Bright's *Anglo-Saxon Reader.*

5. In the literary part, one hour a week is given to the Early Scottish Poets from Barbour to Lindsay, whose work continues the great Northumbrian School of English literature down to the time of the Reformation in Scotland. The texts are studied in a Reader especially prepared for this class, and the necessary supplemental

information, historical and other, is given by the instructor.

6. One hour a week is also given to the study of some important period of literature or group of writers sufficiently characteristic to be regarded as a whole. For the first half-year the Elizabethan writers have usually been taken, including the reading by the class of one play of Shakespeare. For the second half some other period or group is selected.

It will be seen that the undergraduate work in the major and minor courses comprises: the earliest English, or Anglo-Saxon; the transitional literature from the Anglo-Saxon to Chaucer; the great period of Scottish literature between the times of Chaucer and Elizabeth; the great Elizabethans; and some important later period.

Romance Languages

Advanced instruction in Romance Languages is so planned as to cover at least three years, and is directed by Dr. A. Marshall Elliott, Professor of Romance Languages, with the assistance of Associate Professors Marden, Armstrong, and Ogden, and others. The subjects of instruction are divided into three distinct sections: a purely linguistic, a purely literary, and a composite group which is intended to unite the first two. Every one who intends to take a degree in Romance Languages must work in these three lines, which are so arranged as to supplement one another according to the attainments and bent of the student, and which are concentrated, for given periods of the course, on the same linguistic domain. The first year is chiefly spent in preparation for seminary work, to which the student is generally admitted, as an active member, at the beginning of the second year. During this preliminary period a practical knowledge of the

principal Romance languages is acquired (a thorough acquaintance with Latin and modern French being presupposed); a brief survey is given to the history of the science, together with an introduction to the use of scientific methods in language and literature. With this equipment the student is prepared to begin an appreciative scrutiny of special texts with their critical linguistic and literary apparatus. He is taught to handle his materials with discriminating judgment, and, according to his progress, subjects are assigned to him for investigation which tend to develop the patience and accuracy necessary to a careful investigator. In literature, as in language proper, particular attention is given to the origins, while constant reference is made, by way of comparison, to the modern forms. By extensive reading required in connection with the subjects taken up, he is made familiar with the different phases of opinion held by leading European scholars, and is thus enabled to control certain parts of his subject within well-defined limits. After the first year the student is expected to concentrate upon some single line of work within his general field. It will be observed that the student's work in this course is comparative, and that he moves from the general to the particular. In the early part of it, the object is to give a broad basis to work on, by making him so familiar with the principal Romance idioms that he may use them readily, by way of illustration, in his subsequent studies. Dialect study and phonology are made essential features of this plan of studies.

The subjects to which attention has been given in the Seminaries in past years are as follows:

1883-84. Anglo-Norman Dialect and the Oaths of Strasburg.
1884-85. Cantilene de Sainte Eulalie and Fragment de Valenciennes.
1885-86. The Franco-Norman Dialect, with the Vie de Saint Alexis.
1886-87. The Oaths of Strasburg and the Cantilene de Sainte Eulalie.

1887-88. Old French Paraphrase of the Canticum Canticorum and the Fragment de Valenciennes.
1888-89. The Oaths of Strasburg and the Cantilene de Sainte Eulalie.
1889-90. *Reimpredigt:* Grant mal fist Adam.
1890-91. L'Epopée royale: Pèlerinage de Charlemagne.
1891-03. Marie de France: Fables.
1902-03. The French Theatre in the Eighteenth Century.
Spanish: *Libre de Apollonio.*
Italian: The Earliest Monuments of Italian Literature.
1903-04. French: a. Marie de France: *Fables.*
French: b. The French Theatre in the Nineteenth Century.
Spanish: *Libre de Apollonio.*
Italian: The Earliest Monuments of Italian Literature.

In addition to the work of the Seminaries, lectures are regularly given: (1) on French phonetics, physiological and historical, (2) on French syntax, (3) on Romance morphology, (4) on French dialects, (5) on Dante, (6) on Old-French palaeography, (7) on the history of French Philology, (8) on the linguistic ethnography of France and Italy, (9) on the sources of Romance Philology, (10) on Popular Latin, (11) on Italian philology and literature, (12) on Spanish philology and literature, (13) on Old-French literature, (14) on Modern-French literature, (15) on Romance versification, (16) on methodology of the Romance languages, (17) on classical French literature.

The special lectures on French, Italian, and Spanish literatures are arranged to run through the whole period of three years, and form an integral part in the training of the student.

A special publication, Modern Language Notes (A. Marshall Elliott, editor in chief), now in its nineteenth volume, is issued monthly by members of the modern language departments, in which are presented the most recent aspects of linguistic and literary research in the modern idioms.

The undergraduate classes in French are conducted by the Associates of the department, under the direction of

the head of the department. Students in Group VII who elect French, follow class work for four hours weekly through two years, during which time they read extensive selections from Modern French texts, and are made acquainted with the general laws of French phonology and morphology. All undergraduates must complete the work of the first of these two years. Private reading is required, varying from year to year according to the authors taken up in class. Courses in Italian and Spanish, similar in arrangement and requirements to those in French, are also provided for undergraduates.

German

This group of studies is under the direction of Professor Wood, with the assistance of Associate Professor Vos, Dr. William Kurrelmeyer, and Mr. Hofmann.

Instruction is provided in German of all periods, and in the earlier development of the other members of the Teutonic family of languages.

In the German Seminary, in which the graduate instruction centres, nearly equal attention is devoted to German literature and German philology. To enter upon the work of the Seminary in literature, the student should possess a knowledge of German equivalent to that imparted in the undergraduate courses hereinafter mentioned, supplemented by private readings. For the seminary work in philology, it is desirable, in addition, that preliminary courses in Gothic and Middle High German should be first completed, and these may be taken with advantage by the student immediately upon entering. All graduate students of German are required to share in both the philological and literary work, and to direct their efforts to the attainment of broad results, which may serve as the foundation of scientific work and of successful teach-

ing; but the Seminary and the allied graduate courses are believed to offer also sufficient opportunity and encouragement for the prosecution of chosen lines of work, whether on the linguistic or the literary side, in accordance with individual capacity and bent. In this way, opportunity for independent research is afforded, within the framework of organized effort directed towards the attainment of results which concern the Seminary as a whole, and towards which each member is expected to contribute his share.

The subjects selected for the Seminary during recent years are as follows:

1897-98. Goethe's Lyrical Poems; Nibelungenlied.
1898-99. Storm and Stress and Early Romanticism; Walther von der Vogelweide.
1899-1900. Goethe's Faust; The Middle High German Court Epic.
1900-1901. Goethe and Schiller (1786-1805); Parzival.
1901-1902. Goethe's Lyrical Poems; Nibelungenlied.
1902-1903. German Literature in the Eighteenth Century; Walther von der Vogelweide.
1903-1904. Goethe's Faust.

The Germanic Society, which meets fortnightly, supplements the work of the German Seminary; before it are presented not only reports on articles in current journals, but also successive results of studies by the members. The chief object of the Society is to foster and guide the aptitude for more sustained individual investigation than the collective work of the Seminary offers scope for. Lists of the more important papers presented are given in the yearly reports.

In addition to the work of the Seminary (three meetings a week), other advanced courses are given. For example, in 1903-1904, Professor Wood gave courses in Gothic and in Old High German, and lectured on the beginnings of modern German classicism. Dr. Vos conducted classes in the History of the German Language and in Middle High German language and literature. A course on Contemporary German Literature was given by Professor T. S. Baker, of the Jacob Tome Institute.

The undergraduate work in German begins with an elementary course, continued through the year, for candidates for matriculation who have entered with Greek. This is followed by the regular work in German during the first college year, a course required of all undergraduates. Nearly equal portions of the German drama and of German literary prose are read. Private readings and weekly exercises in prose composition supplement the class readings.

A briefer course continuing through one year is provided for undergraduates who have matriculated in Greek, and have fully met *at entrance* the matriculation requirements. While no knowledge of German is assumed for this course, the student's previous training in language renders rapid progress in grammar possible. This study is followed during the rest of the year by prose readings, supplemented by elementary prose composition.

Undergraduates in Group VII who elect German, or undergraduates in any of the seven groups who substitute German at this point in their course, pursue the study during a second year. The readings from the classical period are continued in texts of greater difficulty, and instruction is given in the history of German literature and in the writing of German prose.

Elective courses (contemporary literature, German ballads, Goethe's *Dichtung und Wahrheit*) are offered to undergraduates who have completed the work in German of the first college year. A third elective in scientific readings is open to undergraduates who are preparing to enter the medical department.

Classes are also provided in conversational German and in historical and scientific reading, for graduates who lack the ability to read the language at sight.

History

Advanced instruction in history and methods of historical research is offered to graduates, or to special students of mature years, if qualified by ability and previous studies to pursue such courses. The work is planned to develop the spirit of original research, and this end is attained not alone by lectures, but also by individual advice and by the constant association and co-operation of students and instructors in special conferences. The best results of original inquiry are brought before the Historical and Political Science Association for discussion and are usually published in the "Johns Hopkins University Studies in Historical and Political Science." Avenues of publication have also been found hitherto in the leading historical and economic journals.

Graduate Courses

Associate Professor John Martin Vincent lectures to graduate students on the history of Europe and on the science of historical investigation. The courses direct attention to the social, economic, and constitutional development of European peoples. The subjects follow in consecutive order, the topics for each year forming a complete and independent group. The whole series of courses requires three years for completion and offers opportunity for close study of selected portions of the Mediaeval and Early Modern History of the Continent and England. The lectures on historical research discuss in detail the various materials of history and the methods by which these are tested and used. Dr. Vincent also conducts a weekly Historical Seminary for the study of selected historical problems. The work of the students is subjected to criticism in order to promote facility in research and develop historical judgment. The Historical and Political Science Association meets fortnightly and offers further facilities for the production of original

work, and for the criticism of the current literature of history and political science.

Dr. Friedrich Keutgen, Associate Professor in the University of Jena, will be a resident lecturer from October 1, 1904, to May 1, 1905. He will give courses in the early history of Germany, France, Italy, and England, with practical exercises in historical research in the same field. The period covered will extend from the emergence of the Teutonic nations into the light of history to their formation into constitutional states. He will also conduct courses in the Diplomatics and Palæography of the Middle Ages. These courses are open also to students of philology.

Dr. James Schouler, author of the History of the United States under the Constitution, gives in successive years short courses of lectures on American political and economic history.

Dr. Bernard C. Steiner, Associate in History, is one of the advisers of advanced students in their original investigations in American History.

Dr. J. C. Ballagh, Associate in History, acts as an adviser to graduate students, and lectures, in successive years, upon connected topics in (1) American colonial history, (2) American institutional history, (3) United States constitutional and political history. He also conducts (4) a conference for research in special subjects in American history, and (5) oral examinations in general history.

In Oriental History students have the advantages of the lectures offered by Professor Bloomfield, of the department of Sanskrit and Comparative Philology, and by Associate Professor Johnston, of the Oriental Seminary.

The Albert Shaw Lectures on Diplomatic History are given annually by investigators in selected fields of American and foreign relations. For 1904-05 the lecturer

is Professor James A. James, of Northwestern University, on the Diplomatic Relations of the United States during the administration of John Adams.

Other lectures of interest to students of this department, either open to the public or designed for class instruction, may be expected from time to time from distinguished scholars outside of the university.

Undergraduate Courses

The undergraduate instruction aims to impart such a knowledge of the essential facts and principles of general history and politics as will contribute towards a liberal education and fit men to pursue advanced courses in special branches of these sciences, with a view to taking the doctor's degree or to entering the work of education, law, journalism, charity organization, or the civil service. This training process is pursued in class courses, where systematic and positive instruction is given by means of required text-books, lectures, essays, oral reports, and constant drill. The undergraduate work extends, in its various sections, over a period of three years (see College Courses, Sixth Group). A course in European Constitutional History, taken in connection with the outlines of Political Economy, is also required of every undergraduate student not in the Historical Group.

The courses are conducted by Dr. Vincent, Dr. Steiner, Dr. Ballagh, and assistants, on the following plan:

First Year: Ancient History,—Greece and Rome.

Second Year: Mediaeval and Modern History of Europe. History and civilization of India, China, and Japan.

Third Year: English and American Constitutional History. European Constitutional History.

Political Science

The graduate work in Political Science is conducted by Associate Professor Willoughby, and is so arranged as to give three years' continuous instruction. In addition to the Historical and Political Science Association, at which the original work of the students is presented and criticized, a fortnightly Seminary is held, at which papers upon special topics, prepared by the students, are read and discussed. During the past two years the problems of colonial government and administration and unsettled points in international law have been specially considered. The lecture work is divided into six courses, two hours weekly, two courses being given each year. These courses, though complete in themselves, are so arranged that the first three give a comprehensive treatment of Constitutional Law, while the last three together cover the entire history of the development of political ideas. The courses are as follows:

(1) *Comparative Public Law.* The theory of the State, the general principles of constitutional and international law, and the more difficult points in the systems of constitutional jurisprudence of the modern European states are discussed. Especial attention is given to composite forms of state life.

(2) *Advanced American Constitutional Law.* For this work a general knowledge of United States political history and constitutional law is presupposed, the lectures being devoted to a discussion of the more perplexing and still unsettled points in our constitutional jurisprudence, and the illustrations being drawn largely from the recent and current decisions of the U. S. Supreme Court.

