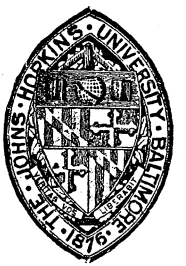
UNIVERSITY REGISTER

1919-1920

WITH ANNOUNCEMENTS FOR

1920-21



BALTIMORE
THE JOHNS HOPKINS PRESS
1920

CALENDAR, 1920-21

1920

September 28, Tuesday—Instruction begins.
October 5, Tuesday—College Courses for Teachers begin.
October 11, Monday—Evening Courses in Business Economics and for Technical Workers begin.
November 25, Thursday—Thanksgiving Day. All classes suspended.
December 15, Wednesday—Applications for University Scholarships, 1920-21 (for graduate students in residence).
December 24, Friday—Christmas Recess begins (morning).
December 25, Saturday—Christmas Day.

1921

January 3, Monday—Instruction resumed.
January 31–February 4, Monday–Friday—Undergraduate Examinations.
February 22, Tuesday—Commemoration Day. Public exercises at 11 a. m.; all classes suspended.
February 28, Monday—Applications for Fellowships and Scholarships, 1921-22 (for graduate students).
March 24, Thursday—Easter Recess begins (no classes).
March 31, Thursday—Instruction resumed.
May 20, Friday—Night Courses for Technical Workers close.
May 20, Friday—Business and Social Economics Courses close.
May 28, Saturday—College Courses for Teachers close.
May 31, Tuesday—Applications for "Maryland" Scholarships (for academic undergraduates in residence).
June 7, Tuesday—Undergraduate Examinations begin.
June 20–25, Monday–Saturday—Examinations of College Entrance Examination Board.
June 21, Tuesday—Conferring of Degrees (4 p. m.).
July 5, Monday—Summer Session opens.
August 12, Friday—Summer Session closes.
September 12–15, Monday–Thursday—Entrance Examinations.
September 16, Friday—Competitive Examination for Engineering Scholarships and for Hopkins Scholarships (for academic undergraduates from Maryland).
September 27, Monday—Instruction begins.

ENTRANCE EXAMINATIONS, 1920

Monday, September 13

9 a. m.–12 m.—Algebra
12 m.–1.30 p. m.—Solid Geometry
2–4 p. m.—English 1
4–6 p. m.—English 2

Tuesday, September 14

9–11 a. m.—Plane Geometry
11.30 a. m.–1 p. m.—Plane Trigonometry
2–6 p. m.—History

Wednesday, September 15

9–11 a. m.—Latin
11.30 a. m.–1 p. m.—Science.
2–4 p. m.—Latin

Thursday, September 16

9–11 a. m.—Greek, German, Spanish
11.30 a. m.–1 p. m.—Science
2–4 p. m.—Greek, French, Spanish

THE

JOHNS HOPKINS

UNIVERSITY CIRCULAR

New Series, 1920, No 4. MAY, 1920 Whole Number, 324

HISTORICAL STATEMENT

The Johns Hopkins University was founded by a merchant of Baltimore, Johns Hopkins (1795-1873), who bequeathed the greater part of his estate for the establishment of a university and a hospital. The University was incorporated August 24, 1867, the certificate of incorporation reading as follows:

CERTIFICATE OF INCORPORATION

Know all men by these presents, that we, Thomas M. Smith, William Hopkins, Lewis N. Hopkins, John W. Garrett, Alan P. Smith, John Fonerden, George W. Dobbin, George M. Gill, Andrew Sterett Ridgely, Thomas Donaldson, James A. L. McClure and Charles J. M. Gwinn, being citizens of the United States of America, and of the State of Maryland, and being desirous to form a corporation for the purpose of organizing a "University" for the promotion of education in the State of Maryland, do hereby declare and certify that we do, by this statement of writing, and by virtue of and under the provisions of an Act of the General Assembly of Maryland, passed at the January session thereof in the year eighteen hundred and sixty-seven, and being the Act of eighteen hundred and sixty-seven, chapter three hundred and seventy-nine, form a corporation, under the name of "The Johns Hopkins University," for the promotion of education in the State of Maryland, which shall be governed and controlled by twelve Trustees, who shall manage the concerns thereof, and which said twelve Trustees shall be Francis T. King, Lewis N. Hopkins, Thomas M. Smith, William Hopkins, John Fonerden,* John W. Garrett, Francis White, Charles J. M. Gwinn, Galloway Cheston, George W. Dobbin, Reverdy

* On the death of John Fonerden, James Carey Thomas was elected to fill the vacancy.

Johnson, junior, and George William Brown, and which said University shall be located in Baltimore County, in the State of Maryland.

Witness our hands and seals, set hereto on this twenty-fourth day of August, in the year eighteen hundred and sixty-seven.

THOMAS M. SMITH,	(Seal)
WILLIAM HOPKINS,	(Seal)
LEWIS N. HOPKINS,	(Seal)
JOHN W. GARRETT,	(Seal)
ALAN P. SMITH,	(Seal)
JOHN FONERDEN,	(Seal)
GEORGE W. DOBBIN,	(Seal)
GEORGE M. GILL,	(Seal)
ANDREW STERETT RIDGELY,	(Seal)
THOMAS DONALDSON,	(Seal)
JAMES A. L. MCCLURE,	(Seal)
CHARLES J. M. GWINN,	(Seal)

Witness: ALLEN E. FORRESTER.

The following amendments to the charter have been enacted by the State Legislature:

I

AN ACT to grant certain additional powers to "The Johns Hopkins University," a corporation incorporated under the General Laws of Maryland.

Section 1. Be it enacted by the General Assembly of Maryland, That "The Johns Hopkins University," a corporation duly incorporated by certificate recorded in the office of the Clerk of the Circuit Court for Baltimore County, shall have power to establish branches of the said University in the City of Baltimore, to hold, or to purchase and hold, all property in said City needed for the successful conducting of the branches of the said University in said City, and to keep and maintain a principal office in said City for the conduct of the business of the said University.

Section 2. And be it enacted, That the said "The Johns Hopkins University," shall have power to admit students of the said University, who shall merit the distinction, to the office and profession of Surgeon, or to the degree of Doctor of Medicine, or of Doctor of Laws, or of Bachelor or Master of Arts; to grant to students in said University such certificates of proficiency and attainments in any special study as the said University may see proper to confer; and to grant the honorary degrees of Doctor of Laws, Doctor of Medicine, and Master of Arts, or such other degrees as may be proper, to any person who may merit such distinction, whether such person be a student of said University or not.

Section 3. And be it enacted, That this Act shall take effect from its passage.

Approved March 22, 1876.

II

AN ACT to authorize the Trustees of the Johns Hopkins University, a corporation incorporated under the General Laws of Maryland, to make and constitute the President for the time being of the University and each of his successors in said office, during their respective terms thereof, a member ex-officio of the Board of Trustees of the Johns Hopkins University, in addition to the number of twelve Trustees of said University now authorized by law.

Section 1. Be it enacted by the General Assembly of Maryland, That the Trustees of the Johns Hopkins University, a corporation duly incorporated by certificate under the General Laws of Maryland, be and they are hereby authorized and empowered to make and constitute the President for the time being of the Johns Hopkins University and each of his successors in said office, during their respective terms thereof, a member ex-officio of said Board of Trustees in addition to the number of twelve Trustees of said University now authorized by law.

Section 2. And be it enacted that this Act shall take effect from the date of its passage.

Approved April 4, 1892.

As stated in the foregoing certificate, the corporate name of the institution is "The Johns Hopkins University."

The Board of Trustees organized June 13, 1870, and held their first business meeting February 6, 1874. The founder died December 24, 1873, in the seventy-ninth year of his age—having been born May 19, 1795. The election of a President of the University took place December 30, 1874, the choice falling upon Daniel Coit Gilman, at that time President of the University of California. President Gilman was inaugurated February 22, 1876, and instruction began October 3, following. The Johns Hopkins Hospital was dedicated May 7, 1889, and this paved the way for the opening of the medical school of the University four years later (October 1, 1893).

President Gilman resigned his office February 22, 1901, after a service of twenty-five years, and he was succeeded by Dr. Ira Remsen, Professor of Chemistry in the University, whose election took place June 3, 1901. On the twenty-first and twenty-second of February, 1902, the University celebrated the completion of twenty-five years of work, and President Remsen was inaugurated.

On the 10th of April, 1912, Dr. Remsen offered his resig-

nation of the office of President, and this was, with reluctance, accepted by the Board of Trustees. He consented, however, to discharge the duties of the office until his successor should be chosen; but it seemed to him best, in the middle of the following year, partly because of an ailment requiring a surgical operation, to request relief. The Trustees then appointed an Administrative Committee of the Faculty, to whom, for the time being, was entrusted the performance of the duties of the presidential office. The committee was composed of Professor William H. Welch, Chairman; Professors Joseph S. Ames, William B. Clark, Basil L. Gildersleeve, Edward H. Griffin, William H. Howell, and Westel W. Willoughby,—Dr. Griffin acting as Executive Secretary.

The third President of the University is Frank Johnson Goodnow, LL. D., who was elected by the Trustees February 22, 1914. Dr. Goodnow was a member of the Faculty of Columbia University from 1883 to 1914, and spent the year 1913-14 in China as constitutional adviser to the Chinese Government. He assumed his official duties as President October 1, 1914.

The work of the University began in two houses at the corner of Howard and Little Ross streets, in Hopkins Hall, and in a chemical laboratory on Little Ross street—the last two buildings having been erected by the Trustees. As the need arose, other buildings were constructed—including a considerable addition to the chemical laboratory, a biological laboratory, a physical laboratory, a gymnasium, a home for the Young Men's Christian Association (the gift of Mr. Eugene Levering), and finally McCoy Hall, a large central building containing offices of administration, assembly room, the general library, and numerous smaller rooms for seminaries, department libraries, classes in languages, history, etc. These buildings, excepting the chemical laboratory, were vacated in the summer of 1916. A fire destroyed McCoy and Levering Halls and the gymnasium on the evening of November 27, 1919. The medical school is housed in four buildings in another section of the city, adjacent to the Johns Hopkins

Hospital, with which it is closely associated in accordance with the expressed wish of the founder.

The Hospital occupies a commanding site facing North Broadway. The buildings include a central structure chiefly devoted to administration, large private wards, a considerable number of separate buildings containing the public wards, a large dispensary building, a surgical building and amphitheatre, a pathological institute, and a nurses' home. The Harriet Lane Home for Invalid Children, the Phipps Psychiatric Clinic, the Phipps Dispensary for the Treatment of Tuberculosis, and the Brady Urological Clinic are important adjuncts of the Hospital and are situated within its grounds.

In 1902 it was announced that a suburban site had been given to the University by Messrs. William Wyman, William Keyser, Francis M. Jencks, Julian LeRoy White, and William H. Buckler, of Baltimore, and Samuel Keyser, of New York. This site comprised originally one hundred and seventy-six acres of land within the city limits, about two miles directly north of the Washington Monument. Fifty-six acres have been deeded to the city for a public park. The hope was expressed by the donors that the sum of one million dollars would be contributed by the friends of the University within a certain time, to be added to the permanent endowment funds of the University. This hope was realized July 1, 1902. The development of the new site was begun and has continued as the necessary funds have been received. A general scheme of arrangement of the future buildings was adopted, as the result of a competition by selected architects. Laboratories for Botany and Plant Physiology and a greenhouse were first erected, and a fine athletic field was provided. A commodious academic building (Gilman Hall) and two engineering buildings were the next structures completed, the two latter with the funds hereinafter described. The removal to the new site was accomplished during the summer of 1916, and instruction, excepting that in graduate Chemistry, is now given at "Homewood." Gilman Hall contains the general library and

the non-laboratory departments, as well as the offices of administration. Plans for the physical and chemical laboratories are completed, and bids on the chemical laboratory have been invited and will be accepted when funds for its erection are available. Plans for the geological laboratory are progressing. Temporary quarters are provided for three of the laboratory subjects pending the erection of the respective laboratories. Zoology and Botany are housed in the basement of Gilman Hall; Physics occupies a portion of two floors in the Mechanical and Electrical Engineering Building; and Geology is quartered in the Civil Engineering Building.

The original endowment of the University amounted to somewhat over $3,000,000. This has been supplemented by a large number of gifts, including the Endowment Fund of 1902 ($1,000,000), the John W. McCoy Fund (($500,000), the Women's Medical School Fund ($100,000), the Mary Elizabeth Garrett Fund ($307,000), the Adoniram J. Robinson Fund ($42,000), the Herbert B. Adams Fund ($42,000), the Johnston Scholarship Fund ($90,000), the Caroline Donovan Fund ($100,000), the H. Willis Baxley Fund ($50,000), the Charles L. Marburg Fund ($50,000), the Herter Lectureship Fund ($25,000), the Beall Memorial Fund ($107,000), the George Huntington Williams Memorial Fund ($20,000), and the John Black Fund ($173,000), the Mary King Carey Fund ($182,000), the W. H. Collins Vickers Fund ($100,000), William H. Grafflin Fund ($275,000), the Mergenthaler Memorial Fund ($200,000), the Edward Revers Osler Fund ($32,000), the Edward Scott Linton Fund ($5,000), the Charles A. W. Vogeler Memorial Fund ($5,000).

The Endowment and Extension Fund of 1910 was started in June, 1909, when the General Education Board offered to contribute to the University the sum of $250,000 towards the endowment, provided the institution should secure, on or before December 31, 1910, a supplemental sum of $750,000 in cash or pledges. Under the terms of this offer one-half of

the million dollars thus acquired was to be added to the permanent endowment, the remainder to be used in the construction of buildings. A General Committee was organized in the summer of 1910, and, aided by an Alumni Committee, a Citizens' Committee, and a Ladies' Committee, secured by the end of the year pledges for $940,000, more than sufficient to meet the condition imposed by the General Education Board; of the total amount subscribed, $1,168,000 has so far been paid.

By Act of the Legislature of Maryland, at its session of 1912, the sum of $600,000 was appropriated for the purpose of constructing and equipping buildings for a school of technology as a department of the University, with an annual appropriation of $50,000 for maintenance. For this department there have been erected buildings for Civil, Mechanical and Electrical Engineering, and a power house from which are supplied heat, light, and power for all the University buildings at Homewood.

In July, 1914, the General Education Board deposited with the University securities valued at approximately $1,273,000, to establish the "William H. Welch Endowment for Clinical Education and Research." The purpose of this endowment is to aid in reorganizing clinical teaching in the departments of medicine, surgery, and pediatrics, so that the entire time of the teaching staff can be devoted to the work, precisely as in the departments teaching the underlying sciences. The placing of these clinical departments upon the full University basis constitutes one of the most important advances in the teaching of clinical medicine, and is expected to have far-reaching effects. In 1917 the Board voted an additional $350,000,—the income from $100,000 to be used for the extension of the full-time work in Pediatrics, the income from $250,000 for enlarging and broadening the usefulness of the laboratory departments.

The income-bearing funds have a "book value" of $7,112,566.01; the real estate and buildings, books, scientific

apparatus, and general equipment are valued at $4,277,548.32. The assets of the University have thus a total value of about $11,390,114.33.

The Legislature has granted an annual appropriation of $70,000 for general purposes for 1919 and for 1920; in return for which the University offers 129 scholarships to Maryland students in the Department of Engineering and assists the teachers of Maryland who may attend the Summer Courses.

BOARD OF TRUSTEES

1919-20

R. BRENT KEYSER, *President*
EUGENE LEVERING
THEODORE MARBURG
BLANCHARD RANDALL
HENRY D. HARLAN, *Secretary*
MILES WHITE, JR.
B. HOWELL GRISWOLD, JR.
JOHN GLENN, JR.
FREDERICK W. WOOD
DANIEL WILLARD
NEWTON D. BAKER

THE PRESIDENT OF THE UNIVERSITY, *ex officio*

COMMITTEES

Executive Committee

Blanchard Randall
Miles White, Jr.
B. Howell Griswold, Jr.

The President of the University, *ex officio*

Finance Committee

Miles White, Jr.
Eugene Levering
Blanchard Randall
B. Howell Griswold, Jr.
John Glenn, Jr.

Building Committee

Theodore Marburg
Henry D. Harlan
Frederick W. Wood

The President of the Board is *ex officio* a member of all committees.

TREASURER OF THE UNIVERSITY

W. Graham Boyce

ALUMNI COUNCIL

William S. Baer
G. Stewart Brown
Murray P. Brush
Rufus Cole
David T. Day
Richard H. Follis
Eli Frank
Fabian Franklin
John W. Griffin
Guy L. Hunner
George W. Knapp, *ex officio*
John H. Latané
Harry T. Marshall
L. Wardlaw Miles
J. Hall Pleasants
Albert C. Ritchie
St. George L. Sioussat

FACULTY*

FRANK JOHNSON GOODNOW, LL. D.,

President of the University.

A. B., Amherst College, 1879, and A. M., 1887; LL. B., Columbia University, 1882; LL. D., Amherst College, 1897, Columbia University, 1904, Harvard University, 1909, Brown University, 1914, Princeton University, 1917; Professor of Administrative Law, Columbia University, 1887-1914.

6 W. Madison St.

IRA REMSEN, M. D., PH. D., LL. D., *President Emeritus of the University and B. N. Baker Professor Emeritus of Chemistry.*

A. B., College of the City of New York, 1865; M. D., Columbia University (College of Physicians and Surgeons, N. Y.), 1867; Ph. D., University of Göttingen, 1870; LL. D., Columbia University, 1893, Princeton University, 1896, Yale University, 1901, University of Toronto, 1902, Harvard University, 1909, Pennsylvania College, 1910, University of Pittsburgh, 1915; D. C. L., University of the South, 1907; Professor of Chemistry in Williams College, 1872-76, and previously Assistant in Chemistry in the University of Tübingen; Foreign Member, Chemical Society of London; Honorary Member, Chemical Society of France; Secretary of the Academic Council, 1887-1901; Director of the Chemical Laboratory, 1876-1908; President of the National Academy of Sciences, 1907-13; Medalist of the Society of Chemical Industry, 1904, and President, 1909-10; Editor of the American Chemical Journal, 1879-1913; Professor of Chemistry, 1876-1913 (B. N. Baker Professor, 1904-1913); President of the University, 1901-1913.

214 W. Monument St.

BASIL LANNEAU GILDERSLEEVE, PH. D., LL. D., LITT. D., *Honorary Francis White Professor of Greek.*

A. B., Princeton University, 1849, and A. M., 1852; Ph. D., University of Göttingen, 1853; LL. D., College of William and Mary, 1869, Harvard University, 1886, University of Chicago, 1901, Yale University, 1901, University of Pennsylvania, 1911; D. C. L., University of the South, 1884; L. H. D., Princeton University, 1899; Hon. Litt. D. (Cantab.), Hon. Litt. D. (Oxon.), 1905; Professor of Greek in the University of Virginia, 1856-76; Professor of Latin in the University of Virginia, 1861-66; Hon. Member of the Cambridge Philological Society, of the Philological Syllogos of Constantinople, of the Archæological Society of Athens, and of the Society for the Promotion of Hellenic Studies; Corresponding Fellow of the British Academy, 1907; Member of the American Academy of Arts and Letters; Professor of Greek, 1876-1915 (Francis White Professor, 1904-15).

1002 N. Calvert St.

PAUL HAUPT, PH. D., LL. D., K. R. E., *W. W. Spence Professor of the Semitic Languages and Director of the Oriental Seminary.*

Gymnasium Augustum, Goerlitz; Ph. D., University of Leipzig, 1878; LL. D., University of Glasgow, 1902; Knight of the Royal Prussian Order of the Red Eagle, 1900; Privat-docent in the University of Göttingen, 1880-83, and Professor of Assyriology in the same, 1883-89; Honorary Curator of the Collection of Oriental Antiquities, United States National Museum, Washington, D. C., 1888-98; Honorary Curator of the Division of Historic Archaeology, United States National Museum, 1898-1905; Associate in Historic Archaeology, United States National Museum, 1905-; Associate of the Society of Oriental Research; Member of the Standing Committee of the International Congress of Orientalists; President of the Society of Biblical Literature and Exegesis, 1905-06; President of the American Oriental Society, 1913-14; President of the Johns Hopkins Philological Association, 1915-16; *Co-editor of the Assyriological Library and of the Contributions to Assyriology and Comparative Semitic Philology; Editor of the Sacred Books of the Old Testament; Member of the Academic Council.*

215 Longwood Rd., Roland Park.

* Arranged in the several groups in the order of their appointment.

WILLIAM HENRY WELCH, M. D., LL. D., *Director and Head of the Department of Bacteriology and Immunology, School of Hygiene and Public Health.*

A. B., Yale University, 1870; M. D., Columbia University (College of Physicians and Surgeons, N. Y.), 1875; M. D. (Hon.), University of Pennsylvania, 1894; LL. D., Western Reserve University, 1894, Yale University, 1896, Harvard University, 1900, University of Toronto, 1903, Columbia University, 1904, Jefferson Medical College, 1907, Princeton University, 1910, Washington University, 1915, and University of Chicago, 1916; Professor of Pathological Anatomy and General Pathology in the Bellevue Hospital Medical College, N. Y., 1879-84; Dean of the Medical Faculty, 1889-98; President of the National Academy of Sciences, 1913-1917; President of the Board of Directors of the Rockefeller Institute for Medical Research; President of the American Association for the Advancement of Science, 1906; President of the American Medical Association, 1910-1911; Member of the American Philosophical Society; Pathologist to the Johns Hopkins Hospital, and Baxley Professor of Pathology, 1884-1917; Colonel, Medical Section, Officers' Reserve Corps, U. S. A.