(3) *The Legal Aspects of Economic and Industrial Problems.* In this course the chief legal points involved in the state regulation of public and private employments are discussed. Among the particular topics treated are: eminent domain, the police power, taxation, interstate

commerce, factory legislation, capitalistic combinations, labor unions, strikes, boycotts, industrial arbitration, bankruptcy, legal tender.

(4) *History of Ancient and Mediaeval Political Theories.* The political ideas and ideals of these times, as revealed in literature, law, and political practice, are analyzed and criticized. Especial effort is made to show the extent to which these theories were the outcome of the objective conditions and general intellectual characteristics of the times in which they were formulated.

(5) *History of Modern Political Theories to the Nineteenth Century.* A continuation of the preceding course.

(6) *History of the Political Theories and Literature of the Nineteenth Century.* A continuation of the preceding course.

Undergraduate instruction in Political Science is given in connection with the undergraduate historical courses, and in the course entitled "Historical Politics" required of all students except those in Group VI.

Political Economy

Graduate Courses

Graduate instruction in Political Economy, under the direction of Associate Professor Hollander, assisted by Dr. Barnett, is designed primarily to meet the needs of advanced students preparing for a professional career in economic science. Such persons meet daily in seminary organization. The courses are planned to afford systematic instruction in general economic principles, intimate acquaintance with special fields of economic activity, and, most important of all, knowledge of and ability to employ sound methods of economic research.

The work centres in the Economic Seminary, the membership of which is limited to the most advanced

students and the primary design of which is to develop scientific spirit in economic study and investigation. The present field of research is the history, structure, and functions of labor organizations in the United States. Individual members are assigned specific aspects of the labor question for study and investigation. In each of such cases, the immediate environment is first studied; thereafter examination is made of conditions in other typical communities until sufficient data for reasonably safe generalizations are obtained. Members of the Seminary showing special capacity for economic investigation in other fields than that selected for collective study are encouraged to continue their inquiries and to present the results for criticism as to method and content.

Formal graduate instruction is offered in (1) Theoretical Economics and (2) Applied Economics, by parallel courses of lectures throughout the year. The particular topics treated vary from year to year. Thus in 1902-03, Associate Professor Hollander lectured two hours weekly on the Development of Economic Thought, and two hours on the Theory and Practice of Exchange. During the present year attention has been given, in the course on Economic Theory, to a careful preliminary survey of the History of Distribution; in the second half year study has been made of the distinctive features of the modern distributive process and a positive theory has been outlined. In the course on Applied Economics careful analysis has been made, during the first half year, of the History and Theory of Taxation; during the second half year, the technique of American tax systems has been examined. In connection with both courses representative texts have been assigned for reading and study, and exercise has been afforded in the use of original sources of theoretical and financial information. A reading class has also afforded advanced students opportunity for co-operative study and discussion.

Dr. G. E. Barnett, Instructor in Political Economy, has

lectured, during the first half year on the theory of banking and during the second half year upon the history of American banking systems. Dr. Jeffrey R. Brackett, president of the Board of Supervisors of City Charities, has delivered a course of ten lectures on problems of charity, public aid, and correction.

While primarily designed, as has been noted, for the needs of students preparing for a scientific career in the field of political economy the instruction offered is of material service to persons looking forward to practical social work, or proposing to enter the public service, the professions of law or journalism, or desirous of equipping themselves for a large and generous citizenship. With this in view, particular attention is paid to recent industrial and financial developments in the United States. Proximity to Washington offers special facilities for study and investigation in these directions, and efforts are made to profit by close acquaintance with and actual use of the important resources there existing.

Undergraduate Courses

The undergraduate instruction in political economy is given by Associate Professor Hollander and Dr. Barnett. It is designed not only to prepare elementary students for the advanced courses described above, but also to contribute to a liberal education that fund of information and that mode of thought which will permit young men, in whatever walk of life engaged, to interpret and to appreciate the economic activities of human society.

The method employed is class-room instruction from required text books, supplemented by lectures, collateral reading, written reports, and periodic examinations. In a Minor Course, the outlines of industrial development and the elements of economic theory are taught, after which attention is paid to the principles of money and banking, taxation, and international trade. In a Major Course, instruction is given in recent changes in industrial

organization and in current economic thought. This course also offers favorable opportunity for those graduate students who have had no adequate training in political economy, to prepare for the graduate courses. A portion of the Minor Course, taken in connection with a course in history, is required of all undergraduates not pursuing the historical-political group of studies.

Philosophy and Psychology

Graduate Courses

The graduate work of the department falls into two divisions, according as the student specializes in Philosophy proper or in scientific and experimental Psychology. Within these two divisions many special topics are treated. In each division the work is planned to cover three years. The arrangement by years is mainly for convenience; it is not of the nature of a curriculum. The courses are offered to stimulate and aid the student in the work of investigation. Whether, and when, the candidate shall take the degree of Doctor of Philosophy, under the University regulations, depends upon his success in the prosecution of a piece of research.

In the division of Philosophy, the first year offers courses in General Psychology, Social Psychology and Philosophy, and Theory of Evolution and Comparative Psychology,—these topics being a necessary foundation to the more detailed work of later years. In the division of Psychology, a training course in Experimental Psychology is added to the work of division I.

In the second year, more special work of research is carried on, the two divisions being somewhat separated. In Philosophy, the Theory of Knowledge becomes the central topic. History of Philosophy and Ethics are given, and a variety of special topics are presented in which the student has various alternatives opened for his

own research. In the Psychology division, the research courses in Experimental Psychology in the laboratory are central, the Theory of Knowledge is associated with it, and again a variety of special topics allows choice of subjects allied to the main problem of the particular student.

In the third year, the Seminary and Laboratory courses are the centre of the work, in the two divisions respectively, the student being expected to give most of his time to work on the topic of his dissertation. In this last year, the Professors devote themselves to the direction and development of the students' investigations. A graduate Conference and Journal Club meets weekly. Throughout the entire course the Seminary and Laboratory Methods of instruction are preferred to that by formal lectures.

The distribution of topics among the staff is as follows: Psychology (except experimental), Theory of Knowledge, and General Philosophy are treated by Professor Baldwin; History of Philosophy and Ethics, by Professor Griffin; Experimental Psychology, by Professor Stratton.

The additional special topics which are to be treated in the year 1904-05 are Experimental Phonetics and Laboratory Problems, by Professor Scripture; Vision and Symbolic Logic, by Mrs. Franklin; and Physiological Psychology, by Dr. Farrar. Professor Baldwin is the Director of the Philosophical Seminary, and Professor Stratton, of the Psychological Laboratory. The Seminary room, containing the department library, in Levering Hall, and the Laboratory, situated in the biological building, are to be in full working order for the year 1904-05. The library has the use of the large collection of journals and files of current serials, belonging to the Director.

Undergraduate Courses

Courses in Logic, Psychology, Ethics, and the History of Philosophy are conducted by Professor Griffin. These

occupy five hours per week throughout the year, and all candidates for the degree of Bachelor of Arts are required to follow them during the last year of residence. The instruction is adapted, as far as possible, to the needs of those to whom these subjects are new; attention is, however, called to fundamental problems, and the work is intended to serve as an introduction to general philosophical study.

(*a*) *Logic.* The logical forms—terms, propositions, syllogisms—are studied as an analysis or explanation of the thinking process, and as a practical discipline in exact thought; attention is given also to the material elements in inference, as these are stated in the several inductive methods.

(*b*) *Psychology.* The instruction in Psychology is intended to give a general view of the results of present methods of study. A series of lectures and demonstrations on the anatomy and physiology of the nervous system—given in 1903-04 by Dr. C. R. Bardeen—is included in the course. Especial emphasis is laid upon the facts of conscious experience, as known through introspection, the most important end to be secured being, it is believed, such an understanding of the facts and laws of mental life as shall fit one for wise self-government and effective influence. With this view, such powers and states of mind as attention, memory, association, habit, imagination, the feelings, the will, are discussed in as concrete and practical a way as possible. An essay on an assigned subject is required from each member of the class.

(*c*) *Ethics.* Ethics is treated with reference to its fundamental problems as a theoretical science; questions of applied ethics receive, for lack of time, comparatively little attention. One essay is required from each member of the class.

(*d*) *History of Philosophy.* An outline of the history of philosophy is given in a series of lectures, some of which

are included in the prescribed instruction, and some of which are for the benefit of any who may be disposed to attend them.

Drawing.

The instruction in drawing is arranged to give the students a general knowledge of the subject, as far as the time at command will permit, while those who show particular aptitude are encouraged to follow special courses. The instruction is given by Mr. S. E. Whiteman.

Undergraduates take up the subject as one of their required studies, unless they can show a fair degree of proficiency attained elsewhere. Graduate and special students are allowed the privilege of receiving such instructions as may be most helpful to them in their respective fields of work. Those who look forward to scientific pursuits, especially those who study natural history, medicine, physics, applied mathematics and mechanics, find these courses of great value.

The undergraduate course is designed to form part of the general education of the student. It aims to impart such knowledge of the principles of drawing, with extended practice in the application of the same, as shall best serve to educate the eye and to train the hand,—the one to see correctly, and the other to express accurately the appearance of forms. The course includes freehand and mechanical drawing. Students may have the option of freehand drawing alone throughout the year. In the freehand drawing, the student is at once set to draw from models, beginning with elementary forms, and proceeding through a series of exercises till he is able to produce a fair drawing of any simple object or group of objects, in outline and in light and shade. The chief mediums used are charcoal and crayon. The use of drawing instruments

is taught, and the constructive processes are applied which are in general use in instrumental drawing. The elements of descriptive geometry are afterwards taken up in this course, and the fundamental principles of orthographic, scenographic, and isometric projections are worked out and applied in carefully executed drawings, finished in ink. Precision and fidelity are insisted on, and no careless work is allowed, nor is any copying permitted. Each student receives the personal attention and guidance of the instructor. With the exactness of pen-and-ink work on the one hand and the freedom of charcoal on the other, the student attains a power of graphic expression which will be of service to him in almost any pursuit. The instruction in mechanical drawing will be found of great value to students who are looking forward to courses in engineering or applied science. This course is required of all undergraduate students who take the course in mathematics.

The special instruction in drawing is necessarily of such a nature as is best adapted to the requirements of the individual student; freehand drawing from natural forms, in charcoal and in pencil; from plaster casts, in charcoal; advanced work in descriptive geometry. This special instruction includes work for students preparing for the courses in medicine and biology, but of a character more directly applied to these studies with a view to illustrating the work of these courses.

Physical Training

A careful examination of each undergraduate is made by the director of the gymnasium, Dr. C. R. MacInnes, and such exercises are prescribed as are best suited to his needs. Systematic exercise is required of all undergraduates during their first year of residence; in sub-

sequent years this is not compulsory. Regular class instruction is given every afternoon from five to six. The use of the gymnasium is optional in the case of graduate students.

The gymnasium is a new building, 127 feet long by 35 feet wide, and is provided with convenient lockers, baths, etc., as well as with the newest forms of apparatus. Adjoining the gymnasium proper is a "cage,"—an enclosed and covered space for practice in running and in athletic sports,—127 feet long, 66 feet wide, and 30 feet high.

In order to prevent ill-advised participation in outdoor sports, and to guard against over-indulgence in training, the athletic teams of the university are under the control of the director of the gymnasium. No student is allowed to become a member of a team unless his physical condition is satisfactory, and no student is allowed to be a member of, or a candidate for, an athletic team, who is seriously deficient in his studies.

Public Speaking and Class Debate

Undergraduate students in their first year are trained in the art of public speaking and in the elements of Parliamentary Law, and this training is continued throughout the second and third years of the college course. The art of debate and extemporaneous speaking is practiced in a so-called College Congress, under the direction of the instructor, who guides the students in the collection tion of materials for debate and in the preparation of briefs. Special facilities are offered by the historical department for the use of documents, pamphlets, and newspaper articles. Opportunity is offered to graduate students for instruction and practice in extemporaneous speaking and public lecturing.

REGULATIONS GOVERNING THE DEGREE OF DOCTOR OF PHILOSOPHY

[Adopted by the Board of University Studies, February 26, 1898, and revised December 4, 1901.]

The degree of Doctor of Philosophy is offered to students who have followed advanced courses of university study for a period of not less than three years, under suitable guidance and favorable conditions, and who have submitted an acceptable dissertation and passed the prescribed examinations.

In order to be accepted by the Board of University Studies as a candidate for the degree of Doctor of Philosophy, the student must give evidence that he has completed such a liberal undergraduate course of academic study antecedent to the baccalaureate degree as is offered by colleges of good standing.

He must then follow advanced studies in the departments of knowledge which he may have chosen, and these studies must be pursued without serious distractions, under qualified teachers, for a period of at least three years. Private study, or study pursued at a distance from libraries and laboratories and other facilities, will not be considered as equivalent to university study.

The Board reserves the right to decide in each case whether the antecedent training has been satisfactory, and, if any of the years of advanced work have been passed by the candidate away from this university, whether they may be rightly regarded as spent in university studies under suitable guidance and favorable conditions.

In order that students may receive the definite counsel of the proper authorities with respect to their future course, they are advised to offer themselves as "candidates" for this degree as soon after entrance as their purposes are formed. At least one academic year must

be passed in this university, and in every case the year immediately preceding the final examinations.*

Correspondence on the foregoing matters should be addressed to the Registrar of the University.