807 St. Paul St.

EDWARD HERRICK GRIFFIN, D. D., LL. D., *Professor Emeritus of the History of Philosophy.*

A. B., Williams College, 1862, and A. M., 1865; Union Theological Seminary, N. Y., 1867; D. D., Amherst College, 1880; LL. D., Princeton University, 1888, and Williams College, 1905; Professor of Latin in Williams College, 1872-81, Professor of Rhetoric, 1881-86, and Mark Hopkins Professor of Intellectual and Moral Philosophy, 1886-89; Executive Secretary, Administrative Committee of the Faculty, January 1913-June 1914; Secretary of the Academic Council, 1901-1915; Professor of the History of Philosophy and Dean of the College Faculty, 1889-1915.

827 Park Av.

*SIR WILLIAM OSLER, BART., M. D., LL. D., D. C. L., F. R. S., *Honorary Professor of the Principles and Practice of Medicine.*

M. D., McGill University, 1872; LL. D., McGill, 1895, Aberdeen, 1898, Toronto, 1899, Yale, 1901, Harvard, 1904, Johns Hopkins, 1905; D. C. L., Edinburgh, 1898, Trinity (Toronto), 1902; M. D. (Hon.), Oxford, 1905; D. Sc., Dublin, 1912; Fellow of the Royal Society of London; Fellow of the Royal College of Physicians, London; Professor of the Institutes of Medicine, McGill University, 1874-84; Professor of Clinical Medicine, University of Pennsylvania, 1884-89; Dean of the Medical Faculty, Johns Hopkins University, 1898-99, and Professor of the Principles and Practice of Medicine, 1889-1905; Physician-in-Chief, the Johns Hopkins Hospital, 1889-1905; Regius Professor of Medicine, University of Oxford, 1905-1919.

13 Norham Gardens, Oxford, England.

HENRY MILLS HURD, M. D., LL. D., *Professor Emeritus of Psychiatry.*

A. B., University of Michigan, 1863, M. D., 1866, A. M., 1870, and LL. D., 1895; Professor of Psychiatry, Johns Hopkins University, 1889-1906; Superintendent of the Eastern Michigan Hospital, 1878-89; Superintendent of the Johns Hopkins Hospital, 1889-1911; Editor of the Johns Hopkins Hospital Bulletin and of the Johns Hopkins Hospital Reports, 1889-1911; *Editor Emeritus of the American Journal of Insanity; Secretary, Board of Trustees of the Johns Hopkins Hospital.*

1023 St. Paul St.

HOWARD ATWOOD KELLY, M. D., LL. D., HON. F. R. C. S., *Professor Emeritus of Gynecology.*

A. B., University of Pennsylvania, 1877, and M. D., 1882; LL. D., University of Aberdeen and Washington and Lee University, 1906, University of Pennsylvania, 1907; Associate Professor of Obstetrics, University of Pennsylvania, 1888-89; Professor of Gynecology, Johns Hopkins University, 1889-1919; Honorary Member, Royal Medical Society of Edinburgh; Associate Foreign Member, Society of Obstetrics, Gynecology and Pediatrics, and Chirurgical Society, Paris; Corresponding Member, Obstetrical Society, Leipzig; Fellow, British Gynecological Society; Hon. Fellow, Edinburgh Obstetrical Society, Glasgow Obstetrical and Gynecological Society, Royal Academy of Medicine (Ireland); Hon. Member, Italian Society of Obstetrics and Gynecology, Rome; Gynecologist-in-Chief, Johns Hopkins Hospital, 1889-1919.

1418 Eutaw Place.

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* Died, December 29, 1919.

MAURICE BLOOMFIELD, PH. D., LL. D., L. H. D., *Professor of Sanskrit and Comparative Philology.*

A. M., Furman University, 1877; Fellow, Johns Hopkins University, 1878-79, and Ph. D., 1879; LL. D., Princeton University, 1896, Furman University, 1908: L. H. D., University of Chicago, 1916; Foreign Member, Royal Bohemian Society in Prague, 1896; Honorary Member, Finno-Ugrian Society, Helsingfors, 1898; Member of the International Committee for Congresses on the History of Religions, 1912; Member of the National Institute of Social Sciences, 1914; Fellow of the American Academy of Arts and Sciences, 1914; Hardy Prize of the Royal Bavarian Academy of Sciences in Munich, 1908; President of the American Oriental Society, 1910-11; Associate Editor, *American Journal of Philology; Member of the Academic Council.*

861 Park Av.

WILLIAM STEWART HALSTED, M. D., SC. D., LL. D., HON. F. R. C. S., *Professor of Surgery.*

A. B., Yale University, 1874; M. D., Columbia University (College of Physicians and Surgeons, N. Y.), 1877; LL. D., Yale University, 1904, and University of Edinburgh, 1905; Sc. D., Columbia University, 1904; Foreign Corresponding Member, Harveian Society, London; Honorary Fellow, Royal College of Surgeons, England, 1900, Edinburgh 1905, and College of Surgeons of America, 1913; Membre Corresp. Etranger de la Societé de Chirurgie, 1909; Membre Titulaire de l'Association Française de Chirurgie, 1914; Ehrenmitglied der Deutschen Gesellschaft für Chirurgie, 1914; Hon. Member Societas Medicorum Sverana, Stockholm, 1918; Foreign Member, Royal Swedish Academy of Science, 1918; Honorary Foreign Member, Royal Academy of Medicine of Belgium; Member of the National Academy of Sciences; *Surgeon-in-Chief, the Johns Hopkins Hospital.*

1201 Eutaw Place.

HARMON NORTHRUP MORSE, PH. D., LL. D., *Professor Emeritus of Inorganic and Analytical Chemistry.*

A. B., Amherst College, 1873, Instructor, 1875-76, LL. D., 1916; Ph. D., University of Göttingen, 1875; Member of the National Academy of Sciences; Foreign Member, Utrecht Society of Arts and Sciences; Fellow, American Academy of Arts and Sciences; Avogadro Medalist of the Turin Academy of Sciences, 1916; Johns Hopkins University (Fellow, 1876, Associate, 1876-83, Associate Professor, 1883-92, Professor, 1892-1916, Director, Chemical Laboratory, 1908-16).

Homewood Apartments

HENRY WOOD, PH. D., LL. D., K. R. E., *Professor of German.*

A. B., Haverford College, 1869; Ph. D., University of Leipzig, 1879; LL. D., Wake Forest College, 1914; President of the American Folk-Lore Society, 1898: Knight of the Royal Prussian Order of the Red Eagle, 1910; *Member of the Academic Council.*

109 W. North Av.

JOHN JACOB ABEL, M. D., SC. D., *Professor of Pharmacology.*

Ph. B., University of Michigan, 1883, A. M. (Hon.), 1903, and Sc. D., 1912; M. D., University of Strassburg, 1888; Sc. D., University of Pittsburgh, 1915; Lecturer and Professor of Materia Medica and Therapeutics, University of Michigan, 1890-93; Hon. Member, Philadelphia College of Pharmacy; Corresponding Member, K. K. Gesellschaft der Aerzte, Vienna; Member of the National Academy of Sciences; *Editor of the Journal of Pharmacology and Experimental Therapeutics.*

Windsor Mill Rd., Woodlawn.

WILLIAM HENRY HOWELL, PH. D., M. D., SC. D., LL. D., *Professor of Physiology; Assistant Director, School of Hygiene and Public Health.*

A. B., Johns Hopkins University, 1881, Fellow, 1882-84, and Ph. D., 1884; LL. D., Trinity College (Conn.), 1901; Sc. D., Yale University, 1911; M. D. (Hon.), University of Michigan, 1890, LL. D., 1912; LL. D., Washington University, 1915; Assistant in Biology, 1884-85, Associate, 1885-88, and Associate Professor, 1888-89; Lecturer and Professor of Physiology and Histology, University of Michigan, 1889-92; Associate Professor of Physiology, Harvard University, 1892-93; Member of the National Academy of Sciences and of the American Philosophical Society; Dean of the Medical Faculty, 1899-1911.

232 W. Lanvale St.

JAMES WILSON BRIGHT, PH. D., LL. D., LITT. D., *Caroline Donovan Professor of English Literature.*

A. B., Lafayette College, 1877; Fellow, Johns Hopkins University, 1880-82, and Ph. D., 1882; LL. D., Wake Forest College, 1907; Litt. D., Lafayette College, 1907; Hon. Secretary for America (South and West) of the Early English Text Society; *Member of the Advisory Board of Modern Philology, and of the Editorial Committee of the Modern Language Association of America; Editor in Chief, Modern Language Notes; Member of the Academic Council.*

218 W. Madison St.

HERBERT EVELETH GREENE, PH. D., *Collegiate Professor of English.*

A. B., Harvard University, 1881, A. M., 1884, and Ph. D., 1888; Professor of English in Wells College, 1891-93.

1019 St. Paul St.

LORRAIN SHERMAN HULBURT, PH. D., *Collegiate Professor of Mathematics.*

A. B., University of Wisconsin, 1883, and A. M., 1888; Professor of Mathematics, University of South Dakota, 1887-91; Fellow, Clark University, 1891-92; Ph. D., Johns Hopkins University, 1894.

Homewood Apartments.

JOSEPH SWEETMAN AMES, PH. D., LL. D., *Professor of Physics and Director of the Physical Laboratory.*

A. B., Johns Hopkins University, 1886, Fellow, 1887-88, and Ph. D., 1890; LL. D., Washington College, 1907; Honorary Member of the Royal Institution of Great Britain; Member of the French Physical Society; Member of the National Academy of Sciences; Fellow of the American Academy of Arts and Sciences; Vice-President, American Physical Society; Member, National Advisory Committee for Aeronautics; Member, National Council of Research; *Assistant Editor of the Astrophysical Journal; Associate Editor of the American Journal of Science; Secretary of the Academic Council.*

Charlcote Place, Guilford.

JOHN WHITRIDGE WILLIAMS, M. D., SC. D., LL. D., *Professor of Obstetrics and Dean of the Medical Faculty.*

A. B., Johns Hopkins University, 1886; M. D., University of Maryland, 1888, and Sc. D. (Hon.), 1907; Sc. D., University of Dublin, 1912; LL. D., University of Pittsburgh, 1915; Associate in Obstetrics, Johns Hopkins University, 1893-96, and Associate Professor, 1896-99; *Obstetrician-in-Chief to the Johns Hopkins Hospital.*

1128 Cathedral St.

FRANK MORLEY, SC. D., *Professor of Mathematics.*

A. B., University of Cambridge, 1883, A. M., 1886, and Sc. D., 1898; Professor in Haverford College, 1888-1900; *Co-Editor of the Bulletin of the American Mathematical Society; Editor of the American Journal of Mathematics.*

2026 Park Av.

WILLIAM JULIAN ALBERT BLISS, PH. D., *Collegiate Professor of Physics.*

A. B., Harvard University, 1888; Ph. D., Johns Hopkins University, 1894.

1017 St. Paul St.

HARRY FIELDING REID, PH. D., *Professor of Dynamic Geology and Geography.*

A. B., Johns Hopkins University, 1880, Fellow, 1882, and Ph. D., 1885; Professor of Mathematics, 1886-89, and of Physics, 1889-94, Case School of Applied Science; Associate Professor of Physical Geology, University of Chicago, 1895-97; Member of the National Academy of Sciences; Member, National Council of Research.

608 Cathedral St.

ROBERT WILLIAMS WOOD, A. B., LL. D., F. R. S., *Professor of Experimental Physics.*

A. B., Harvard University, 1891; LL. D., Clark University, 1909, and University of Birmingham, 1913; Honorary Fellow in Chemistry, University of Chicago, 1892-94; Fellow of the London Physical Society; Hon. Fellow of the Royal Microscopical Society, London; Corr. Member, Royal Society of Sciences, Göttingen; Hon. Member, Optical Society of London; Foreign Member, Royal Society of London; Instructor and Assistant Professor of Physics in the University of Wisconsin, 1897-1901; Rumford Medalist, American Academy of Arts and Sciences, 1909; Member of the National Academy of Sciences; Fellow of the American Academy of Arts and Sciences; Honorary Corresponding Member, British Association.

1011 St. Paul St.

JACOB H. HOLLANDER, PH. D., *Professor of Political Economy.*

A. B., Johns Hopkins University, 1891, Fellow, 1893-94, and Ph. D., 1894; Treasurer of the Island of Porto Rico, 1900-01; Special Commissioner Plenipotentiary to Santo Domingo, 1905-06; Financial Adviser of the Dominican Republic, 1908-10; *Member of the Academic Council.*

1802 Eutaw Place.

EDWARD BENNETT MATHEWS, PH. D., *Professor of Mineralogy and Petrography.*

A. B., Colby University, 1891; Fellow, Johns Hopkins University, 1893-94, and Ph. D., 1894; *Executive Officer and Member of the Maryland State Forestry Commission; Director of the Maryland State Weather Service; State Geologist of Maryland.*

1410 Linden Av.

LEWELLYS FRANKLIN BARKER, M. D., LL. D., *Professor of Clinical Medicine.*

M. B., University of Toronto, 1890, and M. D. (Hon.), 1905; LL. D., Queen's University, 1908, and McGill University, 1911; Assistant Physician, Assistant Resident Pathologist, Resident Pathologist, and Physician-in-Chief, the Johns Hopkins Hospital, 1891-1900, 1905-1914; Fellow in Pathology, the Johns Hopkins University, 1892-94, Associate in Anatomy, 1894-97, Associate Professor of Anatomy, 1897-99, Associate Professor of Pathology, 1899-1900, and Professor of Medicine, 1905-1914; Professor and Head of the Department of Anatomy, University of Chicago, 1900-1904, and Professor of Medicine, Rush Medical College, 1904-05; *Visiting Physician, the Johns Hopkins Hospital.*

208 Stratford Rd., Guilford.

WILLIAM SIDNEY THAYER, M. D., LL. D., HON. F. R. C. P. I., *Professor of Medicine.*

A. B., Harvard University, 1885, and M. D., 1889; LL. D., Washington College, 1907; Honorary Fellow, Royal College of Physicians of Ireland, 1912; Membre associé étranger de l'Academie de medicine, Paris, 1918; Membre correspondant étranger, *honoris causa,* de la Société des hôpitaux de Paris, 1918; Fellow of the Royal Society of Medicine, London, 1909; Honorary Member of the Therapeutical Society of Moscow, 1897; Corresponding Member of the Gesellschaft für innere Medizin und Kinderheilkunde in Wien; Honorary Member of the Royal Society of Medicine of Budapest, 1909; Membre correspondant étranger de la Société medicale des hôpitaux, Lyon, 1900; *Physician-in-Chief, the Johns Hopkins Hospital.*

406 Cathedral St.

JOHN MARTIN VINCENT, PH. D., LL. D., *Professor of European History.*

A. B., Oberlin College, 1883, and A. M., 1888; Ph. D., Johns Hopkins University, 1890; LL. D., Illinois College, 1904, and Oberlin College, 1908; Honorary *Docteur en Droit,* University of Geneva, 1909; Corresponding Member of the *Institut National Genevois* and of the Sociological Society of London; Foreign Member, Japanese Academy of Social Science, Tokyo.

313 Forest Road, Roland Park.

WESTEL WOODBURY WILLOUGHBY, PH. D., *Professor of Political Science.*

A. B., Johns Hopkins University, 1888, Fellow, 1890-91, and Ph. D., 1891; President, American Political Science Association, 1913; *Managing Editor of the American Political Science Review; Member of the Academic Council.*

Greenway Apartments.

DUNCAN STARR JOHNSON, PH. D., *Professor of Botany and Director of the Botanical Laboratory and the Botanical Garden.*

A. B., Wesleyan University, 1892; Fellow, Johns Hopkins University, 1896-97, Ph. D., 1897, and Bruce Fellow, 1897-98.

23 Merrymount Road, Roland Park.

HERMANN COLLITZ, PH. D., L. H. D., *Professor of Germanic Philology.*

Gymnasium Johanneum, Lüneberg, 1875; Ph. D., University of Göttingen, 1879; L. H. D., University of Chicago, 1916; Assistant Librarian and Privatdocent, University of Halle, 1883-86; Associate Professor and Professor of Comparative Philology and German, Bryn Mawr College, 1886-1907; Editor of *Hesperia;* Associate Editor, *American Journal of Philology.*

1027 N. Calvert St.

HERBERT SPENCER JENNINGS, PH. D., S. D., LL. D., *Henry Walters Professor of Zoölogy and Director of the Zoölogical Laboratory.*

S. B., University of Michigan, 1893; A. M., Harvard University, 1895, and Ph. D., 1896; LL. D., Clark University, 1909; S. D., University of Michigan, 1918; Assistant Professor, University of Michigan, 1900-03, and University of Pennsylvania, 1903-06; Honorary Fellow, Royal Microscopical Society of London; Member of the National Academy of Sciences; Fellow of the American Academy of Arts and Sciences; *Associate Editor of Genetics, of Psychobiology, and of Journal of Experimental Zoölogy; Member of the Academic Council.*

505 Hawthorn Rd., Roland Park.

WILFRED PIRT MUSTARD, PH. D., *Professor of Latin.*

A. B., University of Toronto, 1886, A. M., 1890, and Fellow, University College, 1886-89; Fellow, Johns Hopkins University, 1890-91, and Ph. D., 1891; Professor of Latin in Colorado College, 1891-93; Instructor in Haverford College, 1893-94, and Professor of Latin, 1894-1907; Collegiate Professor of Latin, Johns Hopkins University, 1907-19; Associate Editor, *American Journal of Philology.*

18 W. Hamilton St.

EDWARD FRANKLIN BUCHNER, PH. D., *Professor of Education; Director of the Summer Courses and the College Courses for Teachers.*

A. B., Leander Clark College, 1889, and A. M., 1892; Ph. D., Yale University, 1893, Lecturer and Instructor in Philosophy and Pedagogy, 1892-97; Professor of Analytical Psychology, New York University, 1896-1901; Docent, Clark University, 1901-03; Professor of Philosophy and Education, University of Alabama, 1903-08.

2120 Callow Av.

JOHN BROADUS WATSON, PH. D., LL. D., *Professor of Experimental and Comparative Psychology and Director of the Psychological Laboratory.*

A. M., Furman University, 1899, and LL. D., 1919; University of Chicago (Fellow, 1901-03, Ph. D., 1902, Assistant, Instructor and Assistant Professor of Experimental and Comparative Psychology, 1904-08); General Secretary, International Congress of Psychology; President, American Psychological Association, 1914; *Editor, The Psychological Review; Joint Editor, Journal of Animal Behavior; Editor, Behavior Monographs.*

Calvert Court Apts.

ETHAN ALLEN ANDREWS, PH. D., *Professor of Zoölogy.*

Ph. B., Yale University, 1881; Fellow, Johns Hopkins University, 1884-86, and Ph. D., 1887.

Lake and Bellona Avs.

WALTER JONES, PH. D., *Professor of Physiological Chemistry.*

A. B., Johns Hopkins University, 1888, and Ph. D., 1891; Professor of Natural Sciences, Wittenberg College, 1891-92; Professor of Analytical Chemistry, Purdue University, 1892-95; Member of the National Academy of Sciences.

2621 St. Paul St.

ADOLF MEYER, M. D., LL. D., *Professor of Psychiatry.*

Zürich Gymnasium, 1885; M. D., University of Zürich, 1892; LL. D., University of Glasgow, 1901, and Clark University, 1909; Honorary Fellow and Docent in Neurology, University of Chicago, 1892-95; Pathologist and Director of Clinical Laboratory, Worcester (Mass.) Hospital for the Insane, and Docent in Psychiatry, Clark University, 1895-1902; Director of the Pathological (Psychiatric) Institute, New York State Hospitals, Ward's Island, 1902-10; Professor of Psycho-Pathology, Cornell University, 1904-1909; *Psychiatrist-in-Chief to the Johns Hopkins Hospital.*

9 Rugby Rd., Guilford.

BURTON EDWARD LIVINGSTON, PH. D., *Professor of Plant Physiology and Director of the Laboratory of Plant Physiology.*

S. B., University of Michigan, 1898; Fellow, University of Chicago, 1899-1902, Ph. D., 1902, Assistant in Plant Physiology, 1902-04, and Associate, 1905; Collaborator, U. S. Bureau of Forestry, 1902; Research Fellow, New York Botanical Garden, 1903; Walker Prizeman, Boston Society of Natural History, 1904; Soil Expert, in charge of the Division of Fertility, U. S. Bureau of Soils, 1904-05; Staff Member, Department of Botanical Research, Carnegie Institution of Washington, 1906-09.

3012 Barclay St.

MCKENDREE LLEWELLYN RANEY, PH. D., *Librarian.*

A. B., Centre College, 1897; Fellow, Johns Hopkins University, 1901-03, and Ph. D., 1904.

4117 Penhurst Av., W. Arlington.

ARTHUR ONCKEN LOVEJOY, A. M., *Professor of Philosophy.*

A. B., University of California, 1895; A. M., Harvard University, 1897; Assistant Professor and Associate Professor in Leland Stanford Junior University, 1899-1901; Professor of Philosophy in Washington University, 1901-08, and in the University of Missouri, 1908-10; President, American Association of University Professors, 1919; *Member of the Academic Council.*

827 Park Av.

JOHN BOSWELL WHITEHEAD, PH. D., *Professor of Electrical Engineering and Dean of the Faculty of Engineering.*

Proficient in Applied Electricity, Johns Hopkins University, 1893, A. B., 1898, and Ph. D., 1902; Fellow, American Institute of Electrical Engineers.

19 W. Cold Spring Lane, Guilford.

CHARLES KEPHART SWARTZ, PH. D., *Collegiate Professor of Geology.*

A. B., Johns Hopkins University, 1888, Fellow, 1903-04, and Ph. D., 1904.

Windsor Mill Road and 17th St.

GEORGE ERNEST BARNETT, PH. D., *Professor of Statistics.*

A. B., Randolph-Macon College, 1891; Fellow, Johns Hopkins University, 1899-1900, and Ph. D., 1901.

827 Park Av.

JOHN MILLER TURPIN FINNEY, M. D., *Professor of Clinical Surgery.*

A. B., Princeton University, 1884; M. D., Harvard University, 1888; Surgeon to the Union Protestant Infirmary; Associate and Associate Professor of Surgery, Johns Hopkins University, 1893-1912; Associate in Surgery, the Johns Hopkins Hospital, 1891-1912, and Associate Surgeon, 1912-14; *Visiting Surgeon, the Johns Hopkins Hospital.*

1300 Eutaw Place.

DAVID MOORE ROBINSON, PH. D., LL. D., *W. H. Collins Vickers Professor of Archæology and Lecturer on Greek Literature.*

A. B., University of Chicago, 1898, Fellow in Greek, 1899-1901, and Ph. D., 1904; LL. D., Jamestown College (N. D.), 1915; Assistant Professor of Greek, Illinois College, 1904-05; American School of Classical Studies, Athens (Fellow, 1902-03, Acting Director and Professor of the Greek Language and Literature, 1909-10); Archæological Institute of America (Recorder, 1913, and Vice-President, 1914—); President, College Art Association of America, 1919—; President, Classical Association of the Atlantic States, 1920; Associate Editor, *Classical Weekly;* Editor, *Art and Archaeology;* Editor-in-Chief, *The Art Bulletin;* Associate Editor, *American Journal of Philology;* Chairman, Advisory Council, American School of Classical Studies in Rome, 1920.

106 Ridgewood Rd., Roland Park.

JOHN HOWLAND, M. D., *Professor of Pediatrics.*

A. B., Yale University, 1894, and A. M. (Hon.), 1914; M. D., New York University, 1897, and Cornell University, 1899; House Officer, Presbyterian Hospital, N. Y., 1897-99, and N. Y. Foundling Hospital, 1899-1900; Pathologist and Assistant Attending Pediatrician, N. Y. Foundling Hospital, 1902-11; Pediatrician in charge of Children's Clinic, Bellevue Hospital, 1909-11; late Instructor and Associate in Pediatrics, Columbia University; Professor of Pediatrics, Washington University, St. Louis, 1911-12; Editor, American Journal Diseases of Children; Member of Council of Pharmacy and Chemistry, A. M. A.; Consulting Pediatrician, City Hospital, Bay View; *Director of the Harriet Lane Home and Pediatrician-in-Chief, Johns Hopkins Hospital.*

Oak Place and Charles St., Guilford.

CARL CLAPP THOMAS, M. E., *Professor of Mechanical Engineering.*

M. E., Cornell University, 1895; Professor of Marine Engineering and Naval Architecture, New York University, 1901-03; Professor of Marine Engineering, Cornell University, 1904-08; Professor of Steam and Gas Engineering, University of Wisconsin, 1908-13; Member, American Society of Mechanical Engineers, American Society of Naval Architects and Marine Engineers, and American Gas Institute.

3440 Auchentoroly Terr.

WARREN HARMON LEWIS, M. D., *Professor of Physiological Anatomy.*

S. B., University of Michigan, 1894, and Assistant in Zoölogy, 1895-96; M. D., Johns Hopkins University, 1900; *Co-Editor of the Anatomical Record.*

500 Hawthorn Rd., Roland Park.

JOSEPH ELLIOTT GILPIN, PH. D., *Collegiate Professor of Chemistry.*

A. B., Johns Hopkins University, 1889, and Ph. D., 1892; *Secretary of the Board of Collegiate Studies.*

Stony Run Lane, near University Parkway.

JOHN HOLLADAY LATANÉ, PH. D., LL. D., *Professor of American History and Dean of the College Faculty.*

A. B., Johns Hopkins University, 1892, and Ph. D., 1895; LL. D., University of Alabama, 1913; Albert Shaw Lecturer, 1898; Professor of History and Economics, Randolph-Macon Woman's College, 1898-1902; Professor of History, Washington and Lee University, 1902-1913; *Member of the Academic Council.*

1016 N. Calvert St.

CHARLES WILLIAM EMIL MILLER, PH. D., *Professor of Greek.*

A. B., Johns Hopkins University, 1882, Fellow, 1883-85, and Ph. D., 1886; *Secretary of the Board of University Studies; Managing Editor, American Journal of Philology.*

3017 St. Paul St.

KNIGHT DUNLAP, PH. D., *Professor of Experimental Psychology.*

Ph. B., University of California, 1899, M. L., 1901, Le Conte Fellow, 1900-01, Assistant and Instructor, 1902-06; Walker Fellow, Harvard University, 1901-02, A. M., 1902, and Ph. D., 1903; *Editor of Psychobiology and of Psychology Classics.*

500 W. Thirty-Third St.

JOSEPH CHRISTIE WHITNEY FRAZER, PH. D., *Professor of Analytical Chemistry.*

S. B., Kentucky State College, 1897, and M. S., 1898; Fellow, Johns Hopkins University, 1900-01, and Ph. D., 1901; Foreign Member, Utrecht Society of Arts and Sciences; *Member of the Academic Council.*

2611 N. Charles St.

E. EMMET REID, PH. D., LL. D., *Professor of Organic Chemistry.*

A. M., Richmond College, 1894; Fellow, Johns Hopkins University, 1897-98, Ph. D., 1898, Johnston Scholar, 1909-11; Professor of Chemistry, Charleston College, 1898-1901, and Baylor University, 1901-08; LL. D., Richmond College, 1917.

203 E. 33d St.

WILLIAM GEORGE MACCALLUM, M. D., *Baxley Professor of Pathology.*

A. B., University of Toronto, 1894; M. D., Johns Hopkins University, 1897; Resident House Officer, Resident Bacteriologist and Assistant Resident and Resident Pathologist, 1897-1909; Associate Professor of Pathology, 1900-08; Professor of Pathological Physiology and Lecturer in Forensic Medicine, 1908-09; Visiting Pathologist, Presbyterian Hospital, and Professor of Pathology, Columbia University, 1908-17; *Pathologist-in-Chief, Johns Hopkins Hospital.*

615 St. Paul St.

FLORENCE RENA SABIN, M. D., SC. D., *Professor of Histology.*

S. B., Smith College, 1893, Sc. D., 1910, and Assistant in Zoölogy, 1895-96; M. D., Johns Hopkins University, 1900; *Co-Editor of the Anatomical Record.*

1325 Park Av.

EDWARD WILBER BERRY, *Professor of Paleontology.*

3508 Park Heights Av.

ELMER VERNER MCCOLLUM, PH. D., *Professor of Bio-Chemistry, School of Hygiene and Public Health.*

A. B., University of Kansas, 1903, and A. M., 1904; Loomis Fellow, Yale University, 1905-06, and Ph. D., 1906; Instructor, Assistant Professor, Associate Professor, and Professor of Agricultural Chemistry, University of Wisconsin, 1907-17; Cutter Lecturer on Hygiene and Preventive Medicine, Harvard University, 1917-18; Member, National Academy of Sciences; *Associate Editor, Journal of Biological Chemistry* and *Journal of Dental Research.*

Talbot Rd., Windsor Hills.

RAYMOND PEARL, PH. D., SC. D., LL. D., *Professor of Biometry and Vital Statistics, School of Hygiene and Public Health.*

A. B., Dartmouth College, 1899; Ph. D., University of Michigan, 1902; Sc. D., Dartmouth College, 1919; LL. D., University of Maine, 1919; Instructor in Zoölogy, University of Michigan, 1902-1906, and University of Pennsylvania, 1906-07; Biologist of the Maine Agricultural Experiment Station, 1907-17; Chief of the Statistical Division of the United States Food Administration, 1917-19; Member of the National Academy of Sciences and of the American Philosophical Society; Fellow of the American Academy of Arts and Sciences; *Associate Editor of Genetics, of the Journal of Experimental Zoölogy, and of the Publications of the American Statistical Association; Chairman of the Editorial Board of the Proceedings of the National Academy of Sciences.*

401 Hawthorn Rd., Roland Park.

SAMUEL OTTMAR MAST, PH. D., *Professor of Zoölogy.*

S. B., University of Michigan, 1899; Ph. D., Harvard University, 1906; Instructor and Professor of Biology, Hope College, Mich., 1899-1908; Johnston Scholar, Johns Hopkins University, 1907-08; Cartwright Prizeman, College of Physicians and Surgeons, Columbia University, 1909; Associate Professor of Biology and Professor of Botany, Goucher College, 1908-11.

415 Woodlawn Rd., Roland Park.

GILBERT CHINARD, L. ÈS L., *Professor of French.*

B. ès L., University of Poitiers, 1899; L. ès L., University of Bordeaux, 1902; Professor of French, University of California, 1912-19.

1925 E. 31st St.

THOMAS STEPHEN CULLEN, M. D., *Professor of Clinical Gynecology.*

M. B., University of Toronto, 1890; Assistant Resident, Resident and Associate in Gynecology, the Johns Hopkins Hospital, 1892-1914; Instructor, Associate and Associate Professor of Gynecology, Johns Hopkins University, 1895-1919; *Visiting Gynecologist.*

20 E. Eager St.

TENNEY FRANK, PH. D., *Professor of Latin.*

A. B., University of Kansas, 1898, and A. M., 1899; Fellow, University of Chicago, 1899-1901, Assistant and Associate, 1901-04, and Ph. D., 1903; Visiting Professor, American Academy in Rome, 1916-17; Associate and Professor of Latin, Bryn Mawr College, 1904-10; *Associate Editor, American Journal of Philology.*

Greenway Apts.

HENRY CARRINGTON LANCASTER, PH. D., *Professor of French Literature.*

A. B. and A. M., University of Virginia, 1903; Fellow, Johns Hopkins University, 1906-07, and Ph. D., 1907; A. M. (Hon.), Amherst College, 1912; Professor of Romance Languages, Amherst College, 1907-19; *Co-Editor of Modern Language Notes and of the Publications of the Modern Language Association of America.*

604 Edgevale Rd., Roland Park.

LEWIS HILL WEED, M. D., *Professor of Anatomy.*

A. B., Yale University, 1908, and A. M., 1909; M. D., Johns Hopkins University, 1912; Instructor, Associate and Associate Professor of Anatomy, 1914-19; in charge of the Laboratory of Surgical Research, Harvard University, 1912-13, and Cabot Fellow, 1913-14.

The Latrobe.

OLIN OGLESBY ELLIS, CAPTAIN, INFANTRY, U. S. ARMY, *Collegiate Professor of Military Science and Tactics.*

United States Military Academy, 1908; A. E. F., General Staff College, 1918.

84 Roland Av.

SIR ARTHUR NEWSHOLME, M. D., K. C. B., *Resident Lecturer in Public Health Administration, School of Hygiene and Public Health.*

Knight Commander of the Bath; M. D., University of London, 1881, and Certificate Public Health, 1885; Medical Officer of Health, Clapham, 1885-88, and Brighton, 1889-1907; Milroy Lecturer, Royal College of Physicians, 1895; Fellow, Royal College of Physicians, 1898; Principal Medical Officer, Local Government Board of England, 1908-19; President, Society of Medical Officers of Health, 1900-01; President, Epidemiological Society, 1907-08; Member of Royal Commission on Venereal Diseases, of Army Sanitary Committee, and of Interdepartmental Committees on Tuberculosis and on Dental Registration; Lieut.-Col., R. A. M. C. (T); Member of Council of Imperial Cancer Fund; Crown Nominee, General Medical Council, 1909-19.

The Altamont.

WADE HAMPTON FROST, M. D., *Resident Lecturer in Epidemiology, School of Hygiene and Public Health.*

A. B., University of Virginia, 1901, and M. D., 1903; Assistant Surgeon and Surgeon, United States Public Health Service, 1905-19; Director, Bureau of Sanitary Service, American Red Cross, 1917.

113 W. Lanvale St.

WILLIAM DAVID BOOKER, M. D., *Clinical Professor Emeritus of Pediatrics.*

M. D., University of Virginia, 1867; Associate in Pediatrics, the Johns Hopkins Hospital and Dispensary, 1889-1909.

208 W. Monument St.

SAMUEL THEOBALD, M. D., *Clinical Professor of Ophthalmology.*

M. D., University of Maryland, 1867; *Visiting Ophthalmologist.*

968 N. Howard St.

HENRY M. THOMAS, A. M., M. D., *Clinical Professor of Neurology.*

M. D., University of Maryland, 1884; A. M. (Hon.), Johns Hopkins University, 1902; *Visiting Neurologist.*

1228 Madison Av.

JERE WILLIAMS LORD, M. D., *Clinical Professor of Dermatology.*

A. B., Johns Hopkins University, 1884; M. D., University of Pennsylvania, 1887; *Visiting Dermatologist.*

1011 N. Charles St.

THOMAS CASPAR GILCHRIST, M. D., M. R. C. S., *Clinical Professor of Dermatology.*

M. R. C. S., and L. S. A., London, 1887; M. D. (Hon.), University of Maryland, 1907; *Visiting Dermatologist.*

107 St. John's Rd., Roland Park.

HENRY JOHNS BERKLEY, M. D., D. SC., *Clinical Professor Emeritus of Psychiatry.*

M. D., University of Maryland, 1881, and D. Sc. (Hon.), 1907: Visiting Physician, City Detention Hospital, Bay View.

1305 Park Av.

HUGH HAMPTON YOUNG, M. D., *Clinical Professor of Urology.*

A. B. and A. M., University of Virginia, 1893, and M. D., 1894; Instructor, Associate, and Associate Professor of Genito-Urinary Surgery, The Johns Hopkins University, 1893-1914; *Visiting Urologist.*

Charles St. and Cold Spring Lane.

WILLIAM WOOD RUSSELL, M. D., *Associate Professor of Clinical Gynecology.*

M. D., University of Pennsylvania, 1890; *Assistant Visiting Gynecologist.*

1208 Eutaw Place.

*ROBERT LEE RANDOLPH, A. M., M. D., *Associate Professor of Clinical Ophthalmology and Otology.*

M. D., University of Maryland, 1884; A. M. (Hon.), Johns Hopkins University, 1902; *Visiting Ophthalmologist.*

609 Park Av.

THOMAS BARNES FUTCHER, M. B., *Associate Professor of Clinical Medicine.*

M. B., University of Toronto, 1893; *Assistant Visiting Physician.*

1129 N. Calvert St.

JOSEPH COLT BLOODGOOD, M. D., *Associate Professor of Clinical Surgery.*

S. B., University of Wisconsin, 1888; M. D., University of Pennsylvania, 1891; *Assistant Visiting Surgeon.*

904 N. Charles St.

WILLIAM WEBBER FORD, M. D., D. P. H., *Associate Professor of Bacteriology, School of Hygiene and Public Health.*

A. B., Adelbert College, 1893; M. D., Johns Hopkins University, 1898, Instructor, Associate, and Associate Professor of Bacteriology, 1904-1910; Associate Professor of Bacteriology and Hygiene, 1910-17; D. P. H., McGill University, 1900, and Fellow in Pathology, 1899-1901; Fellow, Rockefeller Institute for Medical Research, 1901-02; Lecturer on Hygiene and Epidemiology, Johns Hopkins Medical School, 1917-.

Woodbrook.

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* Died December 11, 1919.

MAX BROEDEL, *Associate Professor of Art as Applied to Medicine.*

Academy of Arts, Leipzig, 1885-90; Illustrator, University of Leipzig, until 1894.

320 Suffolk St., Guilford.

WILLIAM STEVENSON BAER, M. D., *Associate Professor of Clinical Orthopedic Surgery.*

A. B., Johns Hopkins University, 1894, and M. D., 1898; *Assistant Visiting Orthopedic Surgeon.*

4 E. Madison St.

DONALD RUSSELL HOOKER, M. D., *Associate Professor of Physiology.*

A. B., Yale University, 1899, and M. S., 1901; M. D., Johns Hopkins University, 1905; *Managing Editor, American Journal of Physiology.*

Upland, Roland Park.

THOMAS RICHMOND BOGGS, M. D., *Associate Professor of Clinical Medicine.*

S. B., University of Georgia, 1896; M. D., Johns Hopkins University, 1901; Physician-in-Chief, City Hospital, Baltimore; *Assistant Visiting Physician.*

21 W. Chase St.

WILLIAM KURRELMEYER, PH. D., *Associate Professor of German.*

A. B., Johns Hopkins University, 1896, Fellow, 1897-99, and Ph. D., 1899; Professor of Modern Languages, Franklin and Marshall College, 1899-1900; *Co-editor, Modern Language Notes.*

1529 Linden Av.

CHARLES DAVID SNYDER, PH. D., *Associate Professor of Physiology.*

A. B., Leland Stanford Jr. University, 1896; M. S., University of California, 1904. and Ph. D., 1905.

730 Wyndhurst Av., Roland Park.

A. HERMAN PFUND, PH. D., *Associate Professor of Physics.*

S. B., University of Wisconsin, 1901; Fellow, Johns Hopkins University, 1905-06, Ph. D., 1906, Assistant, 1906-07, and Johnston Scholar, 1907-09.

314 E. Thirty-third St.

BENJAMIN FRANKLIN LOVELACE, PH. D., *Associate Professor of Chemistry.*

S. B., University of Alabama, 1904; Fellow, Johns Hopkins University, 1906-07, Ph. D., 1907, and Assistant, 1907-08; Professor of Chemistry, University of Alabama, 1908-11.

Calvert Court Apts.

ALEXANDER GRAHAM CHRISTIE, M. E., *Associate Professor of Mechanical Engineering.*

Diploma in Engineering, University of Toronto, 1901, and M. E., 1912; Instructor, Cornell University, 1904-05; Associate Professor of Steam and Gas Engineering, University of Wisconsin, 1909-14.

Homewood Apartments.

JOHN CALVIN FRENCH, PH. D., *Associate Professor of English.*

A. B., Johns Hopkins University, 1899, Fellow, 1903-04, and Ph. D., 1905; *Director, Bureau of Appointments.*

Cedarcroft Rd., Govans.

AARON EMBER, PH. D., *Associate Professor of Semitic Languages.*

A. B., Johns Hopkins University, 1901, Fellow, 1903-04, Ph. D., 1904, and Rayner Fellow, 1904-10.

12 Montgomery Rd., Windsor Hills.

EDWARDS A. PARK, M. D., *Associate Professor of Pediatrics.*

A. B., Yale University, 1900; M. D., Columbia University, 1905, Instructor in Medicine and Pediatrics and Proudfit Fellow, 1909-12; *Associate Pediatrician.*

145 W. Lanvale St.

CHARLES MACFIE CAMPBELL, M. D., *Associate Professor of Psychiatry.*

A. M., University of Edinburgh, 1897, and B. Sc., 1900, M. B. Ch. B., 1902, and M. D., 1911; Member of Royal College of Physicians of Edinburgh, 1908; Associate in Clinical Psychiatry, Psychiatric Institute, New York, 1908-11; Instructor in Psychopathology, Cornell University Medical School, 1910-13; First Assistant in Bloomingdale Hospital, New York, 1911-13; *Associate Psychiatrist.*

21 Talbot Rd., Windsor Hills.

ABRAHAM COHEN, PH. D., *Associate Professor of Mathematics.*

A. B., Johns Hopkins University, 1891, Fellow, 1893-94, and Ph. D., 1894; *Associate Editor, American Journal of Mathematics and American Mathematical Monthly*

1744 Park Av.

LOUIS VIRGIL HAMMAN, M. D., *Associate Professor of Clinical Medicine.*

A. B., Rock Hill College,1896; M. D., Johns Hopkins University, 1901; *Assistant Visiting Physician.*

1107 St. Paul St.

JOHN TIMOTHY GERAGHTY, M. D., *Associate Professor of Clinical Urology.*

A. B., St. Thomas College (Minn.), 1895; Ph. B., St. Paul Seminary (Minn.), 1897; M. D., Johns Hopkins University, 1903; *Assistant Visiting Urologist.*

Charles St. and Whitfield Rd.

FREDERICK HARRY BAETJER, M. D., *Associate Professor of Clinical Roentgenology.*

A. B., Johns Hopkins University, 1897, and M. D., 1901; *Roentgenologist.*

4 E. Madison St.

RALPH VAN DEMAN MAGOFFIN, PH. D., *Associate Professor of Greek and Roman History.*

A. B., University of Michigan, 1902; Instructor in Latin and Greek, Marietta College Academy, 1902-05; Fellow, American School of Classical Studies, Rome, 1906-07; Fellow, Johns Hopkins University, 1907-08, and Ph. D., 1908; Archæological Institute of America (Recorder, 1914-).

1401 Madison Av.

SAMUEL JAMES CROWE, M. D., *Associate Professor of Clinical Laryngology.*

A. B., University of Georgia, 1904; M. D., Johns Hopkins University, 1908; *Visiting Laryngologist, Rhinologist, and Otologist.*

1206 Linden Av.

CLYDE GRAHAM GUTHRIE, M. D., *Associate Professor of Medicine.*

A. B., Lafayette College, 1903; M. D., Johns Hopkins University, 1907, Assistant Instructor, and Associate, 1908-16; *Associate Physician, in charge of the Clinical Laboratory.*

Carlton Apartments.

GEORGE JULIUS HEUER, M. D., *Associate Professor of Surgery.*

S. B., University of Wisconsin, 1903; M. D., Johns Hopkins University, 1907, Instructor and Associate, 1912-16; *Associate Surgeon.*

6 E. Read St.

ALLEN KRAMER KRAUSE, M. D., *Associate Professor of Medicine.*

A. B., Brown University, 1901, and A. M., 1902; M. D., Johns Hopkins University, 1907; Assistant and Instructor in Pathology, 1907-1909; Assistant, and Assistant Director, Saranac Laboratory for Study of Tuberculosis, 1909-16; *Managing Editor, American Review of Tuberculosis;* Instructor, Trudeau School of Tuberculosis; *Physician in charge, Phipps Tuberculosis Dispensary and Laboratory; Associate Physician.*

3 Norwood Pl., Guilford.

ROBERT BRUCE ROULSTON, PH. D., *Associate Professor of German.*

A. B., Johns Hopkins University, 1900, Fellow, 1902-03, and Ph. D., 1906; *Secretary, Johns Hopkins Alumni Association; Editor, Johns Hopkins Alumni Magazine; Managing Editor, Johns Hopkins University Circular.*

2706 Allendale Rd., Walbrook.

JOSEPH THEOPHILUS SINGEWALD, JR., PH. D., *Associate Professor of Economic Geology.*

A. B., Johns Hopkins University, 1906, Fellow, 1907-08, Ph. D., 1909, and Henry E. Johnston Scholar, 1910-13.

17 W. 29th St

DAVID WRIGHT WILSON, PH. D., *Associate Professor of Physiological Chemistry.*

S. B., Grinnell College, 1910; Ph. D., Yale University, 1914.

1604 N. Broadway.

DAVID SIMON BLONDHEIM, PH. D., *Associate Professor of French.*

Johns Hopkins University (A. B., 1906, Fellow, 1909-10, Ph. D., 1910, Johnston Scholar, 1913-14); Instructor, Associate, and Assistant Professor of Romance Languages, University of Illinois, 1910-17.