Requirements for the Degree.

Every candidate for the degree of Doctor of Philosophy must select one principal and two subordinate subjects, the combination to be approved by the Board of University Studies. These must be pursued without serious distraction and under the general direction of the professor in the principal subject of study, who is the official adviser of the candidate. The student must prepare a satisfactory dissertation, and must pass with credit certain written and oral examinations in his chosen departments of study.

Acceptance of the Candidate.

A student wishing to be considered a candidate for the degree must make formal application to the Board of University Studies to be enrolled, and must be accepted by the Board at least an academic year† in advance of the time when he expects to present himself for examination in his principal subject. A blank form is provided for the purpose. After filling out this form, the student must present himself before the examiners in French and German at one of the stated examinations in these subjects. When their certificates are affixed to his application, he is to obtain the signatures of approval of the professors in the department concerned. The application, thus completed, is then to be presented to the Board for its final action.

*In case a student has complied with all the conditions and has practically completed his preparation for the final examinations, and is prevented by good reason from presenting himself, he should ask the Board to appoint a later day for his examination.

†The acceptance of a candidate by the Board at its October meeting is regarded as an acceptance at the beginning of an academic year.

Requirements in French and German.

a. The candidate must be able to translate French and German at sight. Familiarity with journals and monographs pertaining to his principal department of study will satisfy this requirement.

b. Examinations are held in these languages at the middle and end of each academic year, at one of which times the candidate must present himself. In October there is provided a special examination for students not connected with the university during the previous academic year.

c. Students who have not acquired a reading knowledge of these languages before engaging in graduate study, are advised to pursue a course organized for that purpose, during their first year. Absolving the class examination at the end of this course will be construed as satisfying this requirement for the degree of Doctor of Philosophy.

Requirements in the Subordinate Subjects

The subordinate subjects are of two grades, and are known respectively as the first subordinate and the second subordinate. Each of these subjects shall be followed by the candidate for a portion of his time, during at least one year of graduate study.

It is impossible to define with precision the amount of time to be devoted to the subordinate subjects. In general, however, it may be stated that the two subordinate subjects, taken together, should represent one year's work, two-thirds of this time being devoted to the first subordinate subject.

Dissertation.

a. The dissertation must be written upon a theme approved by the adviser of the candidate, and must be completed and submitted to the Board at least four weeks before the written examinations in the principal subject are held, unless the adviser recommends a later date. The dissertation must be legibly written, or type-written, or

printed, then paged and bound, in accordance with the instructions given below. The copy thus prepared is to be placed on file and become the property of the university. Before proceeding to prepare this copy, the candidate must confer with the Registrar, who will show to him a model exhibiting the kind of paper to be used and the general style of binding to be followed. On the back of the cover shall be placed the word dissertation, the name of the author, the date, and, if possible, the title of the dissertation. The title page shall contain the words *Dissertation submitted to the Board of University Studies of the Johns Hopkins University in conformity with the requirements for the degree of Doctor of Philosophy,* in addition to the title, the name of the author, and the date.

b. The Board shall designate two or more referees, who shall present a written report on the dissertation,—said report to be filed. In the intervals between the sessions of the Board, the President shall have power to appoint the referees.

c. The candidate shall print the dissertation in full or in part,—if in part, to the extent of not less than twenty-four octavo pages, and these twenty-four pages may contain either an abstract or a section of the dissertation,—under the supervision of his adviser, within one year of the time when the degree is conferred, and shall present one hundred and fifty copies of the work to the university. A biographical sketch of the author shall be appended to the dissertation in both its manuscript and its printed form.

d. If the required number of printed copies have not been presented to the university, a deposit of $50, to insure the printing within the specified period, shall be made by the candidate at the treasurer's office before the degree is conferred. This deposit shall be returned to him when the printed copies are presented to the university.

e. If the required number of printed copies should not

be presented to the university within the specified time, the Board may declare the deposit forfeited, and may apply the amount in printing such portions as the adviser may deem proper.

Examinations

a. The candidate shall be given written examinations in the principal subject and, wherever practicable, in both subordinate subjects, and an oral examination, before the Board, in the principal and in the first subordinate subject.

b. The candidate shall be permitted to take the written examinations in both the first and second subordinates at the end of the respective years in which the courses in these subjects were completed, or whenever he is ready, at the discretion of the examiner.

c. The professors in the several departments of study shall prepare written reports on the result of the examinations. These reports, together with the questions and answers, shall be laid before the Board at the oral examination and the reports filed.

d. In the written examinations no one session shall exceed five hours.

e. In the oral examinations before the Board, the time allotted to each examination shall be one hour, and three-quarters of this time shall be devoted to the principal subject.

Conferring of Degree

The names of the candidates found worthy of the degree will be submitted to the Board of Trustees, and with their approbation the degree will be publicly conferred.

COLLEGIATE INSTRUCTION

In addition to the instruction provided for graduate students, the Johns Hopkins University makes ample provision for collegiate instruction. Its work was originally organized to meet the needs of those desiring a systematic discipline in liberal studies, as well as to furnish additional opportunities to persons who had already received a college training. The courses offered to undergraduates are maintained with no less care and thoroughness than those intended for advanced students; the oldest and most experienced members of the academic staff cooperate in the conduct of them. No small part of the influence and usefulness of the university is in connection with the collegiate classes, in which, since 1876, nearly seventeen hundred students have been enrolled.

Certain features of organization and administration have contributed to the effectiveness of the undergraduate work. The scrupulous observance of the distinction between the disciplinary methods appropriate to college teaching and the freer methods of advanced instruction; the "group" arrangement of studies, combining a reasonable liberty of choice with a sufficient exercise of authority; the facilities afforded young men of superior capacity for carrying their studies beyond the requirements of graduation; the influence upon younger pupils of the presence of a large body of graduate scholars conducting investigations in all the great departments of learning:—these conditions have proved favorable to the development of earnestness and scholarly devotion.

ARRANGEMENT OF COURSES

The courses of study open to undergraduates are arranged in (a) the curriculum prescribed for candidates for matriculation; (b) the several "groups" offered to matriculated students.

(a). Curriculum Prescribed for Candidates for Matriculation

The standard of matriculation maintained at the Johns Hopkins University is considerably higher than that maintained by institutions which require a residence of four years in order to graduation. In the Baltimore City College, and in several private schools of Baltimore, young men may be prepared to pass the matriculation examination; but many are unable to secure, in the places where they reside, instruction which will fit them to meet the requirements here exacted. As a consequence, many students who have desired to enter the university have been unable to do so, and some who have entered have done so only under the embarrassment and vexation of "conditions." In order to meet this difficulty, terms of admission are now designated, corresponding to the terms of admission to other colleges of established reputation, and students who satisfy these requirements are admitted to a prescribed course of study adapted to prepare them, at the end of a year, for full matriculation.

The course of study prescribed for these students is as follows:—

1. Mathematics. *Four hours weekly.*
   - Algebra (special topics).
   - Solid Geometry.
   - Plane Trigonometry.
   - Analytic Geometry (straight line and loci).
2. Latin. *Three hours weekly.*
   - Cicero, *De Amicitia.*
   - Nepos (selections).
   - Vergil, *Georgics.*
   - Ovid (selections).
   - Sight Reading and Prose Composition.

3. GREEK. *Three hours weekly.*
   Homer, *Iliad,* book vi.
   Herodotus, book vii.
   Sight Reading and Prose Composition.
4. GERMAN OR FRENCH.
   (*a*) For students offering Greek at entrance. *Three hours weekly.*
   German: Vos, *Essentials of German;* Vos, *Materials for German Conversation;* Storm, *Immensee;* Gerstäcker, *Germelshausen.*
   French: Fraser and Squair's *French Grammar, Part I, and Reader;* Verne, *Vingt Mille Lieues sous les Mers;* About, *La Mère de la Marquise;* Coppée, *On rend l'Argent;* Labiche, *Le Voyage de M. Perrichon.*

After completing one of these courses, students are required to take Minor A in their groups.

   (*b*) For students not offering Greek at entrance. *Four hours weekly.*
   The minor course, Class A, in either German or French.
5. RHETORIC AND ENGLISH COMPOSITION. *Three hours weekly*
   Principles of Rhetoric.
   Rhetorical Analysis.
   Practice in writing.

Students taking Greek may defer this course until after matriculation.

6. FREEHAND AND MECHANICAL DRAWING.

(b). GROUPS OFFERED TO MATRICULATED STUDENTS

After matriculation, the student is expected to follow one of several distinct and parallel courses of instruction known as "groups." These are seven in number, each comprising (1) studies common to all the groups and required of all undergraduates, (2) studies peculiar to a group, (3) optional studies. The groups are assumed to be equally honorable and difficult, and are intended to combine liberty of election on the part of the student with sufficient exercise of authority to prevent discursive and ill-considered work. Each group contains two principal studies, both of which extend through two years of instruction. These are: (1) Latin and Greek, (2) Mathematics and Physics, (3) Chemistry and Biology, (4) Geology and Biology, (5) Latin and Mathematics, (6) History and Political Science, (7) English, with German or French.

The student may follow strictly the group which he has chosen; or, under the regulations hereinafter stated (see page 205, section *b*), he may substitute, with the approval of his adviser, other studies for two—in certain cases, for three—of the courses laid down in his group.

Students who have passed French or German as the principal subject in place of Greek for matriculation, are required to substitute for it some other subject, or to take an advanced course in one of these languages. Any undergraduate course approved by the adviser may be chosen for this purpose.

In these ways the course of study in the several groups may be modified; while those who wish to concentrate their attention in the more thorough study of a special field, will find it advantageous to accept the groups as they stand.

The optional courses in Science and Literature vary from year to year, and may be followed by the student according to his tastes and acquisitions. The arrangements of the university allow those who have capacity for more than is prescribed, to broaden their studies by attendance upon the public lectures from time to time provided; and, if time permits, they may also take longer or shorter courses not actually required of them.

Each group contains twelve courses. Eight of these are four-hour courses,—each representing four hours of class-work weekly for a year. Of the others, two—the course in Rhetoric and that in English Literature—are three-hour courses; one is an elective of two hours in the third year; and one—the course in Philosophy—occupies five hours weekly through one year. Rhetoric, English Literature, and Philosophy form a part of each group. A course in Economics and History is also included in each group. Each group contains at least one year of French and one year of German, and at least one year of attention to a scientific subject, including the performance of the

work prescribed in the laboratory. The instruction in Drawing and in Vocal and Physical Culture is additional to these twelve courses.

1. *The Classical Group*

The classical group corresponds in the main to what has been the ordinary course of study in American colleges, the requisite mathematics having been secured before matriculation. The emphasis is laid upon Latin and Greek, each of which is studied two years. Rhetoric, English Literature, French, German, one subject involving a year of laboratory work, Economics and History, Comparative Philology, Philosophy, and an elective subject occupying two hours weekly in the third year, are also included, together with Drawing and Vocal and Physical Culture.

2. *The Mathematical-Physical Group*

The Mathematical-Physical group substitutes two years of Mathematics and two years of Physics for Latin and Greek, adding also a year of Chemistry, the other studies being the same as in the classical group. This course affords a good basis for the subsequent study of Electricity, Engineering, Astronomy, and other subjects largely dependent on the science of Mathematics.

3. *The Chemical-Biological, or Preliminary Medical, Group*

The Chemical-Biological group prepares the student to enter at once upon the studies of the Johns Hopkins Medical School, and is also a good preparation for the study of medicine elsewhere, or for the professional study of Natural History. It provides instruction in Physics, Chemistry, and Biology, with laboratory practice. The requirements in French, German, English, History, and Philosophy are the same as in the other groups.

4. *The Geological-Biological Group*

The Geological-Biological group furnishes a good fundamental training in the sciences, providing a year's course

each in Biology, Physics, and Chemistry, and a two years' course in Geology. It affords a broad education in scientific studies, and prepares the student both to appreciate scientific methods, and to pursue advanced courses in Geology, later, should he so desire.

5. *The Latin-Mathematical Group*

The Latin-Mathematical group affords a good fundamental training without the study of Greek. It differs from the classical group only in substituting Mathematics for Greek.

6. *The Historical-Political Group*

The Historical-Political group furnishes a basis for the subsequent study of law. It omits Greek and retains but one year of Latin, providing two years of History and two years of Economic and Political Science.

7. *The Modern Language Group*

The Modern Language group is designed for those who wish a literary training based upon the modern rather than upon the ancient languages. It substitutes for Greek two years of English, and, retaining one year of Latin, substitutes for the other an additional year of either French or German. If the student is already proficient in French or German, he may substitute a year of Spanish or Italian for one of these languages.

Detailed statements respecting the groups are given in the succeeding pages.

First Group (*Classical*)

First Year

LATIN.
CLASS WORK. (9 a. m.) *Four hours weekly.*
Livy (two books).
Horace (selections).
Prose Composition.
PRIVATE READING:
Cæsar, *Bellum Civile* (book i).
Tacitus, *Agricola.*
Ovid, *Fasti* (selections).
Vergil, *Aeneid* (books ix, xii).

RHETORIC AND ENGLISH COMPOSITION. (12 m.) *Three hours weekly.*
Principles of Rhetoric.
Rhetorical Analysis.
Practice in Writing.

GREEK.
CLASS WORK. (1 p. m.) *Four hours weekly.*
Lysias, vii, xxiv.
Isocrates, *Panegyricus.*
Euripides (one play).
Prose Composition.
PRIVATE READING:
Xenophon, *Hellenica* (book i).
Homer, *Odyssey* (books i, ix, x).

GERMAN: *Minor B.* (11 a. m.) *Four hours weekly.*
Vos, *Essentials of German.*
Whitney's *Grammar.*
Gerstaecker, *Germelshausen.*
Wilhelmi, *Einer muss heiraten.*
von Wildenbruch, *Das edle Blut.*
Keller, *Kleider machen Leute.*
Prose Composition.

Second Year

LATIN.
CLASS WORK. (9 a. m.) *Four hours weekly.*
Juvenal.
Pliny's Letters.
Plautus (one play).
Terence (one play).
Reading at Sight.
Prose Composition.
PRIVATE READING:
Quintilian (book x).
Plautus, *Miles Gloriosus.*

ENGLISH LITERATURE. *Three hours weekly.*
Outline History.
Critical Study of Important Writers.
Private Reading.

GREEK.
CLASS WORK. (12 m.) *Four hours weekly.*
Demosthenes, *In Leptinem.*
Selections from the elegiac, melic, and iambic poets.
Sophocles (one play).
Reading at Sight.
Prose Composition.
PRIVATE READING:
Aeschylus, *Prometheus.*
Aristophanes, *Nubes.*

LABORATORY COURSE. *Four hours class-work weekly.*
*Chemistry (9 a.m.), *or* Physics (10 a.m.), *or* Biology (10 a.m.). } Lectures, recitations, and laboratory work.

Third Year

PHILOSOPHY. (11 a. m.) *Five hours weekly.*
Logic, Psychology, and Ethics.

HISTORY AND ECONOMICS. (10 a.m.) *Four hours weekly.*
Historical Politics. *Two hours.*
Elements of Economics. } *Two hours.*
Applied Economics. }

**ELECTIVE COURSE. *Two hours weekly.*

FRENCH: *Minor B.* (12 m.) *Four hours weekly.*
Grammar and Composition.
Nineteenth Century Prose.
Pronunciation. Private Reading.

COMPARATIVE PHILOLOGY. *One hour weekly.*

*If Chemistry be chosen, it should be taken in the third year, and History and Economics in the second year.
**For 1904-1905, elective courses are offered in the following subjects: Differential Equations, Zoology or Botany, Hebrew, Latin, Greek, German, French, Italian, Spanish, English Literature, History of Philosophy (one hour).

Second Group (*Mathematical-Physical*)

First Year

GERMAN: *Minor A.* (11 a. m.) *Four hours weekly.*
Classics: Schiller; Goethe.
Prose Reading: Seidel; Baumbach.
Composition. Private Reading.
Or
*FRENCH: *Minor A. Four hours weekly.*
Modern Prose and Poetry.
Selected Classics.
Composition. Private Reading.

CHEMISTRY. (9 a. m.). *Four hours class-work weekly.*
General Chemistry.
Laboratory Work. (*Five hours weekly.*)

RHETORIC AND ENGLISH COMPOSITION. (12 m.). *Three hours weekly.*
Principles of Rhetoric.
Rhetorical Analysis.
Practice in Writing.

MATHEMATICS. *Four hours weekly.*
Plane Analytic Geometry.
Differential and Integral Calculus.
Practical Exercises. (*Two hours weekly.*)

Second Year

PHYSICS. (10 a. m.) *Four hours class-work weekly.*
Elementary Mechanics.
Sound.
Heat.
Electricity and Magneticism.
Light.
Laboratory work. (*Five hours weekly.*)

ENGLISH LITERATURE. *Three hours weekly.*
Outline History.
Critical Study of Important Writers.
Private Reading.

MATHEMATICS. (9 a. m.) *Four hours weekly.*
Determinants.
Differential and Integral Calculus (special topics).
Theory of Equations.
Elements of Projective Geometry.
Analytic Geometry of Three Dimensions.
Practical Exercises. (*Two hours weekly.*)

Students who have passed French or German as the principal subject in place of Greek for matriculation, must substitute here some other four-hour course.

Third Year

PHILOSOPHY. (11 a. m.) *Five hours weekly.*
Logic, Psychology, and Ethics.

HISTORY AND ECONOMICS. (10 a. m.) *Four hours weekly.*
Historical Politics. *Two hours.*
Elements of Economics. } *Two hours.*
Applied Economics. }

PHYSICS. (12 m.) *Four hours class-work weekly.*
Mechanics.
Thermodynamics.
Electricity and Magneticism.
Physical Optics.
Laboratory Work. (*Five hours weekly.*)

**ELECTIVE COURSE. *Two hours weekly.*

*The French may be deferred until the third year by taking, in the first or second year (as a substitute for History and Economics) a four-hour course in History.

**For 1904-1905, elective courses are offered in the following subjects: Differential Equations, Zoology or Botany, Hebrew, Latin, Greek, German, French, Italian, Spanish, English Literature, History of Philosophy (one hour).

Third Group (*Chemical-Biological*)

First Year

PHYSICS. (10 a. m.) *Four hours class-work weekly.*
Elementary Mechanics.
Heat.
Electricity and Magnetism.
Sound.
Light.
Laboratory Work. (*Five hours weekly.*)

RHETORIC AND ENGLISH COMPOSITION. (12 m.) *Three hours weekly.*
Principles of Rhetoric.
Rhetorical Analysis.
Practice in Writing.

CHEMISTRY. (9 a. m.) *Four hours class-work weekly.*
General Chemistry.
Laboratory Work. (*Five hours weekly.*)

GERMAN: *Minor A.* (11 a. m.) *Four hours weekly.*
Classics: Schiller; Goethe.
Prose Reading: Seidel; Baumbach.
Composition. Private Reading.

Or

FRENCH: *Minor A. Four hours weekly.*
Modern Prose and Poetry.
Selected Classics.
Composition. Private Reading.

Second Year

CHEMISTRY. (9 a. m.) *Four hours class-work weekly.*
Advanced Inorganic Chemistry.
Chemistry of Carbon Compounds.
Laboratory Work. (*Five hours weekly.*)

ENGLISH LITERATURE. *Three hours weekly.*
Outline History.
Critical Study of Important Writers.
Private Reading.

BIOLOGY. (10 a. m.) *Four hours class-work weekly.*
General Biology.
Elements of Systematic Botany.
Laboratory Work. (*Five hours weekly.*)

Students who have passed French or German as the principal subject in place of Greek for matriculation, must substitute here some other four-hour course.

Third Year

BIOLOGY. (9 a. m.) *Four hours class-work weekly.*
Elements of Zoology and Comparative Anatomy.
Elements of Botany.
Embryology.
Laboratory Work. (*Five hours weekly.*)

*ELECTIVE COURSE. *Two hours weekly.*

PHILOSOPHY. (11 a. m.) *Five hours weekly.*
Logic, Psychology, and Ethics.

HISTORY AND ECONOMICS. (10 a. m.) *Four hours weekly.*
Historical Politics. *Two hours.*
Elements of Economics. } *Two hours.*
Applied Economics. }

*For 1904-1905, elective courses are offered in the following subjects: Differential Equations, Hebrew, Latin, Greek, German, French Italian, Spanish, English Literature, History of Philosophy (one hour).

Fourth Group (*Geological-Biological*)

First Year

CHEMISTRY. (9 a. m.) *Four hours class-work weekly.*
General Chemistry.
Laboratory Work. (*Five hours weekly.*)

GERMAN: *Minor A.* (11 a. m.) *Four hours weekly.*
Classics: Schiller; Goethe.
Prose Reading: Seidel; Baumbach.
Composition. Private Reading.
Or
FRENCH: *Minor A. Four hours weekly.*
Modern Prose and Poetry.
Selected Classics.
Composition. Private Reading.

PHYSICS. (10 a. m.) *Four hours class-work weekly.*
Elementary Mechanics.
Heat.
Electricity and Magnetism.
Sound.
Light.
Laboratory Work. (*Five hours weekly.*)

RHETORIC AND ENGLISH COMPOSITION. (12 m.) *Three hours weekly.*
Principles of Rhetoric.
Rhetorical Analysis.
Practice in Writing.

Second Year

BIOLOGY. (10 a. m.) *Four hours class-work weekly.*
General Biology.
Elements of Systematic Botany.
Laboratory Work. (*Five hours weekly.*)

ENGLISH LITERATURE. *Three hours weekly.*
Outline History.
Critical Study of Important Writers.
Private Reading.

GEOLOGY. (12 m.) *Four hours class-work weekly.*
Physical Geology.
Outline Paleontology.
Historical Geology.
Laboratory Work. (*Three hours weekly.*
Excursions.

Students who have passed French or German as the principal subject in place of Greek for matriculation, must substitute here some other four-hour course.

Third Year

PHILOSOPHY. (11 a. m.) *Five hours weekly.*
Logic, Psychology, and Ethics.

HISTORY AND ECONOMICS. (10 a. m.) *Four hours weekly.*
Historical Politics. *Two hours.*
Elements of Economics. } *Two hours.*
Applied Economics. }

GEOLOGY. (9 a. m.) *Four hours class-work weekly.*
Crystallography.
Descriptive Mineralogy.
Elementary Petrography.
Laboratory Work. (*Three hours weekly.*)
Excursions.

*ZOOLOGY *or* BOTANY. (Elective.) *Two hours weekly.*

*In 1904-1905, one of the following two-hour elective courses may be substituted for Zoology or Botany: Differential Equations, Hebrew, Latin, Greek, German, French, Italian, Spanish, English Literature.

Fifth Group (*Latin-Mathematical*)

First Year

LATIN.
CLASS WORK. (9 a. m.) *Four hours weekly.*
Livy (two books).
Horace (selections).
Prose Composition.
PRIVATE READING:
Cæsar, *Bellum Civile* (book i).
Tacitus, *Agricola.*
Ovid, *Fasti* (selections).
Vergil, *Aeneid* (books ix, xii).

RHETORIC AND ENGLISH COMPOSITION. (12 m.) *Three hours weekly.*
Principles of Rhetoric.
Rhetorical Analysis.
Practice in Writing.

MATHEMATICS. *Four hours weekly.*
Plane Analytic Geometry.
Differential and Integral Calculus.
Practical Exercises. (*Two hours weekly.*)

GERMAN: *Minor A.* (11 a. m.) *Four hours weekly.*
Classics: Schiller; Goethe.
Prose Reading: Seidel; Baumbach.
Composition. Private Reading.
Or
*FRENCH: *Minor A. Four hours weekly.*
Modern Prose and Poetry.
Selected Classics.
Composition. Private Reading.

Second Year

MATHEMATICS. (9 a. m.) *Four hours weekly.*
Determinants.
Differential and Integral Calculus (special topics).
Theory of Equations.
Elements of Projective Geometry.
Analytic Geometry of Three Dimensions.
Practical Exercises. (*Two hours weekly.*)

LABORATORY COURSE. *Four hours class-work weekly.*
Chemistry (9 a.m.), *or* Physics (10 a.m.), *or* Biology (10 a.m.). } Lectures, recitations, and laboratory work.

ENGLISH LITERATURE. *Three hours weekly.*
Outline History.
Critical Study of Important Writers.
Private Reading.

Students who have passed French or German as the principal subject in place of Greek for matriculation, must substitute here some other four-hour course.

Third Year

LATIN.
CLASS WORK. (9 a. m.) *Four hours weekly.*
Catullus.
Roman Elegy (selections).
Plautus (one play).
Terence (one play).
Reading at Sight.
Prose Composition.
PRIVATE READING:
Quintilian (book x).
Plautus, *Miles Gloriosus.*

PHILOSOPHY. (11 a. m.) *Five hours weekly.*
Logic, Psychology, and Ethics.

HISTORY AND ECONOMICS. (10 a. m.) *Four hours weekly.*
Historical Politics. *Two hours.*
Elements of Economics. } *Two hours*
Applied Economics.

**ELECTIVE COURSE. *Two hours weekly.*

*The French may be deferred until the third year by taking, in the first or second year (as a substitute for History and Economics), a four-hour course in History.

**For 1904-1905, elective courses are offered in the following subjects: Differential Equations, Zoology or Botany, Hebrew, Latin, Greek, German, French, Italian, Spanish, English Literature, History of Philosophy (one hour).

Sixth Group (*Historical-Political*)

First Year

GERMAN: *Minor A.* (11 a. m.) *Four hours weekly.*
Classics: Schiller; Goethe.
Prose Reading: Seidel; Baumbach.
Composition. Private Reading.

Or

FRENCH: *Minor A. Four hours weekly.*
Modern Prose and Poetry.
Selected Classics.
Composition. Private Reading.

RHETORIC AND ENGLISH COMPOSITION. (12 m.) *Three hours weekly.*
Principles of Rhetoric.
Rhetorical Analysis.
Practice in Writing.

ANCIENT HISTORY. (10 a. m.) *Four hours weekly.*
Greece.
Rome.
Readings from Classical Historians.

LATIN.
CLASS WORK. (9 a. m.) *Four hours weekly.*
Livy (two books).
Horace (selections).
History of Roman Literature.
Sight Reading.
PRIVATE READING:
Cæsar, *Bellum Civile* (book 1).
Tacitus, *Agricola.*
Ovid, *Fasti* (selections).
Vergil, *Aeneid* (books ix, xii).

Second Year

HISTORY. (11 a.m.) *Four hours weekly.*
Civilization in the Far East. *Two hours.*
Reformation. } *Two hours.*
France and Germany. }

ENGLISH LITERATURE. *Three hours weekly.*
Outline History.
Critical Study of Important Writers.
Private Reading.