808 Reservoir St.

WILLIAM B. KOUWENHOVEN, DR.-ING., *Associate Professor of Electrical Engineering.*

E. E., Brooklyn Polytechnic Institute, 1906, and M. E., 1907; Doktor-Ingenieur, Karlsruhe, Germany, 1913; Instructor in Electrical Engineering, Brooklyn Polytechnic Institute, 1907, and Washington University, 1913-14.

[Absent on leave.]

WALTER A. PATRICK, PH. D., *Associate Professor of Chemistry.*

B. S., Syracuse University, 1910; Swett Fellow, Massachusetts Institute of Technology, 1912-14; Ph. D., University of Göttingen, 1914; Research Assistant, University College, London, 1914-15.

The Terraces, Mt. Washington.

CARROLL GIDEON BULL, M. D., *Associate Professor of Immunology, School of Hygiene and Public Health.*

S. B., Peabody College, 1907; M. D., University of Nashville, 1909; Pathologist to Lincoln Memorial Hospital, 1910-1912; Assistant, Nelson Morris Institute for Medical Research, 1912-13; Assistant and Associate in Pathology and Bacteriology, The Rockefeller Institute for Medical Research, 1913-17; Major, Medical Corps, U. S. A.

214 E. 20th St.

RICHARD HOLDEN FOLLIS, M. D., *Associate Professor of Clinical Surgery.*

Ph. B., Yale University, 1895; M. D., Johns Hopkins University, 1899; *Assistant Visiting Surgeon.*

3 E. Read St.

JOHN HERBERT GREGORY, S. B., *Associate Professor of Civil Engineering, in charge of instruction in Sanitary Engineering.*

S. B., Massachusetts Institute of Technology, 1895; Member, American Society of Civil Engineers.

3925 Canterbury Rd., Roland Park.

KENNETH DANIEL BLACKFAN, M. D., *Associate Professor of Pediatrics.*

M. D., Albany Medical College, 1905; Pathologist, Albany Hospital, and Bacteriologist to Bender Laboratory, Albany, N. Y., 1905-1906; Resident Pediatrician, St. Louis Children's Hospital, 1911-1912; *Assistant Pediatrician.*

6 E. Read St.

THOMAS RICHARDSON BROWN, M. D., *Associate Professor of Clinical Medicine.*

A. B., Johns Hopkins University, 1892, and M. D., 1897; *Assistant Visiting Physician.*

17 W. Biddle St.

GEORGE WASHINGTON CORNER, M. D., *Associate Professor of Anatomy.*

A. B., Johns Hopkins University, 1909, M. D., 1913, and Assistant, 1913-14; Assistant Professor of Anatomy, University of California, 1915-19.

4509 Maine Av., Forest Park.

ALPHONSE RAYMOND DOCHEZ, M. D., *Associate Professor of Medicine.*

A. B., Johns Hopkins University, 1903, and M. D., 1907; Fellow, Rockefeller Institute, 1909-10, Bacteriologist, Rockefeller Hospital, 1911, and Associate Member of the Institute, 1911-19; *Associate Physician.*

406 Cathedral St.

DAVID KLEIN, PH. D., *Associate Professor of Bio-Chemistry, School of Hygiene and Public Health.*

A. B. and A. M., University of Illinois, 1906 and 1907; Instructor, University of Illinois, 1907; Ph. D., University of Wisconsin, 1910; Fellow, Assistant, Instructor and Associate Professor, University of Wisconsin, 1908-14; State Chemist, Illinois, 1914-18; Captain, Sanitary Corps, U. S. A., 1918-19, and Major, 1919.

1109 St. Paul St.

WALTER WALKER PALMER, M. D., *Associate Professor of Medicine.*

B. S., Amherst College, 1905; M. D., Harvard University, 1910, Walcott Fellow, 1912 and 1913, and Instructor in Physiological Chemistry, 1912-13; House Physician, Massachusetts General Hospital, 1913-15; Assistant Resident Physician, Hospital of the Rockefeller Institute, 1915-17; Associate Professor of Medicine, Columbia University, and Visiting Physician, Presbyterian Hospital, 1917-19; *Associate Physician.*

406 Cathedral St.

LOWELL JACOB REED, PH. D., *Associate Professor of Biometry and Vital Statistics, School of Hygiene and Public Health.*

S. B. and S. M., University of Maine, 1907 and 1912; Ph. D., University of Pennsylvania, 1915; Assistant Professor of Mathematics, University of Maine, 1915-17; Director of Bureau of Tabulation and Statistics, War Trade Board, Washington, 1917-18.

Riderwood.

JAMES B. ARTHUR, *Acting Associate Professor of Electrical Engineering.*

Instructor in Electrical Engineering, Lehigh University, 1913-14, United States Naval Academy, 1916-18, and Johns Hopkins University, 1917-18.

8 E. Mt. Royal Av.

RHEINART PARKER COWLES, PH. D., *Associate Professor of Zoölogy.*

A. B., Leland Stanford, Jr. University, 1899; Fellow, Johns Hopkins University, 1901-02, Bruce Fellow, 1902-04, Ph. D., 1904, Assistant, Instructor, and Associate, 1904-11; Professor of Zoölogy, University of the Philippines, 1911-19.

1505 Bolton St.

WILLIAM ARTHUR DEHUFF, C. E., *Associate Professor of Civil Engineering.*

C. E., Cornell University, 1910; Instructor and Head of Department of Engineering, Baltimore Polytechnic Institute, 1912-19.

203 E. 32d St.

JULIAN CHASE SMALLWOOD, M. E., A. M., *Associate Professor of Mechanical Engineering.*

M. E., Columbia University, 1903, and Assistant, 1904-05; A. M., Johns Hopkins University, 1917; Instructor, University of Pennsylvania, 1908-10; Associate Professor of Experimental Engineering, Syracuse University, 1910-16.

3137 N. Calvert St.

ROBERT WILLIAM HEGNER, PH. D., *Associate Professor of Protozoölogy, School of Hygiene and Public Health.*

S. B., University of Chicago, 1903, and S. M., 1904; Ph. D., University of Wisconsin, 1908; Instructor, University of Michigan, 1908-10, and Assistant Professor, 1910-17; Johnston Scholar, Johns Hopkins University, 1917-18.

218 Hawthorn Rd., Roland Park.

WILLIAM TRAVIS HOWARD, M. D., *Lecturer in Biometry and Vital Statistics, School of Hygiene and Public Health.*

M. D., University of Maryland, 1889; Graduate Student, Johns Hopkins University, 1889-1894; Professor of Pathology, Western Reserve University, and Pathologist to the Lakeside and City Hospitals, Cleveland, 1894-1914; Bacteriologist, Cleveland Board of Health, 1902-14; Assistant Commissioner of Health, Baltimore, 1915-19; Member, Association of American Physicians.

1122 N. Calvert St.

FRANK ROBERT SMITH, M. D., *Associate in Clinical Medicine.*

A. M., University of Cambridge, 1882; M. D., University of Maryland, 1891; *Dispensary Physician.*

1126 Cathedral St.

GUY LEROY HUNNER, M. D., *Associate in Clinical Gynecology.*

S. B., University of Wisconsin, 1893; M. D., Johns Hopkins University, 1897; *Assistant Visiting Gynecologist.*

2305 St. Paul St.

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.

1515 Eutaw Place.

LOUIS PHILIP HAMBURGER, M. D., *Associate in Clinical Medicine.*

A. B., Johns Hopkins University, 1893, and M. D., 1897; *Dispensary Physician.*

1207 Eutaw Place.

FRANK RINGGOLD BLAKE, PH. D., *Associate in Oriental Languages.*

A. B., Johns Hopkins University, 1897, Fellow, 1898-1902, and Ph. D., 1902.

109 W. Monument St.

JAMES HALL MASON KNOX, JR., PH. D., M. D., *Associate in Clinical Pediatrics.*

A. B., Yale University, 1892, and Ph. D., 1894; A. M., Lafayette College, 1896; M. D., Johns Hopkins University, 1898; *Assistant Visiting Pediatrician.*

211 Wendover Rd., Guilford.

EDWARD HENDERSON RICHARDSON, M. D., *Associate in Clinical Gynecology.*

A. B., Hampden-Sidney College, 1900; M. D., Johns Hopkins University, 1905; *Consulting Gynecologist, City Hospital, Bay View; Assistant Visiting Gynecologist.*

1200 N. Charles St.

JOHANNES MATTERN, *Assistant Librarian.*

Universities of Münster and Bonn, 1904-07; Librarian in Charge, Bureau of Statistics, Department of Commerce and Labor, 1910-11.

2620 Maryland Av.

CHARLES ROBERT AUSTRIAN, M. D., *Associate in Clinical Medicine.*

A. B., Johns Hopkins University, 1904, and M. D., 1909; *Dispensary Physician, Phipps Dispensary.*

1417 Eutaw Place.

KARL MILLER WILSON, M. D. C. M., *Associate in Clinical Obstetrics.*

M. D. C. M., McGill University, 1908; *Assistant Visiting Obstetrician.*

23 W. Chase St.

WALTER ALBERT BAETJER, M. D., *Associate in Clinical Medicine.*

A. B., Johns Hopkins University, 1905, and M. D., 1909; *Assistant in Clinical Laboratory.*

16 W. Madison St.

PAUL DUDLEY LAMSON, M. D., *Associate in Exper. Therapeutics.*
A. B., Harvard University, 1905, and M. D., 1909.
3916 Clover Hill Rd.

EDGAR RANDOLPH STROBEL, M. D., *Associate in Clinical Dermatology.*
A. B., Johns Hopkins University, 1895, and M. D., 1899; *Dispensary Dermatologist.*
104 Longwood Rd., Roland Park.

DAVID MELVIN DAVIS, M. D., *Associate in Urology.*
S. B., Princeton University, 1907; M. D., Johns Hopkins University, 1911; *Assistant in Urology, the Johns Hopkins Hospital.*
709 St. Paul St.

GEORGE E. BENNETT, M. D., *Associate in Clinical Orthopedic Surgery.*
M. D., University of Maryland, 1909; *Assistant Visiting Surgeon.*
4 E. Madison St.

HENRY SLONIMSKY, PH. D., *Associate in Philosophy.*
Ph. D., University of Marburg, 1912; Lecturer in Philosophy, Columbia University, 1914-15.
818 W. 40th St.

ARTHUR LEONARD BLOOMFIELD, M. D., *Associate in Medicine.*
A. B., Johns Hopkins University, 1907, and M. D., 1911; Resident House Officer, the Johns Hopkins Hospital, 1911-12; *Resident Physician, and Medical Adviser to the Students.*
The Johns Hopkins Hospital.

FLORENCE EILAU BAMBERGER, A. M., *Associate in Education.*
S. B., Columbia University, 1914, and A. M., 1915.
210 Laurens St.

STANHOPE BAYNE-JONES, M. D., A. M., *Associate in Bacteriology.*
A. B., Yale University, 1910; M. D., Johns Hopkins University, 1914, and A. M., 1917; Assistant Resident Pathologist, the Johns Hopkins Hospital, 1915-17.
712 St. Paul St.

GUSTAV GRUENBAUM, PH. D., *Associate in Romance Languages.*
A. B., University of Bucarest, 1902; Fellow, Johns Hopkins University, 1910-11, and Ph. D., 1912; *Co-Editor, Modern Language Notes.*
2613 Maryland Av.

CHARLES BAGLEY, JR., M. D., *Associate in Experimental Neurology.*
M. D., University of Maryland, 1904.
5 W. Chase St.

GEORGE LANE TANEYHILL, JR., M. D., *Associate in Clinical Neurology.*
A. B., Johns Hopkins University, 1900, and M. D., 1904; *Dispensary Neurologist.*
1103 Madison Av.

CHARLES METCALFE BYRNES, M. D., *Associate in Clinical Neurology.*
S. B., University of North Carolina, 1902; M. D., Johns Hopkins University, 1906; Adjunct Professor of Anatomy, University of Virginia, 1908-09; *Dispensary Neurologist.*
207 E. Preston St.

SYDNEY ROBOTHAM MILLER, M. D., *Associate in Clinical Medicine.*

S. B., New York University, 1905; M. D., Johns Hopkins University, 1910; *Assistant in Clinical Laboratory.*

108 St. John's Rd., Roland Park.

MYRICK WHITING PULLEN, S. B., *Associate in Electrical Engineering.*

S. B. in E. E., Iowa State College, 1908, and Instructor, 1908-10.

[Absent on leave.]

ALBERT KEIDEL, M. D., *Associate in Clinical Medicine.*

A. B., Johns Hopkins University, 1900, and M. D., 1903; *Dispensary Physician.*

2 W. Biddle St.

LLOYD WARREN KETRON, M. D., *Associate in Clinical Dermatology.*

A. B., Grant University, 1907; M. D., Johns Hopkins University, 1911; *Dispensary Dermatologist.*

900 St. Paul St.

WALTER EDWARD DANDY, M. D., A. M., *Associate in Surgery.*

A. B., University of Missouri, 1907; M. D., Johns Hopkins University, 1910, and A. M., 1911; *Assistant Surgeon.*

The Johns Hopkins Hospital.

H. HAYS BULLARD, PH. D., M. D., *Associate in Pathology.*

A. B., University of Missouri, 1908, and A. M., 1909; Ph. D., Tulane University, 1912, and Instructor in Anatomy, 1909-12; Instructor, University of Pittsburgh, 1912-14; M. D., Johns Hopkins University, 1916; *Resident Pathologist.*

The Johns Hopkins Hospital.

LLOYD DERR FELTON, M. D., *Associate in Bacteriology.*

A. B., Wooster University, 1910; M. D., Johns Hopkins University, 1916; *Externe, the Johns Hopkins Hospital.*

1601 N. Broadway.

EVERETT DUDLEY PLASS, M. D., *Associate in Obstetrics.*

A. B., Colgate University, 1907; M. D., Johns Hopkins University, 1911, Assistant and Instructor, 1912-17; *Assistant Visiting Obstetrician.*

GEORGE HENRY ROBINSON, PH. D., *Associate in Bacteriology, School of Hygiene and Public Health.*

A. B., Bates College, 1911; A. M., Brown University, 1912, and Ph. D., 1914; Research Laboratory, H. K. Mulford Company, 1914-18.

3818 Barrington Road.

REYNOLD ALBRECHT SPAETH, PH. D., *Associate in Physiology, School of Hygiene and Public Health.*

S. B., Haverford College, 1909; A. M., Harvard University, 1910, and Ph. D., 1913; Sheldon Fellow, Physiological Institute, Kiel, 1913-14; Instructor in Biology, Clark College, 1914-15, and Yale University, 1915-18; Technical Assistant in Pharmacology, Hygienic Laboratory, U. S. Public Health Service, 1918.

212 Longwood Road, Roland Park.

FRANCIS DOMINIC MURNAGHAN, PH. D., *Associate in Applied Mathematics.*

A. B., National University of Ireland, 1913, and A. M., 1914; Ph. D., Johns Hopkins University, 1916; Instructor in Mathematics, Rice Institute, 1916-18.

Peabody Apartments.

JOHN RICE MINER, A.B., *Associate in Biometry and Vital Statistics, School of Hygiene and Public Health.*

A. B., University of Michigan, 1913; Computer, Maine Agricultural Experiment Station, 1913-17; Biometrician, Statistical Division, U. S. Food Administration, 1917-18.

Towson.

WILLIAM WALTER CORT, PH. D., *Associate in Helminthology, School of Hygiene and Public Health.*

A. B., Colorado College, 1909; A. M., University of Illinois, 1911, and Ph. D., 1914; Profesor of Biology, Macalester College, 1914-17; Assistant Professor of Zoölogy, University of California, 1917-19; Consulting Helminthologist, State Board of Health, California, 1918-19.

1519 E. North Av.

WILLIAM CABLER MOORE, PH. D., *Associate in Immunology, School of Hygiene and Public Health.*

S. S., Peabody College, 1903, and Assistant in Chemistry and Physics, 1903-05; Instructor, University of Nashville, 1904-06; Loewenthal Fellow, University of Chicago, 1907-09, and Ph. D., 1910; Instructor, Columbia University, 1909-13; Research Chemist, National Carbon Company, 1913-19.

4110 Fernhill Av.

EVELETH WILSON BRIDGMAN, M. D., *Associate in Medicine.*

A. B., Johns Hopkins University, 1908, and M. D., 1912; *Assistant Resident Physician.*

1754 Park Av.

ROBERT SYDNEY CUNNINGHAM, M. D., *Associate in Anatomy.*

S. B. and A. M., Davidson College, 1911; M. D., Johns Hopkins University, 1915.

Y. M. C. A.

WILLIAM ARCHIBALD FRONTZ, M. D., *Associate in Clinical Urology.*

A. B., Princeton University, 1907; M. D., Johns Hopkins University, 1911; *Assistant Urologist.*

1119 N. Caroline St.

ROSCOE RAYMOND HYDE, PH. D., *Associate in Immunology, School of Hygiene and Public Health.*

A. B., Indiana University, 1909; Ph. D., Columbia University, 1915; Assistant in Embryology, Indiana University, 1908-09; Assistant Professor, Professor, and Head of Department of Zoölogy and Physiology, Indiana State Normal School, 1909-19; Lecturer in Genetics, Terre Haute Veterinary College 1910-18; Dyckman Fellow, Columbia University, 1912-13; Fellow, School of Hygiene and Public Health, 1918-19.

4101 Penhurst Av.

CHARLES CLIFFORD MACKLIN, M. B., *Associate in Anatomy.*

M. B., University of Toronto, 1916, and Richardson Fellow, 1912-13; Assistant Professor of Anatomy, University of Pittsburgh, 1918-19.

Regis Apts., Belvidere and Denmore Avs.

ARTHUR LOUIS MEYER, M. D., *Associate in Physiology, School of Hygiene and Public Health.*

A. B., Beloit College, 1905; M. D., University of Pennsylvania, 1909; Assistant Russell Sage Institute of Pathology, 1914-15; Assistant and Associate, Rockefeller Institute for Medical Research, 1915-19; Captain, Medical Corps, U. S. A., 1918-19.

1109 St. Paul St.

GROVER FRANCIS POWERS, M. D., *Associate in Clinical Pediatrics.*

S. B., Purdue University, 1908; M. D., Johns Hopkins University, 1913; *Pediatrician in charge of Pediatric Dispensary.*

1600 Bolton St.

HARRY RICHMOND SLACK, JR., M. D., *Associate in Clinical Laryngology.*

A. B., University of Georgia, 1908; M. D., Johns Hopkins University, 1912; *Assistant Dispensary Laryngologist.*

1100 N. Charles St.

WILLIAM MYNN THORNTON, JR., PH. D., *Associate in Chemistry.*

A. B., University of Virginia, 1907; Ph. D., Yale University, 1914; Assistant in Chemistry, Massachusetts Agricultural College, 1907-08; Tutor, College of the City of New York, 1914-15.

28 Roland Av.

WILLIAM OSWALD WEYFORTH, PH. D., *Associate in Political Economy.*

A. B., Johns Hopkins University, 1912, and Ph. D., 1915; Instructor, Western Reserve University, 1915-17.

2329 Linden Av.

FREDERICK CONRAD BLANCK, PH. D., *Associate in Chemistry.*

A. B., Johns Hopkins University, 1903, and Ph. D., 1907; State Food and Drug Commissioner, Baltimore.

Boulevard Apts.

PAUL WISWALL CLOUGH, M. D., *Associate in Clinical Medicine.*

S. B., University of Wisconsin, 1903; M. D., Johns Hopkins University, 1907; *Associate Physician.*

3905 Cloverhill Rd.

CHESTER HENRY HEUSER, PH. D., *Associate in Anatomy.*

A. B., University of Kansas, 1908, and A. M., 1910; Ph. D., Harvard University, 1913; Fellow in Zoölogy, University of Kansas, 1908-09; Instructor, 1909-10; Assistant Professor, 1912; Austin Teaching Fellow, Harvard University, 1910-13; Fellow, Wistar Institute, 1913-19.

2500 Garrison Av.

THEO JACOBS, A. B., *Associate in Social Economics.*

A. B., Goucher College, 1901; Federated Charities of Baltimore (District Assistant, 1905-07, District Secretary, 1907-10, Assistant General Secretary, 1910-17, Acting General Secretary, 1917-19).

1904 Bolton St.

WYATT WILLIAM RANDALL, PH. D., *Associate in Chemistry.*

A. B., St. John's College, 1884; Assistant and Associate in Chemistry, 1890-1898; Chemist, State Department of Health.

Tuscany Apartments.

JANET HOWELL CLARK, PH. D., *Associate in Physiological Hygiene, School of Hygiene and Public Health.*

A. B., Bryn Mawr College, 1910; A. M., Johns Hopkins University, 1912, and Ph. D., 1913; Huff Fellow, Bryn Mawr College, 1912-14, and Instructor in Physics, 1914-15; Sarah Berliner Fellow, 1915-16; Instructor, Smith College, 1916-17.

232 W. Lanvale St.

MATHILDE KOCH, M. S., *Associate in Chemical Hygiene, School of Hygiene and Public Health.*

B. S., University of Chicago, 1912, and M. S., 1919.

FREDERICK MARLIN MEADER, M. D., *Associate in Epidemiology, School of Hygiene and Public Health.*

S. B., Wesleyan University, 1902, and M. S., 1905; M. D., Johns Hopkins University, 1909.

SAMUEL EDWIN WHITEMAN, *Instructor in Drawing.*

Ecole des Beaux-Arts, Paris. Mt. Washington.

JACOB HALL PLEASANTS, M. D., *Instructor in Clinical Medicine.*

A. B., Johns Hopkins University, 1895, and M. D., 1899; President, Supervisors of City Charities; *Dispensary Physician.*

201 Longwood Rd., Roland Park.

WILLIAM RUSH DUNTON, JR., M. D., *Instructor in Clinical Psychiatry.*

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

714 E. Evesham Av., Govans.

JAMES JOSEPH MILLS, M. D., *Instructor in Clinical Ophthalmology.*

M. D., Baltimore Medical College, 1889; *Dispensary Ophthalmologist.*

853 Park Av.

RONALD TAYLOR ABERCROMBIE, M. D., *Director of the Gymnasium.*

A. B., Johns Hopkins University, 1901, and M. D., 1905.

10 Whitfield Rd., Guilford.

JOSEPH ALBERT CHATARD, M. D., *Instructor in Clinical Medicine.*

A. B., Loyola College, 1898; M. D., Johns Hopkins University, 1903; *Dispensary Physician.*

40 W. Biddle St

CHARLES WILLIAM LARNED, M. D., *Instructor in Clinical Medicine.*

M. D., University of Maryland, 1893; *Dispensary Physician.*

1327 Park Av.

HENRY LEE SMITH, A. M., M. D., F. R. S. A. (Lond.), *Instructor in Clinical Medicine.*

M. D., University of Maryland, 1894; A. M. (Hon.), St. John's College (Md.) 1909; Fellow, Royal Society of Arts of London, 1914; *Dispensary Physician.*

2701 N. Calvert St.

SAMUEL WOLMAN, M. D., *Instructor in Clinical Medicine.*

A. B., Johns Hopkins University, 1902, and M. D., 1906; *Dispensary Physician.*

2444 Eutaw Place.

JOHN HENDRICKEN KING, M. D., *Instructor in Clinical Medicine.*

A. B., Johns Hopkins University, 1899, and M. D., 1906; *Dispensary Physician.*

1227 N. Calvert St

ROADES FAYERWEATHER, M. D., *Instructor in Clinical Orthopedic Surgery.*

A. B., Harvard University, 1899; M. D., Johns Hopkins University, 1903; *Dispensary Surgeon.*

529 N. Charles St.

BERTRAM MOSES BERNHEIM, M. D., *Instructor in Clinical Surgery.*

A. B., Johns Hopkins University, 1901, and M. D., 1905; *Dispensary Surgeon.*

2313 Eutaw Pl.

JOHN STAIGE DAVIS, M. D., *Instructor in Clinical Surgery.*

Ph. B., Yale University, 1895; M. D., Johns Hopkins University, 1899; *Assistant Visiting Surgeon.*

1200 Cathedral St.

WILLIAM ALEXANDER FISHER, M. D., *Instructor in Clinical Surgery.*

A. B., Princeton University, 1896; M. D., Johns Hopkins University, 1900; *Assistant Visiting Surgeon.*

715 Park Av.

EUGENE JOSEPH LEOPOLD, M. D., *Assistant in Clinical Medicine.*

A. B., Johns Hopkins University, 1901, and M. D., 1905; *Dispensary Physician.*

803 Park Av.

OMAR BORTON PANCOAST, M. D., *Instructor in Clinical Surgery.*

S. B., Swarthmore College, 1893; M. D., Johns Hopkins University, 1897; *Dispensary Surgeon.*

1111 N. Charles St.

TRIGANT BURROW, M. D., PH. D., *Assistant in Clinical Psychiatry.*

A. B., Fordham University, 1895; M. D., University of Virginia, 1899; Ph. D., Johns Hopkins University, 1909, and Assistant in Psychology, 1907-09; *Assistant Dispensary Psychiatrist.*

Tuscany Apartments.

MARTIN FRANCIS SLOAN, M. D., *Instructor in Clinical Medicine.*

M. D., Baylor University, 1907; Resident Physician, Eudowood Sanatorium; *Dispensary Physician.*

Eudowood.

ISAAC ROSENBAUM PELS, M. D., *Instructor in Clinical Dermatology.*

A. B., Johns Hopkins University, 1902, and M. D., 1906; *Dispensary Dermatologist.*

1011 N. Charles St.

HARVEY BRINTON STONE, M. D., *Instructor in Clinical Surgery.*

A. B., Johns Hopkins University, 1902, and M. D., 1906; Adjunct Professor of Surgery, University of Virginia, 1907-10; *Dispensary Surgeon.*

18 W. Franklin St.

LEO JOHN GOLDBACH, M. D., *Instructor in Clinical Ophthalmology.*

A. B., Loyola College, 1901; M. D., University of Maryland, 1905; *Dispensary Ophthalmologist.*

322 N. Charles St.

ROBERT WILLIAM BAINBRIDGE MAYO, M. D., *Instructor in Clinical Medicine.*

A. B., Maryland Agricultural College, 1903, and M. S., 1904; M. D., Johns Hopkins University, 1908; *Dispensary Physician.*

819 N. Charles St.

MONT ROGERS REID, M. D., *Instructor in Surgery.*

A. B., Roanoke College, 1908; M. D., Johns Hopkins University, 1912; *Resident Surgeon.*

The Johns Hopkins Hospital

JOHN SCOTT WILLOCK, M. D., *Instructor in Clinical Dermatology.*

S. B., Princeton University, 1900; M. D., Johns Hopkins University, 1904; *Assistant Dispensary Dermatologist.*

801 Falls Rd. Terr., Roland Pk.

PAUL GALPIN SHIPLEY, M. D., *Instructor in Pediatrics.*

M. D., Yale University, 1913; *Assistant Dispensary Pediatrician.*

2412 Linden Av.

MILDRED CLARK CLOUGH, M. D., *Instructor in Clinical Medicine.*

A. B., Wellesley College, 1910; M. D., Johns Hopkins University, 1914; *Dispensary Physician.*

3905 Cloverhill Rd.

JAMES LAWDER GAMBLE, M. D., *Instructor in Pediatrics.*

A. B., Leland Stanford Jr. University, 1906; M. D., Harvard University, 1910; *Dispensary Physician.*

7 Northfield Pl., Roland Pk.

ROSCOE WILLIS HALL, M. D., *Instructor in Psychology.*

Ph. D., Dickinson College, 1908; M. D., Johns Hopkins University, 1912.

The Johns Hopkins Hospital.

HAROLD LEONARD HIGGINS, M. D., *Assistant in Pediatrics.*

A. B., Harvard University, 1907; M. D., Johns Hopkins University, 1919; *Assistant Resident Pediatrician.*

The Johns Hopkins Hospital.

FREDERICK WILLIAM HOBELMANN, M. D., *Instructor in Clinical Urology.*

M. D., Baltimore Medical College, 1901; *Dispensary Urologist.*

33 Gunther Building.

MARY ASHMUN HODGE, M. D., *Instructor in Clinical Medicine.*

A. B., Leland Stanford Jr. University, 1903; M. D., Johns Hopkins University, 1914; *Dispensary Physician.*

2635 St. Paul St.

EMIL NOVAK, M. D., *Instructor in Clinical Gynecology.*

A. B., Loyola College, 1912; M. D., University of Maryland, 1904; Associate Professor of Gynecology, College of Physicians and Surgeons, Baltimore.

26 E. Preston St.

CAROLINE BENSON TOWLES, M. D., *Assistant in Clinical Medicine.*
A. B., Woman's College of Baltimore, 1893; M. D., Johns Hopkins University, 1905; *Dispensary Physician.*
Arundel Apts.

CHARLES ALEXANDER WATERS, M. D., *Instructor in Roentgenology.*
M. D., University of Maryland, 1911; *Assistant Roentgenologist.*
1100 N. Charles St.

THEODORE KISTLER, *Gymnasium Instructor.* Cottage Apartments.

JOHN ARCHIBALD CAMPBELL COLSTON, M. D., *Instructor in Urology.*
Ph. B., Yale University, 1907; M. D., Johns Hopkins University, 1911; *Assistant Urologist.*
1016 St. Paul St.

JONATHAN EDWARD BURNS, JR., M. D., *Instructor in Urology.*
A. B., University of Virginia, 1904; M. D., Johns Hopkins University, 1908; *Assistant in Urology.*
1035 N. Calvert St.

JAMES JULIAN CHISOLM, M. D., *Instructor in Clinical Laryngology.*
A. B., Princeton University, 1911; M. D., Johns Hopkins University, 1916; *Assistant Dispensary Laryngologist.*
1107 St. Paul St.

EDWARD VINCENT COOLAHAN, M. D., *Instructor in Clinical Medicine.*
A. B., Rock Hill College, 1903; M. D., Johns Hopkins University, 1908; *Dispensary Physician.*
24 N. Fulton Av.

HOAGLAND COOK DAVIS, M. D., *Instructor in Clinical Laryngology.*
M. D., University of Maryland, 1902; *Assistant Dispensary Laryngologist.*
405 N. Charles St.

FRANK ALEXANDER EVANS, M. D., *Instructor in Medicine.*
A. B., Washington and Jefferson College, 1910, and A. M., 1914; M. D., Johns Hopkins University, 1914; *Assistant Resident Physician.*
The Johns Hopkins Hospital.

JOSEPH EDWARD GATELY, M. D., *Assistant in Clinical Dermatology.*
M. D., University of Maryland, 1902; *Assistant Dispensary Dermatologist.*
1822 N. Charles St.

HARRY LOUIS HOMER, M. D., *Instructor in Clinical Surgery.*
M. D., University of Pennsylvania, 1904; *Dispensary Surgeon.*
1011 N. Charles St.

MOSES RANDOLPH KAHN, M. D., *Instructor in Clinical Ophthalmology.*
M. D., University of Maryland, 1912; *Dispensary Ophthalmologist.*
1518 Eutaw Place.

JOHN THEODORE KING, JR., M. D., *Instructor in Clinical Medicine.*
A. B., Princeton University, 1910; M. D., Johns Hopkins University, 1915; *Dispensary Physician.*
1400 Eutaw Place.

FREDERICK WILLIAM LEE, M. E., E. E., *Instructor in Electrical Engineering.* 3033 Guilford Av.

M. E. and E. E., Cornell University, 1911; Assistant, Harvard University, 1911-13.

JOHN GARDNER MURRAY, JR., M. D., *Instructor in Obstetrics.*

A. B., Johns Hopkins University, 1911, and M. D., 1915; Resident Obstetrician, 1916-18.

Charles St. and University Pkway.

JOHN WILLIAM PIERSON, M. D., *Instructor in Clinical Roentgenology.*

M. D., University of Maryland, 1905; *Assistant Roentgenologist.*

900 St. Paul St.

GEORGE LEWIS STICKNEY, M. D., *Assistant in Clinical Gynecology.*

M. D., University of Maryland, 1910.

1612 Park Av.

RUTH ELDRED FAIRBANK, M. D., *Assistant in Psychiatry.*

A. B., Illinois College, 1911; M. D., Johns Hopkins University, 1916; *Assistant Dispensary Psychiatrist.*

The Johns Hopkins Hospital.

PHYLLIS GREENACRE, M. D., *Assistant in Psychiatry.*

S. B., University of Chicago, 1913; M. D., Rush Medical College, 1916; *Assistant Resident Physician in charge of Laboratory, Phipps Psychiatric Clinic.*

The Johns Hopkins Hospital.

JOHN WARTON HARRIS, M. D., *Instructor in Obstetrics.*

A. B., University of North Carolina, 1911, and A. M., 1912; M. D., Johns Hopkins University, 1916; *Resident Obstetrician.*

The Johns Hopkins Hospital.

BENJAMIN KRAMER, M. D., *Instructor in Pediatrics.*

M. D., University and Bellevue Hospital Medical College, 1909; M. S., State University of Iowa, 1917, Instructor in Physiology, 1913-15, and Assistant Professor, 1915-17; *Assistant Dispensary Pediatrician.*

The Johns Hopkins Hospital.

EDWARD ANDERSON LOOPER, M. D., *Assistant in Clinical Ophthalmology.*

M. D., University of Maryland, 1912; *Dispensary Ophthalmologist.*

37 W. Preston St.

WILLIAM LAWRENCE MILLEA, M. D., *Instructor in Clinical Obstetrics.*

A. B., Clark University, 1908; M. D., Johns Hopkins University, 1912; *Assistant Visiting Obstetrician.*

1419 John St.

HELEN TRACY PARSONS, M. S., *Instructor in Bio-Chemistry, School of Hygiene and Public Health.*

S. B., Kansas State Agricultural College, 1911; M. S., University of Wisconsin, 1916, and Assistant and Instructor in Home Economics, 1913-17.

1709 E. Fairmount Av.

ESTHER LORING RICHARDS, M. D., *Instructor in Psychiatry.*

A. B., Mt. Holyoke College, 1910; M. D., Johns Hopkins University, 1915; *Assistant Psychiatrist.*

33 E. Mt. Vernon Pl.

AUGUSTA SCOTT, M. D., *Instructor in Psychiatry.*

Ph. B., University of Chicago, 1905; M. D., Johns Hopkins University, 1913; *Resident Psychiatrist.*

The Johns Hopkins Hospital.

NINA SIMMONDS, S. B., *Instructor in Bio-Chemistry, School of Hygiene and Public Health.*

S. B., University of Wisconsin, 1915, Assistant in Agricultural Chemistry, 1915-17.

511 N. Wolfe St.

DANIEL DELEHANTY VINCENT STUART, JR., M. D., *Assistant in Clinical Neurology.*

M. D., Georgetown University, 1908; *Assistant Dispensary Neurologist.*

Washington, D. C.

DAVID EMRICH WEGLEIN, PH. D., *Instructor in Education.*

A. B., Johns Hopkins University, 1897, and Ph. D., 1917; A. M., Columbia University, 1912; Principal, Western High School, Baltimore.

2400 Linden Av

GEORGE ARGALE HARROP, JR., M. D., *Instructor in Medicine.*

A. B., Harvard University, 1912; M. D., Johns Hopkins University, 1916; *Assistant Resident Physician.*

The Johns Hopkins Hospital.

NATHANIEL HAWLEY BRUSH, M. D., *Instructor in Psychiatry.*

A. B., Johns Hopkins University, 1909, and M. D., 1914.

Towson.

ADRIAN S. TAYLOR, M. D., *Instructor in Surgery.*

M. D., University of Virginia, 1905, and Harvard University, 1916; Professor (*elect*), Union Medical School, Peking; *Assistant Resident Surgeon.*

The Johns Hopkins Hospital.

PERCY DAVOL MEADER, PH. D., *Instructor in Bacteriology, School of Hygiene and Public Health.*

Ph. B., Brown University, 1914, Sc. M., 1916, and Ph. D., 1918; Assistant Bacteriologist, Providence Health Department, 1916-18.

813 N. Howard St.

SYLVIA LOUISE PARKER, A. B., *Instructor in Biometry and Vital Statistics, School of Hygiene and Public Health.*

A. B., Mount Holyoke College, 1916, and Laboratory Assistant in Zoology, 1916-17; Assistant Biologist, Maine Agricultural Experiment Station, 1917-18.

Riderwood.

KARL HENRY MARTZLOFF, M. D., *Assistant in Pathology.*

A. B., University of Oregon, 1913; M. D., Johns Hopkins University, 1917; *Assistant Resident Pathologist.*

The Johns Hopkins Hospital.

ETHEL BENEDICT, A. B., *Assistant in Medicine.*
A. B., Wellesley College, 1916.
1702 E. Monument St.

DE WITT BELLINGER CASLER, M. D., *Instructor in Clinical Gynecology.*
A. B., Yale University, 1900; M. D., Johns Hopkins University, 1904; *Assistant Dispensary Gynecologist.*
9 W. Chase St.

JACOB COHEN, M. D., *Assistant in Clinical Medicine.*
A. B., Johns Hopkins University, 1908, and M. D., 1912; *Assistant Dispensary Physician.*
223 S. Broadway.

PAUL EATON, M. D., *Instructor in Bacteriology, School of Hygiene and Public Health.*
A. B., Allegheny College, 1899; M. D., University of Pittsburgh, 1903.
2100 Callow Av.

ELLIOTT H. HUTCHINS, M. D., *Assistant in Clinical Surgery.*
A. B., St. John's College, 1902, and A. M., 1906; M. D., Johns Hopkins University, 1906; *Assistant Dispensary Surgeon.*
2217 St. Paul St.

HARRY M. ROBINSON, M. D., *Assistant in Clinical Dermatology.*
M. D., University of Maryland, 1909; *Assistant Dispensary Dermatologist.*
405 N. Charles St.

ERNEST LUDWIG ZIMMERMAN, M. D., *Instructor in Clinical Medicine.*
A. B., Dartmouth College, 1912; M. D., Johns Hopkins University, 1916; *Assistant Dispensary Physician.*
Charles and Centre Sts.

HELENE CONNET, A. B., *Assistant in Physiology.*
A. B., Goucher College, 1915, and Fellow, 1915-16.
727 Reservoir St.

CLARENCE E. COOLIDGE, PH. B., *Instructor in Mechanical Engineering.*
Ph. B., Yale University, 1895; Adjunct Professor, Georgia School of Technology, 1898-1900; Assistant Professor, Cornell University, 1900-1905; Instructor, Colorado School of Mines, 1912-13; Professor of Mechanical Engineering, University of Idaho, 1914-15.
3018 N. Calvert St.

ERNEST HOWARD GAITHER, M. D., *Assistant in Clinical Medicine.*
M. D., Baltimore Medical College, 1905; *Assistant Dispensary Physician.*
405 Bretton Pl.

EMILE FREDERIC HOLMAN, M. D., *Assistant in Surgery.*
A. B., Stanford University, 1911, and University of Oxford, 1916; M. D., Johns Hopkins University, 1918; *Assistant Resident Surgeon.*
The Johns Hopkins Hospital.

MARTHA KOEHNE, M. A., *Instructor in Bio-Chemistry, School of Hygiene and Public Health.*

A. B., Ohio State University, 1908, and A. M., 1910; Chemist, State Department of Health, Columbus, Ohio, 1911-18.

614 N. Broadway.

FREDERICK HAMILTON LINTHICUM, M. D., *Instructor in Laryngology.*

A. B., Loyola College, 1912; M. D., Johns Hopkins University, 1917; *Assistant Resident Surgeon.*

The Johns Hopkins Hospital.

FRANCIS LEE DUNHAM, M. D., *Instructor in Clinical Psychiatry.*

A. B., University of Vermont, 1894, and M. D., 1897; A. M., Clark University, 1915; Psychiatrist, Maryland State Board of Labor Statistics; *Assistant Psychiatrist.*

Cecil Apartments.

RUTH STOCKING LYNCH, PH. D., *Instructor in Protozoölogy, School of Hygiene and Public Health.*

A. B., Goucher College, 1910; Fellow, Bryn Mawr College, 1911-12; Fellow, Johns Hopkins University, 1912-13, and Ph. D., 1915; Palmer Fellow, Wellesley College, 1913-14; Professor of Biology, Agnes Scott College, 1915-16; Acting Professor, Wells College, 1916-17; Assistant Professor of Biology, Carnegie Institute of Technology, 1917-18.

Seville Apts.

AMY GEORGINA PHILLIPS, *Assistant in Biometry and Vital Statistics, School of Hygiene and Public Health.*

700 Gladstone Av.

GUY LEE BRYAN, JR., B. S. IN ENG., *Instructor in Surveying and Descriptive Geometry.*

B. S. in Eng., Johns Hopkins University, 1917. Guilford Manor Apts.

BROADUS MITCHELL, PH. D., *Instructor in Political Economy.*

A. B., University of South Carolina, 1913; Fellow, Johns Hopkins University, 1916-17, and Ph. D., 1918.

Johns Hopkins Club.

WILBURT CORNELL DAVISON, M. D., *Instructor in Pediatrics.*

A. B., Princeton University, 1913; B. A., University of Oxford, 1915, B. Sc., 1916, and M. A., 1919; M. D., Johns Hopkins University, 1917; *Assistant Dispensary Physician.*

1720 E. Madison St.

VERNE RHEEM MASON, M. D., *Instructor in Medicine.*

S. B., University of California, 1911; M. D., Johns Hopkins University, 1915; *Assistant Resident Physician.*

The Johns Hopkins Hospital.

FRANCIS METCALF ROOT, PH. D., *Teaching Fellow in Medical Entomology, School of Hygiene and Public Health.*

A. B., Oberlin College, 1911, and A. M., 1912; Fellow, Johns Hopkins University, 1914-15, Bruce Fellow, 1916-17, and Ph. D., 1917.

2320 Callow Av.

WILLIAM HAY TALIAFERRO, PH. D., *Instructor in Protozoölogy, School of Hygiene and Public Health.*

S. B., University of Virginia, 1915; Johns Hopkins University (Adam T. Bruce Fellow, 1917-1918, Ph. D., 1918, Johnston Scholar, 1919); Lieutenant, Medical Research Division, Chemical Warfare Service, Yale University, 1918.

1001 N. Charles St.

DANA WINSLOW ATCHLEY, M. D., *Instructor in Medicine.*

S. B., University of Chicago, 1911; M. D., Johns Hopkins University, 1915; Coolidge Fellow, Columbia University, 1916, and Instructor in Medicine, 1916-19; *Assistant Physician.*

Dixon Hill, Mt. Washington.

JOHN WARD BAYLOR, M. D., *Assistant in Laryngology.*

A. B., Washington and Lee University, 1914; M. D., Johns Hopkins University, 1918; *Resident Laryngologist.*

The Johns Hopkins Hospital.