POLITICAL ECONOMY. (10 a. m.) *Four hours weekly.*
Elements of Economics.
Money; Taxation.
History of Economic Thought.
Tariff; Transportation.

Students who have passed French or German as the principal subject in place of Greek for matriculation, must substitute here some other four-hour course.

Third Year

CONSTITUTIONAL HISTORY. (12 m.) *Four hours weekly.*
English Constitutional History. *Two hours.*
American Constitutional History. *Two hours.*

Or

POLITICAL ECONOMY. *Four hours weekly.*
Theory of Political Economy. *Two hours.*
Modern Economic Institutions. *Two hours.*

*ELECTIVE COURSE. *Two hours weekly.*

LABORATORY COURSE. *Four hours class-work weekly.*
Chemistry (9 a.m.), *or* Physics (10 a.m.), *or* Biology (10 a. m.). } Lectures, recitations, and laboratory work.

PHILOSOPHY. (11 a. m.) *Five hours weekly.*
Logic, Psychology, and Ethics.

*For 1904-1905, elective courses are offered in the following subjects: Differential Equations, Zoology or Botany, Hebrew, Latin, Greek, German, French, Italian, Spanish, English Literature, Political Economy, History of Philosophy (one hour).

Seventh Group (*Modern Languages*)

First Year

LATIN. (9 a. m.) *Four hours weekly.*
Livy (two books).
Horace (selections).
Prose Composition.
Private Reading: Cæsar, *Bellum Civile* (book 1); Tacitus, *Agricola;* Ovid, *Fasti* (selections); Vergil, *Aeneid* (books ix, xii).

ENGLISH. (1 p. m.) *Four hours weekly.*
Early English Texts.
English Literature.

LABORATORY COURSE. *Four hours class-work weekly.*
*Chemistry (9 a.m.), *or* Physics (10 a.m.), *or* Biology (10 a. m.). } Lectures, recitations, and laboratory work.

RHETORIC AND ENGLISH COMPOSITION. (12 m.) *Three hours weekly.*
Principles of Rhetoric.
Rhetorical Analysis.
Practice in Writing.

Second Year

GERMAN: *Minor A.* (11 a. m.) *Four hours weekly.*
Classics: Schiller; Goethe.
Prose Reading: Seidel; Baumbach.
Composition. Private Reading.
Or
FRENCH: *Minor A. Four hours weekly.*
Modern Prose and Poetry.
Selected Classics.
Composition. Private Reading.

HISTORY AND ECONOMICS. (10 a. m.) *Four hours weekly.*
Historical Politics. *Two hours.*
Elements of Economics } *Two hours.*
Applied Economics. }

ELECTIVE COURSES. *Three hours weekly.*
[See foot-note, page 201.]

Students who have passed French or German as the principal subject in place of Greek for matriculation, must substitute here some other four-hour course.

Third Year

A.

FRENCH. (12 m.) *Four hours weekly.*
Nineteenth Century Prose.
Classics.
History of French Literature.
Composition and Idioms.
Exercises in Pronunciation, Recitation, and Conversation; Private Reading.

or C.

SPANISH. (9 a. m.) *Four hours weekly.*
Ramsey's *Spanish Grammar;* Exercises in Composition.
Matzke's *Spanish Readings;* Alarcon, *El Capitan Veneno;* Galdos, *Dona Perfecta;* Tamayo, *Un Drama Nuevo;* Cervantes, *Don Quijote.*
Clarke's *History of Spanish Literature.*

PHILOSOPHY. (11 a. m.) *Five hours weekly.*
Logic, Psychology, and Ethics.

ELECTIVE COURSE. *Two hours weekly.*
[See foot-note, page 201.]

or B.

GERMAN. (11 a.m.) *Four hours weekly.*
Classics: Goethe, *Faust;* Schiller, *Wallensteins Lager, Piccolomini.*
Selected Poems.
History of German Literature.
Composition and Grammar.
Private Reading: Schiller, *Wallensteins Tod.*

or D.

ITALIAN. (9 a.m.) *Four hours weekly.*
Grandgent's *Grammar* and *Composition;* Garnett's *Italian Literature.*
Prose Readings: De Marchi, Goldoni, Boccaccio.
Selected poetry of Ariosto and Dante.

ENGLISH. (12 m.) *Four hours weekly.*
Anglo-Saxon.
Early Scottish Poets.
Elizabethan Literature.
Literature of the first half of XIX Century.

*If Chemistry be chosen, it should be taken in the second year, and German or French in the first year.

SYNOPSIS OF GROUPS

Group I	Group II	Group III	Group IV	Group V	Group VI	Group VII
FIRST YEAR						
Latin, 9-10. German, 11-12. Rhetoric, 12-1. Greek, 1-2.	Chemistry, 9-10. German, 11-12. or **French. Rhetoric, 12-1. Mathematics.	Chemistry, 9-10. Physics, 10-11. German, 11-12. or French. Rhetoric, 12-1.	Chemistry, 9-10. Physics, 10-11. German, 11-12. or French. Rhetoric, 12-1.	Latin, 9-10. German, 11-12. or **French. Rhetoric, 12-1. Mathematics.	Latin, 9-10. History, 10-11. German, 11-12. or French. Rhetoric, 12-1.	Latin, 9-10. Chemistry, 9-10.* or Biology or Physics } 10-11. Rhetoric, 12-1. English, 1-2.
SECOND YEAR						
Latin, 9-10. Chemistry, 9-10.* or Biology or Physics } 10-11. Greek, 12-1. English Literature.	Mathematics, 9-10. Physics, 10-11. English Literature. A four-hour Course.	Chemistry, 9-10. Biology, 10-11. English Literature. A four-hour Course.	Biology, 10-11. Geology, 12-1. English Literature. A four-hour Course.	Mathematics, 9-10. Chemistry, 9-10. or Biology or Physics. } 10-11. English Literature. A four-hour Course.	Political Economy, 10-11. History, 11-12. English Literature. A four-hour Course.	History and Economics, 10-11. German, 11-12. or French. Elective Courses. A four-hour Course.
THIRD YEAR						
History and Economics, 10-11. Philosophy, 11-12. French, 12-1. Comp. Philology. Elective Course.	History and Economics, 10-11. Philosophy, 11-12. Physics, 12-1. Elective Course.	Biology, 9-10. History and Economics, 10-11. Philosophy, 11-12. Elective Course.	History and Economics, 10-11. Philosophy, 11-12. Geology, 9-10. Zoology or Botany (*elective*).	Latin, 9-10. History and Economics, 10-11. Philosophy, 11-12. Elective Course.	Chemistry, 9-10. or Physics or Biology. } 10-11. Philosophy, 11-12. Constitutional History, 12-1. or Political Economy. Elective Course.	Italian or Spanish. } 9-10. or German, 11-12. or French, 12-1. Philosophy, 11-12. English, 12-1. Elective Course.

*See footnotes on pages 196, 202.
**See footnotes on pages 197, 200.

HOURS OF COLLEGE COURSES

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9	French (Minor A). Elective Courses. Mathematics (Minor). English Literature. Mathematics (Prelim.).	Latin (Major). Latin (Minor). Chemistry (Minor). Chemistry (Major). Biology (Major). Mathematics (Major). Italian (Minor). Geology (Major). Spanish (Minor). French (Elements). German (Elements).	Latin (Major). Latin (Minor). Chemistry (Minor). Chemistry (Major). Biology (Major). Mathematics (Major). Italian (Minor). Geology (Major). Spanish (Minor). French (Elements). German (Elements).	Latin (Major). Latin (Minor). Chemistry (Minor). Chemistry (Major). Biology (Major). Mathematics (Major). Italian (Minor). Geology (Major). Spanish (Minor).	Latin (Major). Latin (Minor). Chemistry (Minor). Chemistry (Major). Biology (Major). Mathematics (Major). Italian (Minor). Geology (Major). Spanish (Minor). French (Elements). German (Elements).
10	Physics (Minor). Biology (Minor). History and Economics. History (Minor). Political Economy (Minor). Greek (Preliminary).	French (Minor A). Elective Courses. Mathematics (Minor). English Literature. Mathematics (Prelim.).	Physics (Minor). Biology (Minor). History and Economics. History (Minor). Political Economy (Minor). Latin (Preliminary).	Physics (Minor). Biology (Minor). History and Economics. History (Minor). Political Economy (Minor). Latin (Preliminary).	Physics (Minor). Biology (Minor). History and Economics. History (Minor). Political Economy (Minor). Latin (Preliminary).
11	German (Major). German (Minor A). German (Minor B). Philosophy. History (Major).	German (Major). German (Minor A). German (Minor B). Philosophy. History (Major).	Mathematics (Minor). English Literature. Philosophy. Mathematics (Prelim.)	German (Major). German (Minor A). German (Minor B). Philosophy. History (Major).	German (Major). German (Minor A). German (Minor B). Philosophy. History (Major).
12	Greek (Major). French (Major). French (Minor B). Physics (Major). Constitutional History. English (Major). Rhetoric. Geology (Minor).	Greek (Major). French (Major). French (Minor B). Physics (Major). Constitutional History. English (Major). Rhetoric. Geology (Minor).	Greek (Major). French (Major). French (Minor B). Physics (Major). Constitutional History. English (Major). Rhetoric. Geology (Minor).	French (Minor A). Mathematics (Minor). Elective Courses. Mathematics (Prelim.). Geology (Minor).	Greek (Major). French (Major). French (Minor B). Physics (Major). Constitutional History. English (Major).
1	Greek (Minor). English (Minor).	Greek (Minor). English (Minor).	Greek (Minor). English (Minor).	Greek (Preliminary). Greek (Minor). English (Minor).	Greek (Preliminary). Elective Courses. French (Minor A).

REQUISITES FOR THE DEGREE OF BACHELOR OF ARTS.

As an evidence that the collegiate course has been successfully completed, the degree of Bachelor of Arts is conferred at its close. The degree signifies, in the case of every recipient, such instruction in ancient and modern languages, in mathematics, in the physical and natural sciences, in literature, philosophy, and history, as is believed to be essential to a liberal education. The candidate must, in addition to all the requirements for admission and matriculation, absolve—

(*a*) The following prescribed courses: Rhetoric; English Literature; Economics and History; Philosophy; the minor course* in French and the minor in German; exercises in English Composition, as prescribed by the Collegiate Professor of English; Drawing; Physical and Vocal Culture.

(*b*) Five courses, each occupying four hours weekly for one year, of which at least one must be a major course, and at least one must be a laboratory course**; also an elective course, two hours weekly during the third year.

In all cases, the candidate must pursue the last year of his undergraduate course in this institution, and must have completed his matriculation before entering upon that year, unless for special reasons, the Board of Advisers shall have permitted a postponement of some portion of the matriculation requirements. Such special reasons must, in all ordinary cases, be submitted to the Board not later than the close of the year preceding the last; and in no case will they be considered later than October of the last year.

Each instructor files in the office, about the time of the winter and spring recesses and at the close of the year, a report of the progress of each member of his classes, deduced from daily observation, or examinations, or both.

*A "minor course" is the first year of instruction in any subject; a "major course" is the second year of instruction.

**If the major course selected be a laboratory course, an additional laboratory course will not be required.

These reports are called the Intermediate Records. Other reports (*e. g.* of private readings, or of the completion of a particular book or subject) may be made by the instructor at any time.

At the close of the year, the university holds an examination of each class on the whole year's work, known as the University Examination, the reports of which are also put on file in the office.

From the Intermediate Records and the reports of the University Examination, the Board of Collegiate Advisers causes to be made up an average mark, on the authorized scale, for the work of the whole year, which alone determines the standing of any candidate for honors. This constitutes the Final Record.

The reports of all these examinations are carefully recorded and preserved, and the degree of Bachelor of Arts is conferred only when the records show that the prescribed amount of work has been satisfactorily completed.

Regular attendance upon the prescribed exercises is required. Satisfactory certificates must be presented from the teachers of drawing, physical training, and vocal culture. One or more of the essays which the candidate has written, copied by his own hand in a prescribed style, must be left with the Registrar before the twenty-fifth of May preceding graduation, for presentation to the Board of Collegiate Advisers.

No uniform length of residence is prescribed as necessary to the attainment of the bachelor's degree. Students who fully meet, at entrance, the requirements for matriculation (see pages 209-211) and who maintain a satisfactory standing in the full work of each year, may be graduated in three years. Other students will require four years. But a young man who comes with attainments beyond what are required for matriculation, or who possesses unusual ability, may complete the work in less than three

years. No one is kept back by the requirements of the ordinary class system.

ADVISERS.

Before an undergraduate student begins his academic work, the President designates one of his principal instructors to act as his Adviser. The approval of the Adviser is necessary before the student can enter upon any course of study; no instructor will receive into a class any student who does not bring with him (in a book provided for that purpose) assurance that his Adviser approves his pursuing the study at that time; and no student is allowed, without the consent of his Adviser, to discontinue any work. Each Adviser endeavors to establish relations of friendliness and confidence with the students assigned to his care; he not only gives counsel in regard to the selection of studies, but promotes the welfare of his students in every practicable way.

REQUIREMENTS FOR ADMISSION.

Those who wish to pursue undergraduate courses are expected to appear at the regular times appointed for examination in June and September. Persons at a distance desiring information are requested to write for a blank form of "Application for Admission," which may be filled up and returned to the university. Upon its receipt, such counsel will be given as the case requires.

(*a*) Matriculated Students

Students who fully meet, at entrance, the requirements for matriculation (as stated on pages 209-211), and who maintain a satisfactory standing in the full work of each year, may be graduated in three years.

Students who fail to meet, at entrance, the full matriculation requirements, or whose work, after admission, is unsatisfactory, will need a longer period of residence.

The matriculation examination may be divided, and a part of the subjects passed in one year and the rest a year later, according to the regulations prescribed below (see page 212).

When a school, approved by the Academic Council, shall certify that a candidate has satisfactorily completed *all the studies requisite for matriculation,* such candidate will be exempted from examination, except in the following subjects: Trigonometry, Analytic Geometry, Cicero or Vergil (as the candidate may prefer), Latin Prose Composition, Homer or Herodotus (as the candidate may prefer), Greek Prose Composition, the minor courses in French and German, English, and Science. The examination in these subjects may be divided between June and September of the same year, but, except in the case of English, not between successive years.

(*b*) CANDIDATES FOR MATRICULATION

The matriculation examination may be passed, at entrance, by those who have completed the courses now offered in several preparatory schools of Baltimore. Persons taught elsewhere are often unable to obtain instruction in all the subjects requisite for matriculation. To meet the needs of such students, terms of admission are offered (as described on page 213), corresponding to the terms of admission to other colleges of established reputation. Students who satisfy these requirements may be admitted to the course of study described on pages 191, 192. In the case of such persons, a residence of four years will be necessary to the attainment of the degree of Bachelor of Arts.

(*c*) SPECIAL STUDENTS

The University discourages from entering as special students those who are not qualified, by age, character,

attainments, and habits of study, to attend its classes and lectures with profit to themselves and credit to the institution. The authorities are, however, ready to receive, as special students, properly qualified persons who have some good reason for not pursuing the full course. A special examination is arranged for such persons (see page 213). Many excellent students have been thus enrolled, among whom not a few have subsequently changed their plans, passed the matriculation examination, and at length received the degree of Bachelor of Arts. The privilege once accorded will be forfeited at any time, if the student is found unworthy of it.

Requirements for Matriculation

1. *Mathematics.*—Algebra; Plane and Solid Geometry; Plane Trigonometry; Analytic Geometry. A competent knowledge of Arithmetic (including the metric system) is assumed.

The requirements in Algebra are as follows:

(*A*). To Quadratics, including the four fundamental rules, the use of parentheses, factoring, highest common factor, lowest common multiple, complex fractions, equations of the first degree in one or more unknown quantities, and problems leading to such equations, inequalities, radicals, and the use of fractional and negative exponents.

(*B*). Quadratics and beyond, including quadratic equations in one and two unknown quantities, and problems leading to such equations, the theory of quadratic equations in one unknown quantity, ratio and proportion, the progressions, the elementary treatment of permutations and combinations, the binomial theorem for positive integral exponents, and the use of logarithms.

The subjects required in Plane and Solid Geometry and in Trigonometry are those treated in the ordinary text-books.

The subjects required in Analytic Geometry are the straight line in rectangular co-ordinates, transformation of co-ordinates, loci, and plotting of curves.

SUBSTITUTIONS: Students selecting groups which do not include Minor Mathematics or Major Physics may, in case they offer Greek for matriculation, substitute the elements of either German or French (*4a* or *5a*, page 210) for Analytic Geometry; or the elements of both German and French for Plane Trigonometry and Analytic Geometry.

Students selecting groups which do not include Minor Mathematics or Major Physics, may, in case they offer—in place of Greek—German and French (*4a* and *4b*, or *5a* and *5b*, page 210) for matriculation, substitute for Plane Trigonometry and Analytic Geometry (*a*) the Minor Course in Latin, or (*b*) the Minor Course in French or in German.

2. *Latin.*—Cæsar, *Gallic War*, five books; Vergil, *Eclogues*, and *Aenid*, six books; Ovid, 2500 lines; Cicero, seven orations (including *de imperio Pompeii, pro Archia, and in Verrem, act I*); translation of easy English prose into Latin.

SUBSTITUTION: Sallust's *Catiline* may be substituted for one book of Cæsar, and Cicero's *de Senectute* for the *de imperio Pompeii.*

The examination will test the power of exact and idiomatic translation, the knowledge of forms, of syntax, and of prosody. In certain cases a candidate may be allowed to take an oral, instead of a written, examination. If, for instance, he has not been prepared on the books above prescribed, but has read about the same amount in other books, he may be examined on these.

The amount of text above stated should be sufficient to prepare the student to undergo an examination for which no attempt will be made to select a passage previously read.

Candidates are required to specify, in their applications, the books they have read.

3. *Greek.*—Xenophon, *Anabasis,* books i-iv; Homer, *Iliad,* books i-iv; Herodotus, book vii; translation of easy English prose into Greek.

Candidates will be expected to show an accurate knowledge of forms, and an acquaintance with the common rules of syntax and accent and with the prosody of the Homeric poems.

In case any candidate has made his preparation by the study of books other than those named above, or for any reason believes that an oral examination would be for his advantage, he may be examined upon easy passages previously unseen; if he acquits himself well, he will be required to put on paper only the passage given to be translated into Greek prose.

4, 5. *German and French.*—Candidates not offering Greek must offer one of the following combinations. In one of the modern languages the elements are required; in the other an amount of knowledge equal to that represented by the minor or first year's collegiate course:

4

(*a*) *German: Elements.*

The elementary course is intended to include translation and reading at sight of easy dialogue and narrative prose. The candidate must also be able to render into German short English sentences, taken from the language of everyday life, or based on the texts for translation.

Candidates should give particular attention to pronunciation, to the acquisition of an elementary German vocabulary, and to an accurate knowledge of the rudiments of grammar.

The following books are recommended:

Vos, *Essentials of German;* Vos, *Materials for German Conversation,* pp. 1-35 (I-XLVIII); Storm, *Immensee;* Gerstäcker, *Germelshausen.*

(*b*) *French: Minor Course.*

Grammar: Fraser and Squair: *French Grammar and Reader* entire.

Translation into French of a passage of English prose based on a French text given.

Translation: Kuhns' *French Reader;* Labiche: *Le Voyage de M. Perrichon;* About: *La Mère de la Marquise;* Dumas: *La Question d'Argent;* Augier: *Le Gendre de M. Poirier;* Daudet: *Contes* (ed. Cameron); Molière: *L'Avare;* Hugo: *Hernani.*

5

(*a*) *French: Elements.*

Grammar: The rudiments of grammar, including the inflection of the regular and the more common irregular verbs, the plural of nouns, the inflection of adjectives, participles, and pronouns, the use of personal pronouns, common adverbs, prepositions, and conjunctions, the order of words in the sentence, and the elementary rules of syntax. Easy exercises in French Composition. *Part I* of the Fraser and Squair *French Grammar* is recommended as a text book.

Translation: Kuhns' *French Reader;* Labiche and Martin, *Le Voyage de M. Perrichon.*

(*b*) *German: Minor Course.*

Vos, *Essentials of German;* Vos, *Materials for German Conversation,* pp. 1-35 (I-XLVIII); Storm, *Immensee;* Gerstäcker, *Germelshausen;* von Wildenbruch, *Das Edle Blut;* von Moser, *Der Bibliothekar;* Riehl, *Der Fluch der Schonheit;* Schiller, *Wilhelm Tell* (ed. Palmer); Lessing, *Minna von Barnhelm* (ed. Cutting); Goethe, *Hermann und Dorothea* (ed. Thomas); Prose Composition (Whitney's *Grammar,* Exercises, 2nd Series).

The amount of German and French accepted as a substitute for Greek at matriculation may not count also as a part of the work required for graduation.

READING AT SIGHT. The language papers, both ancient and modern, will contain one passage, or more, of moderate difficulty, not included in the prescribed lists. A good handling of passages previously unseen will go far toward compensating for deficiencies in the formal requirements. This does not apply, however, to the examination in the *elements* of French and German.

6. *English.*—The examination will consist of two parts:

I. READING. The candidate will be required to write a paragraph or two on each of several topics chosen by him from a considerable number —perhaps ten or fifteen—set before him in the examination paper. This part of the examination is designed, primarily, to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. As additional evidence of preparation, the candidate may present an exercise book, properly certified by his instructor, containing compositions or other written work.

In 1904 and 1905: Shakespeare's *The Merchant of Venice* and *Julius Caesar;* *The Sir Roger de Coverley Papers* in *The Spectator;* Goldsmith's *The Vicar of Wakefield;* Coleridge's *The Ancient Mariner;* Scott's *Ivanhoe;* Carlyle's *Essay on Burns;* Tennyson's *The Princess;* Lowell's *The Vision of Sir Launfal;* George Eliot's *Silas Marner.*

In 1906 and 1907: Shakespeare's *The Merchant of Venice* and *Macbeth;* *The Sir Roger de Coverley Papers* in *The Spectator;* Irving's *Life of Goldsmith;* Coleridge's *The Ancient Mariner;* Scott's *The Lady of the Lake* and *Ivanhoe;* Tennyson's *Gareth and Lynette, Lancelot and Elaine,* and *The Passing of Arthur;* Lowell's *The Vision of Sir Launfal;* George Eliot's *Silas Marner.*

II. STUDY AND PRACTICE. This part of the examination presupposes the careful study of each of the works named below. The examination will be upon subject-matter, form, and structure, and will also test the candidate's ability to express his knowledge with clearness and accuracy.

The books set for this part of the examination will be:

1904 and 1905: Shakespeare's *Macbeth;* Milton's *L'Allegro, Il Penseroso, Comus,* and *Lycidas;* Burke's *Speech on Conciliation with America;* Macaulay's *Essays on Milton and Addison.*

In 1906 and 1907: Shakespeare's *Julius Caesar;* Milton's *L'Allegro, Il Penseroso, Comus,* and *Lycidas;* Burke's *Speech on Conciliation with America:* Macaulay's *Essay on Milton* and *Life of Johnson.*

The reading and study of the works named above is recommended to all candidates; equivalents will, however, be accepted, provided that the amount of reading be about equally divided between prose and verse.

In connection with the reading and study of the required books, parallel or subsidiary reading should be encouraged, and a considerable amount of English poetry should be memorized. The essentials of English Grammar should not be neglected in preparatory study.

NOTE.—No candidate will be accepted in English whose work is notably defective in point of spelling, punctuation, idiom, or division into paragraphs.

Although candidates will be permitted to take the entire examination at the time of entrance, it is strongly recommended that Part I be taken as a preliminary examination, and Part II as a final examination. Candidates will thus have an opportunity to make up deficiencies which may be discovered at the preliminary examination, and to enter the university without a condition in English.

7. *History.*—The outlines of the History of England and the United States, or of the History of Greece and Rome, and the outlines of Geography.

8. *Science.*—The elements of Chemistry, Botany, or Physical Geography.

The examination is intended to determine whether the candidate has a knowledge of the elementary facts of one of these sciences, based on practical study. Those who take the examination in Chemistry will be examined in Remsen's "Elements of Chemistry," and will be required to have performed the

experiments described in Remsen's "Laboratory Manual," and to present their laboratory note-books for examination. The requirements in Botany include a knowledge of the structure of plants, such as may be obtained from a study of Spauldings "Introduction to Botany," excluding the microscopic work, and the ability to use Gray's Manual in determining the species of flowering plants. The examination will be mainly practical. In order to absolve the requirements in Physical Geography, the student must pass an examination on Davis's "Physical Geography," or Tarr's "Elementary Physical Geography."

Division of the Matriculation Examination

A student may pass a part of the matriculation examination one year before his admission to the University, and receive credit for the same under the following conditions:

In his application *he must distinctly declare his intention to divide the examination.* The subjects passed will not count towards matriculation, unless the candidate completes his matriculation the following year. The first part of the divided examination will be confined to the following subjects, of which the candidate will be expected to pass in English (part I), Algebra, one Latin author, and three of the remaining subjects:*

English (Part I).
Algebra (A). (See p. 209).
Plane Geometry.
Cæsar, *Gallic War,* five books.
Vergil, *Aeneid,* books i-vi.
Xenophon, or French, or German.
History of the United States or of Greece.
History of England or of Rome.
Science.

*Schools approved by the Academic Council, according to the plan described on page —, may recommend, for examination in English (part I) and in Science, candidates who do not wish to attempt the other subjects required in the first part of the divided examination.

If French or German is offered in place of Xenophon, the candidate will be examined as follows:

In *German:* Vos, *Essentials of German;* Vos, *Materials for German Conversation,* pp. 1-35 (I-XLVIII); Schiller's *Wilhelm Tell;* Prose Composition, sentences of moderate difficulty to be translated into German at sight.

Or in *French:* The Fraser and Squair *French Grammar, Part I,* with the exercises; Kuhns' *French Reader;* About, Augier, Dumas (as on page 210); Prose Composition, sentences of moderate difficulty to be translated into French at sight.

The whole of the above amounts must be offered.