CLYDE ALVIN CLAPP, M. D., *Assistant in Clinical Ophthalmology.*

M. D., University of Maryland and College of Physicians and Surgeons, 1902; *Dispensary Ophthalmologist.*

513 N. Charles St.

WILLIAM MORRIS HAPP, M. D., *Instructor in Pediatrics.*

A. B., University of Georgia, 1911; M. D., Johns Hopkins University, 1915; *Resident Pediatrician.*

The Johns Hopkins Hospital.

EDWARD OLSON HULBURT, PH. D., *Instructor in Physics.*

A. B., Johns Hopkins University, 1911, and Ph. D., 1915; Instructor, Western Reserve University, 1916-17.

Avon Apts.

ROBERT WILKINSON JOHNSON, JR., M. D., *Assistant in Clinical Orthopedic Surgery.*

A. B., Princeton University, 1912; M. D., Johns Hopkins University, 1917.

4 E. Madison St.

LINDA BARTELS LANGE, M. D., *Instructor in Bacteriology, School of Hygiene and Public Health.*

A. B., Bryn Mawr College, 1903; M. D., Johns Hopkins University, 1911; Fellow, Rockefeller Institute, 1912-14; Instructor in Pathology, University of Wisconsin, 1915-16; Assistant and Instructor in Medicine, Johns Hopkins University, 1916-18, and Fellow in Bacteriology, 1918-19.

804 N. Broadway.

MADGE THURLOW MACKLIN, M. D., *Assistant in Physiology, School of Hygiene and Public Health.*

A. B., Goucher College, 1914; M. D., Johns Hopkins University, 1919; Fellow, American University, Washington, 1915-19; Van Meter Fellow, Goucher College, 1918-19.

Belvedere and Denmore Avs.

JOHN GASTON MATEER, M. D., *Assistant in Medicine.*

A. B., Wooster University, 1911; M. D., Johns Hopkins University, 1918; *Assistant Resident Physician.*

The Johns Hopkins Hospital.

WILLIAM ALEXANDER MCINTOSH, M. D., *Assistant in Anatomy.*

A. B., Oberlin College, 1913, and A. M., 1915; M. D., Johns Hopkins University, 1919.

1027 N. Caroline St.

RALPH GARFIELD MILLS, M. D., *Instructor in Pathology.*

A. B., University of Illinois, 1903; M. D., Northwestern University, 1907; Professor of Pathology, Severance Union Medical College, Korea, 1913-18; *Assistant Resident Pathologist.*

The Johns Hopkins Hospital.

JOSEPH EARLE MOORE, M. D., *Assistant in Clinical Medicine.*

A. B., University of Kansas, 1914; M. D., Johns Hopkins University, 1916; *Assistant Dispensary Surgeon.*

ISRAEL WILLIAM NACHLAS, M. D., *Assistant in Clinical Orthopedic Surgery.*

A. B., Johns Hopkins University, 1914, and M. D., 1918; *Assistant Dispensary Surgeon.*

22 S. High St.

THOMAS MILTON RIVERS, M. D., *Instructor in Bacteriology.*

A. B., Emory University, 1909; M. D., Johns Hopkins University, 1915.

810 N. Broadway.

CHESTER EARL RUTHERFORD, *Assistant in Biometry and Vital Statistics, School of Hygiene and Public Health.*

1524 Ellamont St.

HORACE GENTRY STEWART, M. D., *Assistant in Pediatrics.*

S. B., Massachusetts Institute of Technology, 1914; M. D., Johns Hopkins University, 1918.

The Johns Hopkins Hospital.

ROBERT PARVIN STRICKLER, PH. D., *Instructor in Greek.*

A. B., West Virginia University, 1907; Rhodes Scholar, University of Oxford, 1907-10; Fellow, Johns Hopkins University, 1918-19, and Ph. D., 1919.

2124 N. Calvert St.

CHARLES COLEMAN THACH, JR., M. S., *Assistant in History and Political Science.*

S. B., Alabama Polytechnic Institute, 1912, and M. S., 1913.

2735 Maryland Av.

JOSEPH TRUEMAN THOMPSON, B. S. IN ENG., *Instructor in Civil Engineering.*

B. S. in Eng., Johns Hopkins University, 1917.

5209 York Rd.

REGINALD D. WEST, M. D., *Assistant in Clinical Ophthalmology.*

M. D., Baltimore Medical College, 1907; *Dispensary Ophthalmologist.*

405 N. Charles St.

HENRY STUART WILLIS, M. D., *Assistant in Medicine.*

A. B., University of North Carolina, 1914; M. D., Johns Hopkins University, 1919.

2022 Mt. Royal Ter.

ALAN CHURCHILL WOODS, M. D., *Instructor in Clinical Ophthalmology.*

A. B., Johns Hopkins University, 1910, and M. D., 1914; Assistant, Dept. of Research Medicine, University of Pennsylvania, 1915-19; *Assistant Dispensary Physician.*

842 Park Av.

WALTER PARKS BLISS, M. D., *Instructor in Medicine.*

A. B., Wesleyan University, 1909, and A. M., 1910; M. D., College of Physicians and Surgeons (Columbia University), 1916; Assistant Bacteriologist, Connecticut State Board of Health, 1910-1911; *Assistant Physician.*

2811 Chelsea Ter., Forest Park.

WILLIAM GEORGE BROMBACHER, A. M., *Instructor in Physics.*

A. B., Lake Forest College, 1915, and A. M., 1917.

2608 N. Calvert St

FELIX S. CABELLO, A. B., *Instructor in Spanish.*

A. B., University of Madrid, 1900, and Student of Law (three years).

2820 St. Paul St.

DAVID JUNE CARVER, A. M., *Research Assistant in Psychology.*

A. B., Richmond College, 1905, and A. M., 1906; Instructor in Goucher College, 1915-16.

1317 Linden Av.

JAMES ROBERT CASH, M. D., *Assistant in Pathology.*

A. B., University of Virginia, 1914, and A. M., 1915; M. D., Johns Hopkins University, 1919.

510 N. Broadway.

FRIEDMAN HOLMES CATHRALL, M. D., *Assistant in Obstetrics.*

S. B., Bucknell University, 1914; M. D., Johns Hopkins University, 1918; *Assistant Resident Obstetrician.*

The Johns Hopkins Hospital.

HARRY GEORGE CISIN, M. E., *Instructor in Electrical Engineering.*

M. E., Cornell University, 1914; U. S. Navy Steam Engineering School; Ensign, U. S. N.

3700 Hickory Av.

TOBIAS DANTZIG, L. ÈS S., *Instructor in Mathematics.*

L. ès S., University of Paris, 1909; Ph. D., University of Indiana, 1917; Instructor, University of Indiana, 1915-18, and Columbia University, 1918-19.

2327 N. Calvert St.

JEAN FIRKET, M. D., *Instructor in Anatomy.*

M. D., University of Liége, Belgium, 1914.

1119 N. Caroline St.

WILLIAM CARSON VON GLAHN, M. D., *Instructor in Pathology.*

S. B., Davidson College, 1911; M. D., Johns Hopkins University, 1915; *Resident Pathologist, Bay View Hospital.*

Bay View.

CARL ALFRED JACOBSON, PH. D., *Research Assistant in Chemistry.*

S. B., Carleton College, 1903; Ph. D., Johns Hopkins University, 1908; late Professor of Chemistry, University of Nevada.

627 N. Pulaski St.

JOHN MCGAVACK, JR., A. B., *Research Assistant in Chemistry.*

A. B., Hampden-Sidney College, 1913; Fellow, Johns Hopkins University, 1918-19.

Y. M. C. A.

JAY MCLEAN, M. D., *Assistant in Surgery.*

S. B., University of California, 1914; A. M., University of Pennsylvania, 1917, and Girvin Research Fellow, 1916-17; Le Conte Memorial Fellow, University of California, 1917-19; M. D., Johns Hopkins University, 1919.

1114 N. Calvert St.

RAY MARCH MERRILL, A. M., *Instructor in French.*

A. B., Williams College, 1905; A. M., University of California, 1909; sometime Head of Romance Languages in the Universities of Tennessee and South Dakota.

27 W. North Av

JOHN RODMAN PAUL, M. D., *Assistant in Pathology.*

A. B., Princeton University, 1915; M. D., Johns Hopkins University, 1919.

510 N. Broadway.

ARNOLD RICE RICH, M. D., *Assistant in Pathology.*

A. B. and A. M., University of Virginia, 1915; M. D., Johns Hopkins University, 1919.

510 N. Broadway.

HENRY NEWTON SHAW, M. D., *Instructor in Gynecology.*

A. B., Princeton University, 1907; M. D., Johns Hopkins University, 1913; *Resident Gynecologist.*

The Johns Hopkins Hospital.

LESLIE TILLOTSON WEBSTER, M. D., *Assistant in Pathology.*

A. B., Amherst College, 1915; M. D., Johns Hopkins University, 1919.

The Johns Hopkins Hospital.

HENRY THEODOR WENSEL, A. B., *Instructor in Physics.*

A. B., Washington University, 1917. 2635 N. Calvert St

CHARLES S. CRUMBLING, B. S., *Instructor in Chemistry.*

B. S., Albright College, 1911. 2751 Maryland Av

FLOYD W. REYNOLDS, M. S., *Instructor in Chemistry.*

B. S., Central Wesleyan College (Mo.), 1911; M. S., Central College (Mo.), 1912. Instructor, Morris Harvey College (W. Va.), 1914-18.

5141 Park Heights Av

HENRY LOBE STRAUS, B. S. IN ENG., *Instructor in Mechanical Engineering.*

B. S. in Eng., Johns Hopkins University, 1917.

Penhurst and Granada Avs.

AGNES LATIMER BACON, A. B., *Voluntary Assistant in Biometry and Vital Statistics, School of Hygiene and Public Health.*
A. B., Wellesley College, 1897.

CHARMIAN HOWELL, S. B., *Assistant in Biometry and Vital Statistics, School of Hygiene and Public Health.*
S. B., Oakcliffe College, 1903.

FRANK DAVIES CONROY, M. D., *Assistant in Medicine.*
A. B., University of North Carolina, 1914; M. D., Johns Hopkins University, 1918.
606 N. Broadway.

HOWARD B. CROSS, A. B., *Assistant in Pathology.*
A. B., University of Oklahoma, 1915.
823 N. Collington Av.

HENRY JACKSON, M. D., *Voluntary Assistant in Medicine.*
A. B., Harvard University, 1915, and M. D., 1919.
929 St. Paul St.

LESLIE NEWTON GAY, M. D., *Assistant in Medicine.*
Ph. B., Lafayette College, 1913; M. D., Johns Hopkins University, 1917.
704 Cathedral St.

WILLIAM SARGENT LADD, M. D., *Assistant in Medicine.*
M. D., College of Physicians and Surgeons, New York, 1915.
216 Ridgewood Rd.

FREDERICK WILBUR MEDAUGH, B. OF ENG., *Instructor in Civil Engineering.*
B. of Eng., Vanderbilt University, 1916.

AUBREY T. MUSSEN, M. D., *Instructor in Neuropathology.*
M. D. C. M., McGill University, 1900.
Johns Hopkins Hospital.

GEORGE RICHARD WILKINSON, M. D., *Assistant in Medicine.*
S. B., Davidson College, 1912; M. D., Johns Hopkins University, 1917.
City Hospital, Bay View.

ADDITIONAL INSTRUCTORS

COLLEGE COURSES FOR TEACHERS

HANS FROELICHER, PH. D. — *Art*
Professor of German Language and Literature and of Art Criticism in Goucher College.

KATHERINE J. GALLAGHER, PH. D. — *History*
Assistant Professor of History in Goucher College.

ANNETTE B. HOPKINS, PH. D. — *English Literature*
Professor of English in Goucher College.

ELLA LONN, PH. D. — *History*
Assistant Professor of History in Goucher College.

ERNEST P. KUHL, PH. D. — *English*
Professor of English in Goucher College.

JOSEPH S. SHEFLOE, PH. D. — *French*

GERALD MAX SPRING, A. M. — *French*
Instructor in French and Spanish in Goucher College.

ALFRED BREIT. — *Russian*

VICTOR DULAC, A. M. — *French*

NIGHT COURSES IN BUSINESS ECONOMICS

JOSHUA BERNHARDT, A. B. — *Americanization; Insurance*

WILLIAM M. BRITTAIN, A. M., J. D. — *Merchant Marine Administration*

J. WALLACE BRYAN, PH. D., C. P. A. — *Elementary Accounting*

E. LYELL GUNTS, A. B. — *Principles of Advertising*

EVERT C. PALMER. — *Principles of Salesmanship*

J. EARLE UHLER, A. B. — *Business English*

JOHN W. WALKER, A. B. — *Federal Income Tax Accounting*

NIGHT COURSES FOR TECHNICAL WORKERS

ALEXANDER E. BAUHAN, E. E. — *Electrical Engineering*

FRANK FAHM, JR. — *Civil Engineering*

NEIL E. GORDON, PH. D. — *Chemistry*
Professor of Physical Chemistry, Maryland State College.

H. HUNTLEY LLOYD, PH. D. — *Chemistry*
Professor of Chemistry, Goucher College.

HENRY C. LOUIS, M. E. — *Electrical Engineering*

SUMMER COURSES, 1919

(See *University Circular, July*, 1919)

LECTURERS, 1919-20

GEORGE HUNTINGTON WILLIAMS MEMORIAL LECTURESHIP

ALEXANDER FREDERICK WHYTE, M. A., of London England.
The Rise of British Labour. [Three lectures]

JAMES SCHOULER LECTURESHIP

PAUL SAMUEL REINSCH, PH. D., LL. D., formerly United States Minister to China.
Nationalism and Representative Government in China. [Five lectures.]

BEFORE THE FOLLOWING DEPARTMENTS OF INSTRUCTION

Engineering

WILLIAM WATTERS PAGON, A. B., S. B., M. C. E., of Baltimore.
Structural Design.

Greek

PROFESSOR PAUL SHOREY, PH. D., LL. D., LITT. D., of the University of Chicago.
Plato; Greek Philosophy.

Medicine

EDWARD PERKINS CARTER, M. D.
Medicine.

WILLIAM WEBBER FORD, M. D., of the School of Hygiene.
Hygiene.

EVANDER FRANCIS KELLEY, PHAR. D., of Baltimore.
Pharmacy.

DAVID ISRAEL MACHT, M. D., of Baltimore.
Pharmacology.

CHARLES WARDELL STILES, PH. D., D. SC., LL. D., of the United States Public Health Service.
Medical Zoölogy.

Political Science

WILLIAM FRANKLIN WILLOUGHBY, of Washington, D. C.
Public Financial Administration.

Terrestrial Magnetism

LOUIS A. BAUER, PH. D., D. SC., Director of the Department of Terrestrial Magnetism, Carnegie Institution.

JOHNSTON SCHOLARS

WILLIAM NORMAN BROWN, PH. D., *Henry E. Johnston Scholar.*

A. B., Johns Hopkins University, 1912, Fellow, 1913-15, and Ph. D., 1916; Harrison Research Fellow, University of Pennsylvania, 1916-19. *Sanskrit.*

3100 *N. Calvert St.*

JOHN MABRY MATHEWS, PH. D., *Henry E. Johnston Jr. Scholar.*

A. B., Johns Hopkins University, 1906, Fellow, 1908-09, and Ph. D., 1909; Associate Professor of Political Science, University of Illinois. *Political Science.*

1010 *N. Fulton Av.*

CHARLES V. TAYLOR, PH. D., *James Buchanan Johnston Scholar.*

A. B., Mt. Morris College, 1911; Ph. D., University of California, 1918; Instructor in Protozoology, University of California. *Zoölogy.*

Johns Hopkins Club.

GRADUATE STUDENTS

A. Department of Philosophy

FELLOWS BY COURTESY

JOSHUA BERNHARDT. Rochester, N. Y. 3028 *St. Paul St.*

A. B., University of Rochester, 1916; Fellow, Johns Hopkins University, 1917-19. *Political Economy, Political Science, and Hebrew.*

PAUL FREDERICK BLOOMHARDT. Altoona, Pa.

A. B., Pennsylvania College, 1909; Gettysburg Theological Seminary, 1912; Fellow, Johns Hopkins University, 1916-17, and Ph. D., 1918. *Semitic Languages.*

FRANK DIEHL. Waynesburg, Pa. 2611 *Maryland Av.*

Ph. B., University of Michigan, 1900; B. D., Union Theological Seminary (N. Y.), 1904; M. A., Columbia University, 1915; Professor of Philosophy and Biblical Literature, Waynesburg College. *Philosophy, Psychology and Political Science.*

RAYMOND PHILIP DOUGHERTY. Baltimore. *Goucher College.*

A. B., Lebanon Valley College, 1897, and A. M., 1903; B. D., Bonebrake Theological Seminary, 1910; Ph. D., Yale University, 1918; Professor of Biblical Literature, Goucher College. *Semitic Languages.*

EDITH MURIEL HARN. Baltimore. 4140 *Roland Av.*

A. B., Goucher College, 1915, and Fellow, 1915-17; Fellow, Johns Hopkins University, 1917-18, and Ph. D., 1919. *German Literature.*

FRANKLIN PLOTINOS JOHNSON. Osceola, Mo. 2743 *Maryland Av.*

A. B., University of Missouri, 1914, and A. M., 1915. *Classical Archaeology, Greek and Egyptology.*

DAVID CHARLES JONES. Shrewsbury, England. 1012 *Madison Av.*

B. Sc., University College, North Wales, 1916, and M. Sc., 1919. *Chemistry, Physical Chemistry, and Physics.*

LINUS WARD KLINE. Duluth, Minn. 5116 Centre St. (Govans.)

L. I., George Peabody College for Teachers, 1889; B. S., Harvard University, 1896; Ph. D., Clark University, 1898. *Education.*

RIICHIRO KOKETSU. Yaotsu-Machi, Japan.

Imperial University of Tokyo (Rigakushi, 1912); Instructor in the University of Kiushin. *Plant Physiology.*

2631 *N. Charles St.*

KARL SPENCER LASHLEY.

A. B., West Virginia University, 1910; M. S., University of Pittsburgh, 1911; Fellow, Johns Hopkins University, 1913-14, Ph. D., 1914, Bruce Fellow, 1914-15, Johnston Scholar, 1915-17. *Psychology.*

MAYNARD MAYO METCALF. Oberlin, O. 508 *Woodlawn Rd.*

A. B., Oberlin College, 1889; Fellow, Johns Hopkins University, 1892-93, Bruce Fellow, 1893, and Ph. D., 1893; Professor, Goucher College, 1893-1906; Professor of Zoölogy, Oberlin College. *Zoölogy.*

CLAIRE STRUBE. Baltimore. 3703 *Forest Pk. Av.*
A. B., Goucher College, 1916; Fellow, Johns Hopkins University, 1918-19, and Ph. D., 1919. *German Literature.*

TOSHIO TAKAMINE. Tokyo, Japan.
D. Sc., Imperial University of Tokyo, 1916; Assistant Professor in the Imperial University of Kyoto. *Physics.*

ELLEN THAYER. Baltimore. 2009 *Maryland Av.*
A. B., Bryn Mawr College, 1907. *French, Spanish, and Philosophy.*

LOUIS BRYANT TUCKERMAN. Washington, D. C. *Washington.*
A. B., Western Reserve University, 1901. *Physics, Applied Mathematics, and Mathematics.*

JOHN LINCK ULRICH. Washington, D. C. *Earl Court Apts.*
S. B., University of Pennsylvania, 1908; Fellow, Johns Hopkins University, 1912-13, and Ph. D., 1913; Instructor in Psychology, Catholic University. *Psychology.*

YOSHISUKE UYEDA. Onoda, Japan. 407 *W. Lanvale St.*
Imperial University of Kyoto (Kogakushi, 1914); Professor of Industrial Chemistry, Keijo Technical College, Korea. *Chemistry.*

(17)

UNIVERSITY FELLOWS

LAWRENCE HENRY BAKER. Baltimore Co. *Relay.*
A. B., Johns Hopkins University, 1917. *Greek, Latin, and Classical Archaeology.*

GREGORY BREIT. Baltimore. 1207 *Bolton St.*
A. B., Johns Hopkins University, 1918. *Physics.*

HARRY SHARP CANNON. Nicholasville, Ky. 2642 *N. Charles St.*
A. B., University of Kentucky, 1909, and A. M., 1911. *German Literature, Germanic Philology, and Sanskrit.*

ANABEL EUGENIA HARTMAN. Baltimore. 914 *N. Carrollton Av.*
A. B., Goucher College, 1908; A. M., Johns Hopkins University, 1919. *English and Philosophy.*

COLIN MACKENZIE MACKALL. Baltimore. 1325 *Linden Av.*
A. B., University of Virginia, 1909, and B. S. in Chemistry, 1910; M. S., George Washington University, 1913. *Chemistry, Physical Chemistry, and Mineralogy.*

RUTH NORTON. Columbus, O. 3123 *N. Calvert St.*
A. B., Lake Erie College, 1914; A. M., University of Wisconsin, 1915. *Sanskrit, Germanic Philology, and French.*

WILLIAM ERNEST SEIFRIZ. Washington, D. C. 6212 *York Rd.*
B. S., Johns Hopkins University, 1916. *Botany, Plant Physiology, and Zoölogy.*

JOEL HOWARD SWARTZ. Baltimore. *Windsor Mill Rd.*
A. B., Johns Hopkins University, 1915. *Geology.*

ANNA MARIE WHELAN. Baltimore. 1412 *W. Mulberry St.*
A. B., Goucher College, 1918. *Mathematics.*

BRUCE STOCKTON WILLIAMS. Roanoke, Va. *The Johns Hopkins Club.*
S. B., Virginia Polytechnic Institute, 1912, and M. S., 1914. *Political Science, History, and Political Economy.*

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ADAM T. BRUCE FELLOW

HOYT STILSON HOPKINS. Oberlin, O. 2742 *Maryland Av.*
A. B., Oberlin College, 1914, and A. M., 1915; Bruce Fellow, Johns Hopkins University, 1917-18. *Zoölogy, Chemistry, and Animal Physiology.*