Requirements for Admission as a Candidate for Matriculation

1. *Mathematics.*—Algebra (A and B); Plane Geometry (as for matriculation). A competent knowledge of Arithmetic (including the metric system) is assumed.
2. *Latin.*—Cæsar, *Gallic War,* five books; Ovid, 1000 lines; Vergil, *Aeneid,* books i-vi; Cicero, six orations; translation of easy English prose into Latin.
3. *Greek.*—Xenophon, *Anabasis,* books i-iv; Homer, *Iliad,* books i-iii; translation of easy English sentences into Greek.
4. *German* and *French* (in substitution for *Greek*):
   GERMAN.—Vos, *Essentials of German;* Vos, *Materials for German Conversation,* pp. 1-35 (I-XLVIII); Storm, *Immensee;* Gerstäcker, *Germelshausen.*
   FRENCH.—The Fraser and Squair *French Grammar, Part I;* Kuhns' *French Reader;* Labiche and Martin, *Le Voyage de M. Perrichon.*
5. *English,*—(as for matriculation).
6. *History,*—(as for matriculation).
7. *Science,*—(as for matriculation).

Requirements for Admission as a Special Student

Before an undergraduate is admitted as a special student, he will be required, unless expressly excused for definite reasons, to pass examinations in the following subjects:

1. *Mathematics.*—Algebra (A and B); Plane and Solid Geometry. (As for matriculation.) A competent knowledge or Arithmetic (including the metric system) is assumed.
2. *Latin.*—Cæsar, *Gallic War,* five books; Cicero, six orations; Vergil, *Aeneid,* books i-vi, and *Eclogues.*
   SUBSTITUTION: Students who wish to pursue studies other than linguistic or historical, may substitute for the requirement in Latin the full amount of Mathematics requisite for matriculation (page 209).
3. *Greek.*—Xenophon, *Anabasis,* books i-iv; Homer, *Iliad,* books i, ii.
   SUBSTITUTION: Students who do not offer Greek, will be examined in French or German as specified under "Division of the Matriculation Examination" (page 212), and in the History of Greece and Rome.
4. *English,*—(as for matriculation).
5. *United States History,*—(as for matriculation).
6. *Science,*—(as for matriculation).

Schedule of Matriculation Examinations, 1904

Wednesday, June 15 and September 28.

9-10 a. m.—History.
10-11 a. m.—Science.
11 a. m.-1 p. m.—English.
3-6 p. m.—Latin.

Thursday, June 16 and September 29.

9-11 a. m.—Arithmetic and Algebra.
11 a. m.-12 m.—French and German (*elements*).
3-6 p. m.—Plane and Solid Geometry.

Friday, June 17 and September 30.

9-10.30 a. m.—Trigonometry.
10.30 a. m.-12 m.—Analytic Geometry.
3-6 p. m.—Greek.
3-6 p. m.—French and German (minor courses).
3-4 p. m.—German (elements).

II. FACULTY OF MEDICINE

Terms of Admission

The courses in medicine given in this university are planned for the professional education of those students who have been especially fitted to receive instruction by a course of preliminary training in the liberal arts, and especially in those branches of science, like physics, chemistry, and biology, which underlie the medical sciences. Men and women are admitted upon the same terms.

The following classes of students are received as candidates for the degree of Doctor of Medicine:

1. Those who have satisfactorily completed the Chemical-Biological course which leads to the A. B. degree in this university.

2. Graduates of approved colleges or scientific schools who can furnish evidence: (*a*) That they have acquaintance with Latin and a reading knowledge of French and German; (*b*) That they have such knowledge of physics, chemistry, and biology as is imparted by the regular minor courses given in these subjects in this university.

The phrase "a minor course," as here employed, means a course that requires a year for its completion. In each of these scientific courses, four class-room exercises and two afternoons a week in the laboratory are required.

Many inquiries have been received regarding the character and amount of the requisite training indicated by the term "minor course" in these sciences. In explanation it may be stated, with respect to biology, that the candidate should have followed for at least a year a laboratory course in the structure, life history, and vital activities of selected types of animal and vegetable life. In the Chemical-Biological course for undergraduates in this university, the laboratory work in biology (minor course) at present includes the study of such types as amœba, hæmatococcus, yeast, penicilium, bacteria, mushroom, hydra, vorticella, a fern, a flowering plant, the earthworm, lobster, anodon; the gross and minute anatomy of the frog, the development of its eggs, the structure, formation, and met-

amorphoses of the tadpole; dissection of a mammal; the field and laboratory study of some few flowering plants. The laboratory work is the most important part, the lectures and other exercises subsidiary. It is, of course, not to be understood that this curriculum of biological work must be rigidly followed. Equivalent work will be accepted.

The candidate should have followed a course in general chemistry for at least a year. This course should include laboratory work, about five hours a week through the year, and lectures and class-room work covering the outlines of inorganic chemistry and the elements of organic chemistry. A good knowledge of the subject as presented in Remsen's "Introduction to the Study of Chemistry" may be regarded as the minimum requirement. A fuller knowledge of chemistry is desirable.

In physics, the candidate should have followed a collegiate course for at least one year. This should include four hours a week of class-room work and at least one afternoon a week of quantitative work in the laboratory. Special attention should be given to theoretical mechanics and to the mechanical and electrical experiments.

In Latin the candidate should have studied Latin grammar and should possess at least such knowledge of the language as may be acquired by reading four books of Cæsar or their equivalent.

3. Those who give evidence by examination that they possess the general education implied by a degree in arts or in science from an approved college or scientific school, and the knowledge of French, German, Latin, physics, chemistry, and biology above indicated.

Applicants for admission will receive blanks to be filled out relating to their previous courses of study.

They are required to furnish certificates from officers of the colleges or scientific schools where they have studied, as to the courses pursued in physics, chemistry, and biology. If such certificates are satisfactory, no examination in these subjects will be required from those who possess a degree in arts or in science from an approved college or scientific school.

Hearers and special workers, not candidates for a degree, will be received at the discretion of the Faculty.

ADMISSION TO ADVANCED STANDING

Applicants for admission to advanced standing must furnish evidence (1) that the foregoing terms of admission as regards preliminary training have been fulfilled,

(2) that courses equivalent in kind and amount to those given here, preceding that year of the course for admission to which application is made, have been satisfactorily completed, and, (3) must pass examinations, at the beginning of the session in October, in all the subjects that have been already pursued by the class to which admission is sought. Certificates of standing elsewhere cannot be accepted in place of these examinations.

General Plan of Instruction

The course of instruction is planned for those who have received a liberal education and the training in physics, chemistry, and general biology which has been specified. The required period of study for the degree of Doctor of Medicine is four years. The academic year begins on the first of October and ends about the middle of June. There are short recesses at Christmas and Easter.

The first two years of the course are devoted mainly to the fundamental medical sciences, a large part of the time being spent in practical work in the laboratories. In the last two years, medicine, surgery, obstetrics, and the various specialties are studied in the clinical laboratories, the dispensary, and the wards of the hospital.

The principal studies of the first year are anatomy, including normal histology, microscopic anatomy, embryology, physiology, and physiological chemistry. The study of anatomy and physiology is continued in the second year. Throughout the second year general pathology, pathological anatomy, and pharmacology are studied. A practical course in bacteriology, with the chief emphasis upon its hygienic and pathological bearings, is given during three months of this year.

Upon the basis of thorough training in the medical sciences, pursued during the first two years of the course, the student should be well fitted to undertake the study of practical medicine and surgery.

During the third year the general principles of medicine, surgery, and obstetrics are studied, and clinical instruction in medicine and surgery is given. The study of certain special branches of medicine is also begun. Leading features of the work of this year are the courses in the clinical laboratories and practical work in the dispensary.

During the fourth year the practical study of medicine, surgery, and obstetrics is continued, and instruction is given in gynecology and in the various special branches of medicine and surgery, viz: dermatology, diseases of the nervous system, genito-urinary diseases, laryngology, ophthalmology and otology, paediatrics, and psychiatry. In this year the students serve as clinical clerks and surgical dressers in the wards of the hospital and are in daily attendance at special classes in the dispensary. They also attend cases of labor in the obstetrical wards of the hospital, and, under proper supervision, in the homes of patients. For the ward and dispensary work the class is divided into small groups.

Instruction in hygiene, medical zoology, forensic medicine, and medical history is provided during the course.

Work in the dissecting room, in the laboratory, and at the bedside, demonstrations, clinics, lectures, and recitations are the main features of the methods of instruction. Simply didactic lectures occupy a subsidiary position, as compared with instruction by recitations and demonstrations and especially by practical work in the various laboratories, in the hospital wards, and in the dispensary. In consequence of the high standard of admission, the classes are not likely to be excessively large, and abundant opportunity is therefore afforded for practical work for each student and for personal contact between teacher and student.

Special Courses for Graduates in Medicine

Special courses of instruction for graduates in medicine are given during the months of May and June. These courses are in Anatomy, Histology, Pathology, Bacteriology, Clinical Microscopy, Medicine (including Diseases of Children and of the Nervous System), Surgery, Gynecology, Obstetrics and the various special branches of Medicine. The instruction is intended to meet the requirements of practitioners of medicine, and is almost wholly of a practical character. It includes laboratory courses, demonstrations, bedside teaching, and clinics in the wards, dispensary, amphitheatre, and operating rooms of the hospital, together with special courses of lectures on topics of general interest.

Detailed statements as to the courses of instruction and other information are given in the annual Catalogue and Announcement, which will be sent upon application to the Registrar of the Medical Department.

FELLOWSHIPS

I. Fellowships by Courtesy

The Academic Council may, at their discretion, by special vote, enroll as Fellows by Courtesy—

(*a*) Gentlemen who are or who have been teachers in colleges and other like institutions, and who wish, for brief periods, to avail themselves of the opportunities here afforded for study and for the use of books and laboratories.

(*b*) Holders of fellowships in other colleges, during their residence here.

(*c*) Those who have been fellows of this University and desire to continue in residence.

Fellows by Courtesy will not be exempt from the payment of fees, except by a special vote.

II. Fellowships

Twenty fellowships, each yielding five hundred dollars but not exempting the holder from the charges for tuition, are annually awarded in this University.

The system of fellowships was instituted for the purpose of affording to young men of talent from any place an opportunity of continuing their studies in the Johns Hopkins University, while looking forward to positions as professors, teachers, and investigators, or to other literary and scientific vocations. The fellowships are given to young men who wish to follow systematically through the year the instructions of the teachers here engaged, and those who are appointed are expected to proceed to the degree of Doctor of Philosophy. The appointments are not made as rewards for good work already done, but as aids and incentives to good work in the future; in other words, the fellowships are not so much honors and prizes bestowed for past achievements, as helps to further progress and stepping-stones

to honorable intellectual careers. They are not offered to those who are definitely looking forward to the practice of any one of the three learned professions (though such persons are not formally excluded from the competition), but are bestowed almost exclusively on young men desirous of becoming teachers of science and literature, or proposing to devote their lives to special branches of learning which lie outside of the ordinary studies of the lawyer, the physician, and the minister. Appointments are rarely if ever made of graduates of more than five years' standing.

Each candidate is expected to submit his college diploma or other certificate of proficiency from the institution where he has been taught, with recommendations from those who are qualified to speak of his character and attainments. But this is only introductory. He must also submit, orally or in writing, such evidence of his past success in study and of his plans for the future, together with such examples of his literary or scientific work, as will enable the professors to judge of his fitness for the post. The examination, is, indeed, in a certain sense competitive; but not with uniform tests, nor by formal questions submitted to the candidates. First, the head of a given department considers, with such counsel as he may command, the applicant's record. The professors then collectively deliberate on the nominations made by individual members of their body. The list upon which they agree, with the reasons for it, is finally submitted by the President of the University to the Executive Committee, and by them to the Trustees for final registration and appointment. By all these precautions the highest results which were anticipated have been secured. A company of most promising students has been brought together, and their ability as teachers and scholars has been recognized by the calls they have received to permanent and desirable posts in various parts of the country.

The number of applications for fellowships has hitherto been very large, and it may have happened that some candidates have failed of appointment who were really superior to those selected. But, if so, this has resulted from the fact that a considerable number of applicants have each year forwarded to the University merely testimonials from their instructors, without any such examples of their own work as have been mentioned above; and, in consequence, the professors, from want of adequate knowledge have possibly passed over candidates who may have been in the highest degree meritorious.

The applicants are notified of the result by means of a printed list of the successful candidates.

The absence of candidates from Baltimore has been no bar to their appointment, in cases where adequate evidence of their claims has been presented; but it is obvious, from the nature of the case, that graduate students residing in Baltimore must have better opportunities than others of making known their powers to the appointing board, and during the last few years the number of persons appointed, who had not previously been resident here, is very small.

REGULATIONS.

1. The application must be made prior to May 1, in writing, addressed to the President of the University, and he will refer the papers to the Academic Council, by whom the nominations will be made to the Board of Trustees, at their meeting in June. There is no prescribed form of application.

2. The candidate must give evidence of a liberal education, such as the diploma of a college of good repute; of decided proclivity towards a special line of study, such as an example of some scientific or literary work already performed; and of upright character such as a testimonial from some instructor.

3. The value of each fellowship is five hundred dollars. The holder is not exempt from the charges for tuition. In case of resignation, promotion, or removal from the fellowship, payments will be made for the time during which the office shall have been actually held.

4. Every holder of a fellowship will be expected to perform such duties as may be allotted to him in connection with his course of study, to act when called upon as an examiner or as moderator in the examination room, to give all his influence for the promotion of

scholarship and good order, and in general to co-operate in upholding the efficiency of the University, as circumstances may suggest. He must reside in Baltimore during the academic year.

5. He will be expected to devote his time to the prosecution of special studies (not professional), under the direction of the head of the department to which he belongs, and before the close of the year to give evidence of progress by the preparation of a thesis, the completion of a research, the delivery of a lecture, or by some other method.

6. He may give instruction, with the approval of the President, by lectures or otherwise, to persons connected with the University, but he may not engage in teaching elsewhere.

7. He may be reappointed at the end of the year, but only for exceptional reasons.

8. Usually not more than two fellows will be appointed in any department of study.

9. As these fellowships are awarded as honors, those who are disposed, for the benefit of others, or for any other reason, to waive the pecuniary emolument, may do so, and still have their names retained on the honor list.

III. Adam T. Bruce Fellowship

This fellowship was founded in 1887 by the mother of Adam T. Bruce, Ph. D., late Fellow and Instructor in this University, as a memorial of her son, and is awarded annually. It is bestowed by the appointing board upon the candidate whom they consider most likely to promote biological science, and especially animal morphology, by original research. The stipend is the income of the Adam T. Bruce Fellowship endowment of ten thousand dollars. Preference is given to those who have already held fellowships in the Johns Hopkins University.

The electors consist of the President of the University, the chief instructor in animal morphology, the chief instructor in animal physiology, and a non-resident member annually chosen by the resident electors.

Regulations.

Candidates for the Bruce Fellowship must make application, in writing, to the President of the Johns Hopkins University before the first of May of the year of their candidature. They must forward to the President, at the same time, such evidence of their qualifications for appointment as they desire to be considered by the electors.

The electors may require any candidate to appear before them in person.

The Bruce Fellow shall devote his time to study and research in Biology at a place approved of by the President of the University, and he shall, during the month of February in the year of his tenure of the fellowship, send to the President a written statement of the scientific work accomplished by him since his appointment.

The tenure of the fellowship shall commence on the first of September in the year of appointment.

Two hundred and fifty dollars shall be paid to the Fellow on October 1, and the remainder at convenient intervals during the tenure of the fellowship.

The holder of the Bruce Fellowship shall not be more than thirty years of age at the date of his election.

The Bruce Fellow may be re-elected, but not oftener than twice.

The holder of the fellowship shall be exempt from charges for tuition.

The electors shall have the power to declare the fellowship vacant if its holder prove, in their opinion, unworthy; and no further stipend shall be paid to such person.

IV. William S. Rayner Fellowship

The Rayner Fellowship was founded by Mrs. Bertha Rayner Frank and Mr. Albert W. Rayner, of Baltimore, to perpetuate in this university the name of their father, Mr. William S. Rayner, who had made unusual attainments in the Hebrew language and was interested in the promotion of Semitic studies. The gift amounted to ten thousand dollars, and the income is available for a fellowship, which is bestowed annually by the Academic Council upon an advanced student in the department of Semitic Languages.

SCHOLARSHIPS

[Regulations approved by the Trustees April 3, 1899, on the recommendation of the Academic Council, the Board of University Studies, and the Board of Collegiate Advisers.]

I. University Scholarships

For the encouragement of scholarship among those who have taken the baccalaureate degree and wish to continue their studies here, a certain number of university scholarships are annually bestowed, as stated below:

1. A number, not exceeding five, are awarded at the opening of the academic year, by the Board of University Studies, to young men who completed their undergraduate course in this University at the close of the preceding session and received honors at Commencement.

2. Ten are open about the first of January to graduates of this or other institutions, who have been studying here during the previous part of the session. Those who wish to be candidates must address their applications to the President of the University, who will appoint a committee of five to consider the applications, and with the aid of such evidence as may be obtained, to make nominations to the Board of University Studies.

3. These scholarships entitle the holders to free tuition, and are tenable for one year. They do not carry exemption from laboratory fees.

4. They are awarded as honors, and those who are disposed, for the benefit of others or for any other reason, to waive the pecuniary emolument, or who are desirous of studying elsewhere, may do so and still have their names retained on the honor list. Those who receive the emolument will be expected to pursue their studies exclusively in this University.

5. The Board will reserve appointments, if worthy candidates do not offer.

II. Hopkins Scholarships

In the will of the founder of the University, his Trustees are requested to "establish, from time to time, such number of free scholarships in said University as may be judicious, and to distribute the said scholarships among such candidates from the States of Maryland, Virginia, and North Carolina, as may be most deserving of choice, because of their character and intellectual promise, and to educate the young men so chosen free of charge."

Forty-five such scholarships, entitling the holders to free tuition will be bestowed for the next academic year, —upon fifteen students from each of the three States named.

Students can be recognized as candidates only when actual residents of the State from which they desire to be appointed, during at least the year next preceding their enrolment in the University. If the appointing board is not sure as to the legal residence of any candidate, the point in question shall be determined by the Executive Committee of the Board of Trustees.

These scholarships are all bestowed for merit, and are tenable for the year subsequent to the appointment, the holders being re-eligible.

Successful candidates who are disposed, for the benefit of others or for any other reason, to waive the pecuniary emolument, may do so, and still have their names retained on the honor list. The scholarships may be forfeited because of frequent or prolonged absence, defective scholarship, or unworthy conduct.

Scholarships made vacant by resignation, by forfeiture, or by the non-appearance of worthy candidates at the regular times of selection, may be bestowed by the appointing board, at their discretion, upon other candidates who are found worthy, provided that the principles of this foundation are not departed from.

Holders of scholarships are not exempt from laboratory fees.

Hopkins Scholars from Maryland

These scholars are appointed by the Board of Collegiate Advisers, in accordance with the following regulations. No one will receive the honor whose standing as a whole is lower than "*good.*"

1. Five scholarships are open, at the beginning of the session, to those who have just completed their matriculation examination, and who stand best in a subsequent special examination in mathematics, Latin, and Greek (or French and German).

2. Five are awarded in June to those matriculated students whose records in the studies of the first year are most creditable. By "studies of the first year" is meant either the studies laid down for the first year in one of the regular groups, or such other studies, covering fifteen hours of class-room work weekly, as may be approved of by the Adviser.

3. Five are awarded for excellence in the studies of the second year, upon the same terms as in the case of the first year; provided that the candidate shall have absolved the studies of the first year as above defined.

Hopkins Scholars from North Carolina and Virginia

Fifteen Hopkins Scholarships are awarded by the Academic Council to students from Virginia, and fifteen to students from North Carolina, who have already received a creditable baccalaureate degree or its equivalent. In case the entire number of scholarships are not required for graduate students, those that remain may be awarded to undergraduates, in the order of their merit. Applications, in writing, should be filed at the President's office prior to June 1.

III. Washington Scholarships

The Trustees offer to residents of the District of Columbia two scholarships, yielding free tuition. These, like the Hopkins Scholarships, are awarded to undergraduate

students for merit, do not carry exemption from laboratory fees, and are tenable for one year, the holders being eligible for re-appointment.

IV. Woodyear Scholarships

These scholarships were founded in 1893 by Mrs. William E. Woodyear, of Baltimore, as a memorial of her husband. They are five in number—of the value of one hundred dollars each, and are awarded annually for exceptional merit among those who need pecuniary assistance. They are offered primarily to undergraduates.

V. Maryland Scholarships

The university offers to young men of Maryland needing pecuniary assistance twenty undergraduate scholarships,—in addition to the fifteen Hopkins Scholarships annually awarded to residents of Maryland.

These scholarships entitle the holders to free tuition, but do not carry exemption from laboratory fees. They are for the benefit of all parts of the State, and accordingly not more than one-half the number will be awarded to residents of the city and county of Baltimore, and not more than one-half to those who are now members of the University. The appointing board consists of the President of the Board of Trustees, the President of the University, and the Dean of the Collegiate Department. The usual entrance examinations must be passed by the candidates. Application must be made in accordance with a prescribed form.

PRIZES

The John Marshall Prize

This prize was established in 1891 by a lady living in New England. It consists of a bronze replica of a likeness of Chief Justice Marshall, and is awarded annually by the Academic Council to that graduate of the Johns Hopkins University who has made within the year the most valuable contribution to historical or political science.

The Henrico Medallion

This prize is the gift (made in 1902) of the Colonial Dames of America, Chapter I, and consists of a copper medallion bas-relief commemorating the foundation of a university at Henrico, in Virginia, in the year 1619. It is bestowed annually upon a graduate or student of the Johns Hopkins University, not more than ten years after his receiving the degree of Bachelor of Arts, as a recognition of work of special excellence in early American History.

The Tocqueville Medal

The Tocqueville gold medal is annually given to the Johns Hopkins University by the Baron Pierre de Coubertin, of Paris, and it is offered by the university to that student who shall have written the best essay on some subject illustrating any phase of French history, political or social, from 1815 to 1890, or a review of some important historical work published in France since 1890. The medal is given in honor of the illustrious Frenchman, Alexis de Tocqueville (1805-1859), author of the well-known historical and political studies, "Ancien Régime" and "Démocratie en Amérique."

The Sylvester Prize

The Sylvester Prize is the gift of several Baltimore gentlemen, and is offered to advanced students of mathematics as a reward for original research. It consists of a medallion likeness of Professor J. J. Sylvester, the first professor of mathematics in this university.

TUITION FEES AND EXPENSES

A

In the Philosophical Department

I. *Tuition Fees*

The charge for tuition is one hundred and fifty dollars per annum, payable at the Treasurer's office in semi-annual instalments, October 1 and February 1. There is no extra charge for instruction in any department of study, or for the use of the library and reading-room. A gymnasium fee of five dollars per annum is charged to every undergraduate during his residence in the University, and the money thus acquired is devoted to defraying the expenses of the University Athletic Association. Graduate students who use the gymnasium are also required to pay this fee. Fees are charged, as below stated, for registration, for material consumed in the laboratories, and for diplomas.

No deduction is made at the Treasurer's office because of absence for a period of less than half a year, or because a student gives only a part of his time to study, or because he belongs to but one class. Prompt payment of fees is required.

II. *Registration Fee and Caution Money*

Every student is required at entrance to pay a registration fee of five dollars and deposit ten dollars as caution money, the latter being repaid to him when he leaves the University, if there are no charges against him.

III. *Fees for Attendants on Single Courses*

Persons engaged in other pursuits—such as clergymen, lawyers, physicians, teachers—*who are not candidates for a degree*, are allowed to follow certain courses of lectures,

not exceeding five weekly, or to work in a scientific laboratory, at such times as may be arranged with the Director thereof, without attendance on lectures, on the payment, at entrance, of fifty dollars for the year, besides the registration fee and caution money. For a course of lectures not exceeding five weekly, with accompanying laboratory work, the fee is seventy-five dollars per annum, payable at entrance. Such persons are not regarded as members of the university, but are enrolled as "attendants upon lectures," and are entitled only to such privileges as they have paid for. Persons who desire to be so enrolled are required to make a special written application to the Registrar.

IV. *Laboratory Charges*

In Chemistry: For undergraduates and for graduates who take Chemistry as a subordiate subject, twenty-four dollars a year; for graduates and special students following Chemistry as their principal subject, thirty-six dollars a year. For a half-year, the fee is one-half of these amounts.

In Physics: For students who work two afternoons a week, twenty-four dollars a year; for those who take Physics as their principal subject, thirty-six dollars a year. For a half-year, the fee is one-half of these amounts.

In Biology: For students who work one afternoon a week, twelve dollars a year; for undergraduates and for graduates who take Zoology or Physiology as a subordinate subject, twenty-four dollars a year; for graduates and special students following a biological science as their principal subject, thirty-six dollars a year. For a half-year, the fee is one-half of these amounts.

In Geology: For graduates, ten dollars a year.

In all the laboratories, a charge is made for breakage and for apparatus not returned in good condition.

Fellows by Courtesy and others who have the privileges of guests in the various laboratories, are expected to pay the usual laboratory charges.

Doctors of Philosophy of this university who desire to remain for a time in the university after having received their diplomas, may do so without charge for tuition, but they are required to pay the usual laboratory charges.

Exception to the foregoing charges can be made only at the written request of the Director of a laboratory, approved by the President of the university.

V. *Graduation Fees*

The graduation fees are as follows, payable before the delivery of diplomas:

Doctor of Philosophy, ...	$10.00
Bachelor of Arts, ...	5.00

B

In the Medical Department

The charge for tuition is two hundred dollars per annum, payable in semi-annual instalments, October 1 and February 1. There are no extra charges for registration, for graduation, for instruction in any department, or for laboratory courses, except in special cases for materials consumed.

To a student who does not possess a microscope, there is an annual charge of five dollars for the use of one, with an additional charge of two dollars for the use of an oil-immersion lens. One dollar is charged for the rental of a dissecting microscope for one year. The student is responsible for damage to the microscope thus rented.

A deposit of ten dollars as caution money is required from each student at the time of his enrolment. The caution money is repaid to the student when he leaves, if there are no charges against him. Special charges are made for breakage and for damage to apparatus.

Payment of bills may be made at the office of the Registrar in the physiological building, which is open

from 9 a. m. to 5 p. m., or at the office of the Treasurer, on North Howard St., which is open from 9 a. m. to 4.15 p. m.

The fees required of graduates of medical colleges who desire to follow special courses in medicine are stated in detail in the annual catalogue of the medical department.

Living Expenses

The university has no dormitories or other living accommodations. The students may find comfortable homes in the vicinity, in boarding houses or with families. The price of board ranges from three dollars and a half a week upward, and rooms may be had for one dollar and a half a week and upward.

Lists of desirable places are kept by the Secretary of the university branch of the Young Men's Christian Association and by the Registrar of the medical department.

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