WILLIAM S. RAYNER FELLOW

WILLIAM FOXWELL ALBRIGHT. Beach, Va. [Absent on Leave.]
A. B., Upper Iowa University, 1912; Fellow, Johns Hopkins University, 1913-14, Rayner Fellow, 1914-17, Ph. D., 1916, Instructor, 1916-17, Johnston Scholar, 1917-18. *Semitic Languages.*

EDMUND LAW ROGERS FELLOW

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A. B., Johns Hopkins University, 1916, and A. M., 1918. *Latin, Greek, and Sanskrit.*

DU PONT FELLOWS

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A. B., Earlham College, 1916. *Chemistry, Physical Chemistry, and Mathematics.*

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A. B., University of the South, 1914. *Chemistry, Physical Chemistry, and Mineralogy.*

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WILLIAM H. GRAFFLIN SCHOLAR

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A. B., Carson and Newman College, 1912; B. S., University of Chicago, 1915, and Ph. D., 1919. *Industrial Chemistry.*

OTHER GRADUATE STUDENTS IN PHILOSOPHY

ANN CATHERINE ARTHURS. Baltimore. *Greenway Apts.*
A. B., Bryn Mawr College, 1912. *History.*

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S. B., Richmond College, 1916. *Chemistry, Physical Chemistry, and Physics.*

EARLE HERBERT BARCLAY. Portsmouth, Va. 708 *N. Howard St.*
Chem. Eng., University of Virginia, 1916. *Chemistry and Physics.*

ROBERT LEE BATES. Kearneysville, W. Va. *Ft. McHenry.*
LL. B., West Virginia University, 1912, and A. B., 1915. *Education and Latin.*

LESLIE CARRINGTON BEARD, JR. Hagerstown. 1120 *Linden Av.*
A. B., Johns Hopkins University, 1919. *Chemistry, Physical Chemistry, and Bacteriology.*

EDITH ADELAIDE BECK. Punxsutawney, Pa. 2820 *N. Calvert St.*
A. B., Goucher College, 1904, and Alumnae Fellow, 1919-20; A. M., Columbia University, 1907. *Latin, Classical Archaeology, and Greek.*

KATHRYN LAURA BEHRENS. Baltimore. 3703 *Piedmont Av.*
A. B., Goucher College, 1917; A. M., Johns Hopkins University, 1919. *History.*

FREDERICK KELLER BELL. Baltimore. 821 *W. Lanvale St.*
A. B., Johns Hopkins University, 1916. *Chemistry, Physical Chemistry, and Mathematics.*

SISTER M. BENEDICTA (CARNEY). Mt. Washington. *Mt. St. Agnes.*
A. B., Mount St. Agnes College, 1916. *Latin.*

JOSEPH RUSSELL BRANHAM. Baltimore. 2200 *Eutaw Pl.*
S. B., Washington College, 1914. *Chemistry.*

WILLIAM GEORGE BROMBACHER. Chicago, Ill. 2608 *N. Calvert St.*
A. B., Lake Forest College, 1915, and A. M., 1917; U. S. Bureau of Standards; Instructor, Johns Hopkins University, 1919-20. *Physics and Mathematics.*

ARTHUR BENNETT BROWN. Charleston, S. C. 1220 *Linden Av.*
A. B., Charleston College, 1918. *Chemistry, Physics, and Mathematics.*

CLYDE ELMORE BURGEE. Frederick. 2627 *Maryland Av.*
A. B., Western Maryland College, 1914. *Political Economy, Political Science, and Experimental Psychology,*

FELIX SAMPER CABELLO. Baltimore. 2820 *St. Paul St.*
A. B., University of Madrid, 1900; Student of Law, Madrid and Valladolid Universities; Instructor, Johns Hopkins University, 1919-20. *Romance Languages.*

DAVID JUNE CARVER. Baltimore. 1317 *Linden Av.*
A. B., Richmond College, 1905, and A. M., 1906; Instructor, Goucher College, 1915-16; Research Assistant, Johns Hopkins University, 1919-20. *Psychology, Education, and Political Economy.*

SISTER M. CATHERINE (GURRY.) Mt. Washington. *Mt. St. Agnes.*
A. B., Mount St. Agnes College, 1916. *English.*

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B. S., Guilford College, 1913. *Chemistry, Physical Chemistry, and Mathematics.*

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A. B., Goucher College, 1919. *Romance Languages.*

ESTHER INEZ COLDWELL. Oxford, Kans. 315 *E. 31st St.*
A. B., Southwestern College, 1915. *Zoölogy.*

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A. B., Goucher College, 1915, and Fellow, 1915-16; Assistant, Johns Hopkins University, 1918-20. *Physiology, Physiological Chemistry, and Bacteriology.*

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B. S., Albright College, 1911; Instructor, Johns Hopkins University, 1919-20. *Chemistry and Education.*

LEVI YORGEY DAVIDHEISER. Collegeville, Pa. 1115 *Linden Av.*
A. B., Ursinus College, 1914. *Chemistry, Physical Chemistry, and Mathematics.*

RYLAND NEWMAN DEMPSTER. Baltimore. 817 *N. Fremont Av.*
B. S. in Eng., Johns Hopkins University, 1918. *Education.*

LULU MARJORIE DISOSWAY. New Bern, N. C. 1704 *E. Lanvale St.*
A. B., North Carolina State College for Women, 1918. *Chemistry, Biology, and Physics.*

CARROLL EDWARD DOBBIN. W. Jonesport, Me. 2735 *Maryland Av.*
A. B., Colby College, 1916. *Geology, Paleontology, and Chemistry.*

DAVID ROOP DOTTERER. New Windsor. *Y. M. C. A.*
A. B., Blue Ridge College, 1917. *Chemistry, Physics, and Bacteriology.*

JAMES BRIAN EBY. Baltimore. 2530 *N. Charles St.*
A. B., Johns Hopkins University, 1918. *Geology, Paleontology, and Physical Chemistry.*

ETHEL E. EDWARDS. Baltimore. 703 *Reservoir St.*
A. B., Goucher College, 1909. *Education and French.*

JOHN GRAHAM EDWARDS. Rushmore, Va. 3125 *N. Calvert St.*
B. A., and M. A., University of Virginia, 1915. *Zoölogy, Botany, and Physical Chemistry.*

WILLIAM SMITH ENGLISH, JR. Paulsboro, N. J. 1220 *Linden Av.*
B. S. in Chem. Eng., University of Pennsylvania, 1918. *Chemistry, Physical Chemistry, and Mineralogy.*

WALTER BLAINE FELGER. Canton, O. 3222 *Abell Av.*
A. B., University of Illinois, 1916. *Biology, Latin, and French.*

ELLEN BOYDEN FINLEY. Albany, N. Y. *Homewood Apts.*
A. B., Vassar College, 1916. *Biology and Physics.*

WILLIAM JUNKIN FLAGG. Christiansburg, Va. 1615 *Eutaw Pl.*
A. B., Washington and Lee University, 1913. *English, French, and Italian.*

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A. B., Indiana University, 1917. *Zoölogy, Chemistry, and Botany.*

MARY M. BELL FOLGER. Baltimore. 2731 *Greenmount Av.*
A. B., Oberlin College, 1912. *Zoölogy.*

MARGARET FRANCE. Baltimore. 219 *W. Lanvale St.*
A. B., Bryn Mawr College, 1919. *Chemistry and Physics.*

CARROLL EIKER FRENCH. Monmouth, Ill. 2706 *N. Charles St.*
A. B., Monmouth College, 1916. *Political Economy, Psychology, and Constitutional Law.*

SAMUEL RHEA GAMMON, JR. Rural Retreat, Va. 524 *E. 20th St.*
A. B., Washington and Lee University, 1911, and M. A., 1913. *History, Political Science, and Political Economy.*

SAMUEL WOOD GEISER. Independence, Ia. 2131 *Maryland Av.*
A. B., Upper Iowa University, 1914. *Zoölogy, Plant Physiology, and Physical Chemistry.*

AMY HOUCHIN GOLDSMITH. Oakland City, Ind. 2609 *Huntingdon Av.*
A. B., Indiana University, 1916. *Zoölogy.*

WILLIAM M. GOLDSMITH. Oakland City, Ind. 2609 *Huntingdon Av.*
B. P., Missouri State Normal School, 1909; A. B., Hillsdale (Mich.) College, 1913; A. M., Indiana University, 1916. *Zoölogy.*

PHILIP FREDERICK GOTTLING. Baltimore. 824 *Harlem Av.*
B. E., Johns Hopkins University, 1919. *Physics and Mathematics.*

HENRI JOSEPH GOUDREAU. Baltimore. *St. Joseph's Seminary.*
A. B., St. Mary's Seminary, 1915. *Chemistry and Biology.*

JACOB GRAPE. Baltimore. 333 *E. 22nd St.*
B. S., Johns Hopkins University, 1918. *Education.*

THOMAS BROOKS GRAVE. Baltimore. 106 *Wyndhurst Av.*
A. B., Johns Hopkins University, 1919. *Chemistry, Physical Chemistry, and Physiological Chemistry.*

FRANK VIVIAN GRIMM. Tarkio, Mo. 1120 *Linden Av.*
B. S., Tarkio College, 1918. *Chemistry and Physical Chemistry.*

GRACE MAYNARD HADLEY. Roselle, N. J. 2322 *N. Calvert St.*
A. B., Vassar College, 1917. *Classical Archaeology, Latin, and History.*

CLAYTON MORRIS HALL. Baltimore. *Ruxton.*
A. B., Johns Hopkins University, 1918. *Latin, Archaeology, and Greek.*

ALBERT ROBERTS HALLEY. Nashville, Tenn. 522 *N. Charles St.*
M. D., Vanderbilt University, 1905; B. S. and M. S., Vanderbilt University, 1913. *English, German Literature, and Germanic Philology.*

ALBERT LANPHIER HAMMOND. Baltimore. 2315 *Maryland Av.*
A. B., Johns Hopkins University, 1914, and Fellow, 1918-19. *Philosophy, English, and History.*

SAMUEL GREENE HAMMOND. Spartanburg, S. C. 1227 *Madison Av.*
A. B., Wofford College, 1919. *Chemistry, Physical Chemistry, and Physics.*

SYDNEY SPEIDEN HANDY. Annapolis. *Annapolis.*
A. B., Richmond College, 1893; A. M., Columbia University, 1919. *Education, Psychology, and English.*

S. JAMES HART. University, Va. 101 *E. 25th St.*.
A. B., University of Virginia, 1918, and A. M., 1919. *Political Science, Political Economy, and History.*

EDWARD PEARCE HAYES. Baltimore. 1003 *W. Lanvale St.*
A. B., Johns Hopkins University, 1916. *Education, Political Science, and Hebrew.*

OREGON BENSON HELFRICH. Baltimore. 1401 *Park Av.*
A. B., Johns Hopkins University, 1916, Fellow, 1918-19, and Ph. D., 1920 (February 23). *Chemistry, Physical Chemistry, and Physics.*

HARRY WROTH HETZLER. Baltimore. 2914 *Edmondson Av.*
Ph. B., Gallaudet College, 1919. *Chemistry.*

ALBERT BERTHOLD HOEN, JR. Baltimore. *Mt. Washington.*
A. B., Loyola College, 1918. *Geology, Mineralogy, and Chemistry.*

WILLIAM SAMUEL HOFFMAN. Baltimore. 627 *S. Broadway.*
A. B., Johns Hopkins University, 1918. *Chemistry, Physical Chemistry, and Mathematics.*

ELMER RHODES HOKE. Baltimore. 1220 *W. 36th St.*
A. B., Franklin and Marshall College, 1913, and A. M., 1914; B. D., Lancaster Theological Seminary, 1917. *Education, Philosophy, and Political Economy.*

ROY EDWARD HOKE. Baltimore. 1220 *W. 36th St.*
A. B., Franklin and Marshall College, 1916, and A. M., 1917. *Education, Philosophy, and Political Economy.*

EDWARD OTIS HOLMES, JR. Malden, Mass. 805 *Falls Rd. Terr.*
A. B., Harvard University, 1914, and A. M., 1916. *Chemistry, Physical Chemistry, and Physics.*

CHARLES HUNTINGTON HOWARD. Miami, Fla. *E. Oakley Av.*
S. B., Spring Hill College (Ala.). *Chemistry.*

WALTER MASSIE HUNDLEY. Farmville, Va. 2743 *Maryland Av.*
Virginia Military Institute, 1904; B. S., Virginia Polytechnic Institute, 1918. *Biology and Chemistry.*

YASUSHI IBARA. Uwajima, Japan. 891 *N. Howard St.*
A. B., Randolph-Macon College, 1917. *Zoölogy.*

WILLIAM LEE JUDEFIND. Baltimore. 3820 *Barrington Rd.*
A. B., Western Maryland College, 1915; Ph. D., Johns Hopkins University, 1920 (February 23). *Chemistry, Physical Chemistry, and Mineralogy.*

LUELLA EDITH KIEKHOFER. Freeport, Ill. 2115 *N. Charles St.*
Ph. B., Northwestern College, 1901, and Ph. M., 1904. *Romance Languages.*

JOHN FITCH KING. Youngstown, O. 2739 *Maryland Av.*
A. B., Oberlin College, 1917. *Chemistry, Physical Chemistry, and Sanitary Engineering.*

SIMON KLOSKY. Emmitsburg. 943 *N. Calvert St.*
A. B., Mt. St. Mary's College, 1914, and A. M., 1916. *Chemistry, Physical Chemistry, and Physics.*

RICHARD LEE KRAMER. Frankfort, Ind. *Y. M. C. A.*
A. B., Wabash College, 1913; Ph. D., Johns Hopkins University, 1920 (February 23). *Chemistry.*

LEWIS MONCURE LATANÉ. Richmond, Va. *Y. M. C. A.*
A. B., Richmond College, 1917. *Political Science, History, and Law.*

ALICE MARY DOANE LEACH. New York, N.Y. 2640 *N. Charles St.*
A. B., Earlham College, 1914; A. M., University of Illinois, 1917. *English, French, and Philosophy.*

MACEDWARD LEACH. New York, N.Y. 2640 *N. Charles St.*
A. B., University of Illinois, 1916, and A. M., 1917. *English, French, and Philosophy.*

FREDERIC COLLINS LEE. Melvale. *Melvale.*
A. B., Johns Hopkins University, 1912; A. M., University of Wisconsin, 1917. *Chemistry, Physical Chemistry, and Applied Electricity.*

FREDERICK WILLIAM LEE. Baltimore. 3033 *Guilford Av.*
M. E. and E. E., Cornell University, 1911; Assistant, Harvard University, 1911-13; Instructor, Johns Hopkins University, 1918-20. *Electrical Engineering, Physics, and Mathematics.*

WILLIAM LLOYD LINTON. Wellsburg, Va. 1019 *Linden Av.*
B. S., West Virginia University, 1915.
Chemistry, Physical Chemistry, and Physics.

PAUL LANGE LOTZ. Baltimore. 2135 *Mt. Holly St.*
B. S., Pennsylvania College, 1915. *Chemistry, Physical Chemistry, and Mineralogy.*

JOHANNES MATTERN. Baltimore. 2611 *Maryland Av.*
Universities of Munster and Bonn, 1904-7; Librarian in Charge, Bureau of Statistics, Department of Commerce and Labor, 1910-11; Assistant Librarian, Johns Hopkins University. *Political Science and Education.*

FREDERICK COLIN MCCAGHEY. Baltimore. 1937 *W. Lafayette Av.*
A. B., Delaware College, 1918. *French, Spanish, and Italian.*

JOHN MCGAVACK, JR. Waterford, Va. *Central Y.M.C.A.*
A. B., Hampden-Sidney College, 1913; Fellow, Johns Hopkins University, 1918-19, Ph. D., 1920 (February 23), and Research Assistant, 1919-20. *Chemistry, Physical Chemistry, and Physics.*

MORRIS ABEL MECHANIC. Baltimore. 1912 *E. Baltimore St.*
A. B., Johns Hopkins University, 1918. *Political Economy.*

ROBERT GRAFF MERRICK. Baltimore. 824 *Park Av.*
A. B., Johns Hopkins University, 1917. *Political Economy, Political Science, and Psychology.*

RAY MARCH MERRILL. Baltimore. 27 *W. North Av.*

A. B., Williams College, 1905; A. M., University of California, 1909; late Professor of Romance Languages, Universities of Tennessee and South Dakota; Instructor, Johns Hopkins University, 1919-20. *French, Spanish, and Italian.*

CHARLES HERMAN MIEGEL. Baltimore. 2401 *Frederick Av.*

A. B., Johns Hopkins University, 1918. *Political Science, Law, and History.*

GEORGE EDGAR MILLER. Gettysburg, Pa. 1511 *Linden Av.*

B. S., Pennsylvania College, 1914. *Chemistry, Physical Chemistry, and Mineralogy.*

KEWSIK MINN. Seoul, Korea. 2518 *Maryland Av.*

A. B., University of Cambridge, 1918. *Political Economy, Political Science, and History.*

CARLOS FEDERICO MORA. Guatemala City, C. A.

B. S., National Institute of Guatemala, 1909; M. D., Guatemala School of Medicine, 1916. *Psychiatry, Psychology, and Neurology.*

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Imperial University of Tokyo (Rigakushi, 1917). *Plant Physiology, Botany, and Zoology.*

FRANK VIGOR MORLEY. Baltimore. 2032 *Park Av.*

A. B., Johns Hopkins University, 1918. *Mathematics, Applied Mathematics, and Geology.*

TOMIO NAKANO. Sapporo, Japan. 1 *W. 27th St.*

Waseda University (Seigakushi), 1916. *Political Science, History, and Political Economy.*

LOUIS HASTINGS NAYLOR. Pikesville. *Pikesville.*

A. B., Johns Hopkins University, 1917. *French, Latin, and Spanish.*

BENJAMIN SIMON NEUHAUSEN. Baltimore. 722 *N. Wolfe St.*

A. B., Johns Hopkins University, 1918. *Chemistry, Physical Chemistry, and Bacteriology.*

CHARLES JOHN NEUNER. Baltimore. 1620 *Marshall St.*

A. B., Loyola College, 1911. *Chemistry, Physical Chemistry, and Geology.*

WILLIAM RUGGLES NORRIS. Rock Hill, S. C. 220 *W. Monument St.*

B. S., Davidson College, 1914. *Chemistry, Physical Chemistry, and Mathematics.*

BESSIE NOYES. Lincoln, Neb. 1237 *N. Caroline St.*

A. B., University of Nebraska, 1911, and A. M., 1914. *Zoölogy, Plant Physiology, and Botany.*

LAWRENCE HALL OPDYCKE. West New York, N. J. 1303 *N. Charles St.*

B. S., Rutgers College, 1913; A. M., Columbia University, 1916. *Chemistry, Physics, and Mathematics.*

GEORGE DAVID PALMER, JR. Helena, Ark. 813 *N. Howard St.*

B. S., Clemson College, 1919. *Chemistry.*

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* Died February 8, 1920.

HUGH KLEMME PARKER. Fayette, Iowa. *Y. M. C. A.*
A. B., Upper Iowa University, 1916. *Chemistry, Physical Chemistry, and Mathematics.*

GRATTAN PAYNE. Charlottesville, Va. 2735 *Maryland Av.*
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B. S., University of Georgia, 1916. *Botany, Plant Physiology, and Zoölogy.*

ROSALIE ALBERT RAYNER. Baltimore. 1814 *Eutaw Place.*
A. B., Vassar College, 1919. *Psychology, Psychiatry, and Physiology.*

BRUCE HAMPTON REDDITT. Columbia, La. 2620 *Maryland Av.*
A. B., Randolph-Macon College, 1910. *Mathematics.*

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B. S., Central Wesleyan College (Mo.), 1911; M. S., Central College (Mo.), 1912; Instructor, Morris Harvey College (W. Va.), 1914-18; Instructor, Johns Hopkins University, 1919-20. *Chemistry.*

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A. B., Johns Hopkins University, 1915, and A. M., 1918. *Political Science, History, and Law.*

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Royal Polytechnicum, Dresden, 1913-15; B. S., Harvard University, 1917. *Psychology, Psychiatry, and Physiology.*

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A. B., Princeton University, 1915. *Classical Archaeology, Greek, and Latin.*

MIRIAM SANDERS. Derry Village, N. H. *Lutherville.*
A. B., Radcliffe College, 1920. *Chemistry, Mathematics, and Physical Chemistry.*

GOTTLIEB SCHAENZLIN. Botkins, O. 1637 *N. Caroline St.*
A. B., Baldwin-Wallace College, 1905. *Sanskrit.*

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A. B., Johns Hopkins University, 1919. *Political Science, Political Economy, and History.*

ALPHONSE M. SCHWITALLA. St. Louis, Mo. *Loyola College.*
A. B., St. Louis University, 1906, and A. M., 1907. *Zoölogy, Plant Physiology, and Chemistry.*

MARK HOWARD SECRIST. Hanover, Pa. 519 *E. 20th St.*
A. B., Pennsylvania College, 1918. *Geology.*

JAMES EDWIN SHARP. Prairie Grove, Ark. 1320 *Linden Av.*
B. S., University of Arkansas, 1917. *Chemistry, Physical Chemistry, and Mineralogy.*

JAMES DONALDSON SISLER. Morgantown, W. Va. 2712 *Oak St.*
A. B., West Virginia University, 1919. *Geology and Chemistry.*

GEORGE WILLIAM SMALL. Mt. Washington. *The Terraces.*
A. B., University of Tennessee, 1916. *English, French, and German.*

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A. B., Johns Hopkins University, 1913. *Hebrew, Assyrian, and History of the Ancient East.*

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A. B., Washington and Lee University, 1912, and M. A., 1913. *History, Political Science, and Political Economy.*

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A. B., Leland Stanford University, 1903, and A. M., 1906. *Zoölogy.*

EDMUND MAUTE SPIEKER. Baltimore. 915 *Edmondson Av.*
A. B., Johns Hopkins University, 1916. *Geology, Paleontology, and Chemistry.*

FLORA DOBLER SUTTON. Baltimore. 1735 *Bolton St.*
A. B., Goucher College, 1912. *Mathematics and Education.*

YASUO TAKETOMI. Hakodate, Japan. 617 *E. 33d St.*
B. Pol. Sci., Waseda University, 1919. *Political Economy.*

CHARLES COLEMAN THACH, JR. Auburn, Ala. 2735 *Maryland Av.*
S. B., Alabama Polytechnic Institute, 1912, and M. S., 1913; Fellow, Johns Hopkins University, 1917-18, and Assistant, 1919-20. *History, Political Science, and Political Economy.*

JOHN ALBERT TILLEMA. Morrison, Ill. 317 *E. 31st St.*
A. B., Hope College, 1914. *Political Science, History, and Political Economy.*

JOHN PAUL VISSCHER. Holland, Mich. 2742 *Maryland Av.*
A. B., Hope College, 1917. *Zoölogy, Botany, and Protozoölogy.*

MADELEINE PHILBRICK WEEKS. Plymouth, N. H. 215 *E. 33d St.*
A. B., Smith College, 1915. *History and Political Science.*

HENRY THEODOR WENSEL. Washington, D. C. 2635 *N. Calvert St.*
A. B., Washington University, 1917; U. S. Bureau of Standards; Instructor, Johns Hopkins University, 1919-20. *Physics and Mathematics.*

WARREN REED WEST. Rutledge, Tenn. 304 *D. St., N. E.*
A. B., George Washington University, 1918. *History.*

REBEKAH JANE WHALEN. Baltimore. 1502 *Harlem Av.*
A. B., Goucher College, 1917. *Latin, Archaeology, and Greek.*

WILLARD ALEXANDER WHITESELL. Dunkirk. 2735 *Maryland Av.*
A. B., Randolph-Macon College, 1918. *Chemistry, Physical Chemistry, and Physics.*

THOMAS COBB WHITNER, JR. Atlanta, Ga. 1203 *Madison Av.*
B. S., Georgia School of Technology, 1916. *Chemistry, Physical Chemistry, and Mathematics.*

CAROL VAN BUREN WIGHT. Chatham, Mass. 2215 *N. Charles St.*
A. B., Johns Hopkins University, 1919. *Latin and Greek.*

ADELE MADELEINE WILDES. Edgewood, R. I. *Calvert Ct. Apts.*
A. B., Brown University, 1916, and A. M., 1917. *Classical Archaeology.*

HENRY STUART WILLIS. High Point, N. C. 2022 *Mt. Royal Terr.*
A. B., University of North Carolina, 1914; M. D., Johns Hopkins University, 1919, and Assistant, 1919-20. *Zoology.*

WILLIAM KIRK WOOLERY. Shepherdstown, W. Va. 2743 *Maryland Av.*
A. B., Bethany College (W. Va.), 1908, and B. Pd., 1909; B. S., University of California, 1915. *History, Political Science, and Political Economy.*

CHARLES THOMAS ZAHN. Westminster, Md. 114 *E. 25th St.*
B. E., Johns Hopkins University, 1919. *Physics and Mathematics.*

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ATTENDANTS ON SINGLE COURSES

CHARLES ROY ANGELL. Baltimore. 1910 *W. Saratoga St.*
A. B., Richmond College, 1913; A. M., University of Pennsylvania, 1918. *Political Economy.*

HELEN S. W. ATHEY (Mrs.). Baltimore. 100 *S. Patts'n Pk. Av.*
French.

HELEN ATWOOD. Baltimore. 2809 *St. Paul St.*
A. B., Goucher College, 1916. *French.*

VOLA PRICE BARTON. Mt. Washington Hghts. *Linwood Av.*
A. B., Goucher College, 1915; A. M., Mount Holyoke College, 1917. *Physics.*

LORETTA MARY BOLLMAN. Baltimore. 236 *W. Woodland Av.*
A. B., Goucher College, 1909. *Classical Archaeology.*

AGNES EMILIE BUCHHOLZ. Baltimore. 748 *Reservoir St.*
B. S., Johns Hopkins University, 1917. *German.*

EVA A. W. BRYNE. Germantown, Pa. 13 *E. Read St.*
A. B., Bryn Mawr College, 1916, and A. M., 1917. *English.*

MAYNARD ARTHUR CLEMENS. Baltimore. 2044 *Kennedy Av.*
B. S., Teachers' College, Columbia University, 1913. *Education.*

CLARA WHITNEY CRANE. Bridgewater, Mass. 609 *Lennox St.*
A. B., Radcliffe College, 1914; A. M., Cornell University, 1918. *English.*

ESTHER JOSEPHINE CROOKS. Ravenswood, W. Va. *Lutherville.*
Ph. B., Denison University, 1909. *Romance Languages.*

HELMUT CHARLES DIEHL. New Haven, Conn. 2503 *Maryland Av.*
B. S., Michigan Agricultural College, 1918. *Plant Physiology.*

ELEANOR B. GEORGE DUFFY (Mrs.). Baltimore. 110 *W. North Av.*
French Literature.

VICTOR DULAC. Baltimore. *University Apts.*
A. B., George Washington University, 1915; A. M., Johns Hopkins University, 1918. *French, Spanish, and Italian.*

MARY OLIVE EBAUGH. Reisterstown. 2119 *Linden Av.*
A. B., Goucher College, 1907. *Education.*

JOAN DOROTHY ELIASBERG. Baltimore. *Emerson Apts.*
A. B., Goucher College, 1919. *Philosophy.*

JAMES BANCROFT EPPES. Annapolis. *U. S. Naval Acad.*
B. S., University of Georgia, 1907. *Mathematics.*

FRANCIS MITCHELL FROELICHER. Hamilton. 303 *Tramore Rd.*
A. B., Haverford College, 1913. *Education.*

HARRY HAMILTON GAVER. Annapolis. *U. S. Naval Acad.*
A. B., Randolph-Macon College, 1907; A. M., University of Virginia, 1912. *Mathematics.*

GEORGE HUSSEY GIFFORD. Annapolis. *U. S. Naval Acad.*
A. B., Harvard University, 1913; Balliol College, Oxford, 1913-16. *French Literature.*

CHARLES FREDERICK GLOTH. Baltimore. 410 *St. Paul St.*
A. B., Yale University, 1897. *Geology.*

EUNICE RATHBONE GODDARD. Baltimore. 13 *E. Read St.*
A. B., Mount Holyoke College, 1903. *Romance Languages.*

CAROLINE ELISE GROTE. Baltimore. 3202 *Vickers Rd.*
B. S., Johns Hopkins University, 1919. *Education.*

EDWARD HAMME. Reisterstown. *Reisterstown.*
A. B., Pennsylvania College, 1909; B. D., Central Seminary of Reformed Church, Dayton, Ohio, 1912. *Education and Philosophy.*

MILDRED HARDENBROOK. Valatie, N. Y. 208 *W. 27th St.*
A. B., Vassar College, 1908, and A. M., 1909. *Greek and Archaeology.*

MARY ELLA HARRISON. Baltimore. 1400 *Eutaw Pl.*
Ph. B., University of Chicago, 1910; A. M., Johns Hopkins University, 1919. *Classical Archaeology.*

EMILY E. HOWSON. Philadelphia, Pa. 306 *Woodlawn Rd.*
A. B., Bryn Mawr College, 1910, and A. M., 1912. *Physics.*

ALVEY MICHAEL ISANOGLE. Frederick Co. *Thurmont.*
A. B., St. John's College, 1898. *Education and History.*

LEWIS VAN HAGEN JUDSON. Washington, D. C. Washington.
A. B., Clark College, 1916; A. M., Clark University, 1917. *Physics.*

ALBERT HENRY KLEFFMAN. Baltimore. 104 *S. Fulton Av.*
A. B., Lebanon Valley College, 1916; A. M., Princeton University, 1919. *Philosophy.*

ELNORA MARGARET LAWTON. Baltimore. 2636 *Maryland Av.*
A. B., Goucher College, 1916. *English.*

FREDERICA FULTON LESER. Baltimore. *Albion Hotel.*
Sanskrit and Comparative Philology.

HELEN EASTMAN MANNING. Elmira, N. Y. 1 *E. 21st St.*
A. B., Elmira College, 1912; A. M., Columbia University, 1916. *French.*

STELLA AGNES MCCARTY. Baltimore. 3620 *Fairview Av.*
A. B., Goucher College, 1892; A. M., Columbia University, 1915. *Psychology.*

ELIZABETH MOORE MCKINNEY (Mrs.). Baltimore. 1225 *Madison Av.*
S. B., Wilson College, 1895; M. D., Johns Hopkins University, 1901. *Spanish.*

JACOB E. METZGER. College Park. *College Park.*
B. S., Pennsylvania State College, 1911. *Plant Physiology.*

*EDGAR A. MORGAN. Jewett, Ill. 2827 *Walbrook Av.*
A. B., University of Illinois, 1906. *Education.*

ELEANOR J. PELLET. Baltimore. *Goucher Coll.*
Ph. B., University of Chicago, 1917, and M. A., 1919. *French Literature.*

WALTER C. PRESTON. Lewisburg, W. Va. 210 *W. Madison St.*
A. B., Washington and Lee University, 1915. *Chemistry.*

KATHARINE GAUL RUSK. Baltimore. 110 *Elmwood Rd.*
A. B., Smith College, 1907. *English.*

EVA MABEL SADLER. Newton Centre, Mass. *Lutherville.*
A. B., Boston University, 1917; A. M., Radcliffe College, 1919. *Old French.*

JAMES BLAINE SCARBOROUGH. Annapolis. *U. S. Naval Acad.*
A. B., University of North Carolina, 1913, and A. M., 1914. *Mathematics.*

HARRY SCHAD. Baltimore. 1636 *John St.*
B. S., Johns Hopkins University, 1917. *Education.*

FLORENCE SCHUBERT. Baltimore. 1256 *N. Broadway.*
A. B., Notre Dame College (Md.), 1916. *Philosophy, Psychology, and Psychiatry.*

HELEN SHERBERT. Baltimore. 1800 *N. Calvert St.*
A. B., Goucher College, 1916. *Old Testament Literature and History.*

CLARENCE ALBERT SHOOK. Annapolis. *U. S. Naval Acad.*
A. B., Western Reserve University, 1916; A. M., Harvard University, 1918. *Mathematics.*

MINNIE CECILIA SMITH. Baltimore. 402 *N. Carrollton Av.*
Botany.

SAMUEL WILLIAM SPARKS. Baltimore. 4505 *Maine Av.*
A. B., Washington College, 1909. *Education.*

MORRIS EDMUND SPEARE. Annapolis. 2625 *St. Paul St.*
A. B., Harvard University, 1908, and A. M., 1909. *English and French.*

GEORGE ALEXANDER STEELE. Baltimore. 1324 *Eutaw Place.*
A. B., St. John's College, 1884, and A. M., 1887. *Education.*

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* Died February 5, 1920.

WINIFRED STURDEVANT. Baltimore. 818 *W. 40th St.*
A. B., Bryn Mawr College, 1911; Fellow, Johns Hopkins University, 1917-18. *French, Spanish, and Italian.*

LOUISE E. THALWITZER. Baltimore. 3405 *Piedmont Av.*
French Literature.

FRANK THONE. Des Moines, Ia. 2724 *Maryland Av.*
B. S., Grinnell College (Iowa), 1915. *Plant Physiology.*

FREDERICK PATTANGALL UPTON. Washington, D. C. *Washington.*
B. S., Massachusetts Institute of Technology, 1916. *Physics.*

PAUL SMITH WAGNER. Hershey, Pa. 1909 *Linden Av.*
A. B., Lebanon Valley College, 1917. *Mathematics.*

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B. MEDICAL DEPARTMENT

CANDIDATES FOR THE DEGREE OF DOCTOR OF MEDICINE

Fourth Year

WILMAR MASON ALLEN. Upper Marlboro. 2002 *Eutaw Pl.*
A. B., Haverford College, 1916.

RIDGELY WATERS BAER. Baltimore. *Roland Park.*
A. B., Johns Hopkins University, 1916.

GARLAND HOWARD BAILEY. Giatto, W. Va. 1622 *E. Biddle St.*
S. B., West Virginia University, 1915; Graduate Student, Harvard, 1915-16.

ELI JEFFERSON BROWDER. Harrison, Mont. 1338 *N. Eden St.*
A. B., Emory and Henry College, 1915.

PAUL E. BROWN. Sparta, Ga. 1022 *N. Broadway.*
S. B., Emory University, 1915.

FLORENCE A. BROWNE. Bay City, Mich. 305 *N. Broadway.*
A. B., Vassar College, 1908; Medical Student, University of Michigan, 1916-18.

JOHN GILLETT BURNS. Cuero, Tex. 1526 *E. Biddle St.*
A. B., Southwestern University, 1916.

WILLIAM COURETTE CALDWELL. Athens, La. 606 *N. Broadway.*
A. B., Louisiana State University, 1911, and M. S., 1912.

GEORGE LUNSFORD CARRINGTON. Durham, N. C.
A. B., University of North Carolina, 1913; A. M., Trinity College, 1916; Medical Student, University of North Carolina, 1916-18.

FRED GAY CARTER. Rio Vista, Va. 1330 *N. Caroline St.*
A. B., University of Wisconsin, 1911; Medical Student, *ibid*, 1915-16 and 1917-18.

ERNEST JOSEPH CAULFIELD. Hartford, Conn. 520 *N. Bdway.*
S. B., Trinity College (Conn.), 1916.

HAZEN GRAVES CHAMBERLIN. Ischua, N. Y. 1226 *N. Broadway.*
A. B., Pomona College, 1916.

SHEO NAN CHEER. Nanking, China. 1619 *E. Preston St.*
A. B., University of Nanking, 1917; Graduate Student, Johns Hopkins University, 1916-17; Medical Student, Harvard Medical School of China, 1914-16.

ELEANOR CLARY. Worcester, Mass. 305 *N. Broadway.*
A. B., Vassar College, 1914; Graduate Student, Radcliffe College, 1915-1916.

PAUL CRENSHAW COLONNA. Richmond, Va. *Phipps Psy. Clinic.*
A. B., Randolph-Macon College, 1915; Medical Student, Medical College of Virginia, 1916-17.

GUY NELSON CROMWELL. Anne Arundel Co. *Brooklyn.*
A. B., Johns Hopkins University, 1916.

HENRY LAURAN DARNER. Hagerstown. 1519 *N. Broadway.*
A. B., Western Maryland College, 1916.

DANIEL CADY DARROW. Fargo, N. D. 606 *N. Broadway.*
A. B., Cornell University, 1916.

EDWARD CLARK DAVIDSON. Bellevue, Pa. 510 *N. Broadway.*
S. B., Harvard University, 1916.

PERCY BERNARD DAVIDSON. Boston, Mass. 520 *N. Broadway.*
A. B., Harvard University, 1916.

HERBERT HAYWOOD DAVIS. Omaha, Nebr. 510 *N. Broadway.*
A. B., Cornell University, 1917; Medical Student, *ibid.*, 1916-17.

ATALA SCUDDER DAVISON. Brooklyn, N. Y. 1720 *E. Madison St.*
A. B., Bryn Mawr College, 1915.

FRANCIS RAYMOND DIEUAIDE. New York, N. Y. 1812 *N. Charles St.*
A. B., College of the City of New York, 1913; Graduate Student, Columbia University, 1915-1916; Medical Student, *ibid.*, 1916-17.

HELENE DOETSCH. Balto. 14 *Merrymount Rd., R. P.*
A. B., Goucher College, 1916

ROGER GAMBLE DOUGHTY. Augusta, Ga. 518 *N. Broadway.*
S. B., University of Georgia, 1916.

VALCOULON LEMOYNE ELLICOTT. Baltimore Co. *Melvale.*
S. B., Massachusetts Institute of Technology, 1916.

AUGUSTUS ROI FELTY. Hartford, Conn. 606 *N. Bdway.*
A. B., Yale University, 1916.

FRANK RODOLPH FORD. Fairfax, Va. 1511 *Bolton St.*
A. B., Johns Hopkins University, 1915.

JAMES CHARLES FOX, JR. Middletown, Conn. 518 *N. Bdway.*
A. B., Williams College, 1916.

ROBERT ELMER FRICKE. Baltimore. 2422 *N. Calvert St.*
A. B., Johns Hopkins University, 1916.

JONAS STEIN FRIEDENWALD. Baltimore. 1029 *Madison Av*
A. B., Johns Hopkins University, 1916.

WILLIAM HARRIS FUNK. South Bend, Ind. 518 *N. Bdway.*
A. B., Williams College, 1916.

CARL GAINES. Baltimore. *Towson.*
A. B., Mercer University, 1913.

MANUEL GUTMAN GICHNER. Baltimore. 1516 *Madison Av.*
A. B., Johns Hopkins University, 1916.

*CARL HARTLEY GREENE. Columbia, Mo. 520 *N. Broadway.*
A. B., University of Missouri, 1914; Ph. D., Yale University, 1917; Medical student, *ibid.*, 1913-1915; Graduate student, Yale University, 1915-1917.

ELMER PAUL GREENAWALT. Springfield, O. 813 *N. Broadway.*
A. B., Wittenberg College, 1915, and A. M., 1916.

HARRY HUMPHREY HAGGART. Fargo, N. D. 1012 *N. Broadway.*
A. B., Fargo College, 1914; Graduate Student, University of Minnesota, 1915-16; Medical Student, *ibid*, 1916-18.

**ROBERT MCCULLEY HALBACH. Lancaster, Pa. 125 *N. Broadway.*
S. B., Franklin and Marshall College, 1915, and M. S. 1916.

FRANKLIN MCCUE HANGER, JR. Staunton, Va. 510 *N. Broadway.*
S. B., University of Virginia, 1916.

HELEN HARRINGTON. Denver, Colo. 1725 *E. Fairmount Av.*
A. B., Wellesley College, 1902; A. M., University of Denver, 1915.

CHARLES LESTER HARTSOCK. Cumberland. 1727 *N. Bdway.*
S. B., St. John's College, 1916.

HARRY MORTON HAWKINS. Pittsburgh, Pa. 1228 *N. Eden St.*
A. B., Washington and Jefferson College, 1916.

RAYMOND WILLARD HAWKINS. Rochester, N. Y. 606 *N. Bdway.*
S. B., University of Rochester, 1916.

ARTHUR JOSEPH HEARN. Hudson, N. Y. 1525 *N. Bdway.*
Ph. B., Yale University, 1916.

LEIGHT MONROE HIGGINS. Athens, O. 606 *N. Broadway.*
A. B., Ohio University, 1916.

EMMETT HOLT. New York, N. Y. 510 *N. Broadway.*
A. B., Harvard University, 1916.

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* Entered Feb. 1, 1919.
** Sch. of Hygiene.

PHILIP BIRD HOPKINS. Baltimore. 234 *Laurens St.*
A. B., Randolph-Macon College, 1913; Summer School, Johns Hopkins University, 1914 and 1915.

ROY GRAHAM HOSKINS. Washington, D. C. 814 *N. Bdway.*
A. B. and A. M., University of Kansas, 1905 and 1916; Ph. D., Harvard Univ., 1910; Med. Student, Univ. of Kansas, 1907-08, and Ohio State Univ., 1911-13.

FRANKLIN PARADISE JOHNSON. Columbia, Mo. 1508 *John St.*
A. B., University of Missouri, 1908; A. M., Harvard University, 1910, and Ph. D., 1912; Medical Student, University of Missouri, 1906-08.

WILLIAM OSCAR JOHNSON. Winchester, Ky. 806 *N. Bdway.*
S. B., Kentucky Wesleyan College, 1915; Graduate Student, Johns Hopkins University, 1915-16.

RALPH CHARLES KAHLE. Burlington, Ia. 716 *N. Bdway.*
A. B., State University of Iowa, 1916.

ROBERT PHELPS KENNEDY. Buffalo, N. Y. 518 *N. Bdway.*
A. B., Cornell University, 1912; Summer Session, Freiburg, 1911.

HOWARD MILTON KERN. Memphis, Tenn. 1302 *N. Broadway.*
A. B., University of Virginia, 1917; Medical Student, *ibid*, 1916-18.

HALFORD BENSON KNEALE. Anderson, Ind. 606 *N. Bdway.*
A. B., DePauw University, 1915.

GUY WHITMAN LEADBETTER. S. Lincoln, Me. 606 *N. Bdway.*
A. B., Bowdoin College, 1916.

CHARLES ALEC LEVIN. Norwich, Conn. 606 *N. Bdway.*
A. B., Brown University, 1916.

BERTRAM DAVID LEWIN. San Antonio, Tex. 1318 *N. Bdway.*
A. B., University of Texas, 1916.

JACOB LIVINGSTON. Dover, N. J. 1620 *E. Biddle St.*
S. B., Lafayette College, 1916.

GEORGE MARSHALL LYON. Huntington, W. Va. 518 *N. Bdway*
S. B., Denison University, 1916.

CRUTCHER MCCLURE. Nashville, Tenn. 716 *N. Bdway.*
S. B., Vanderbilt University, 1916; Medical Student, *ibid*, 1916-18.

CHARLES CLIFTON MCCOY. East Liverpool, O. 935 *N. Calvert St.*
S. B., Princeton University, 1915.

ARCHIBALD MURDOCH MCKEITHEN. Cameron, N. C. 813 *N. Broadway.*
S. B., Davidson College, 1916.

CLYDE MCNEILL. Edgemore, S. C. 520 *N. Bdway.*
A. B., Erskine College, 1915; S. B. and A. M., University of South Carolina, 1916.

JOSEPH MORTIMER MARCUS. Glens Falls, N. Y. 520 *N. Bdway.*
Ph. B., Yale University, 1916.

LAY MARTIN. Roland Park. 510 *N. Broadway.*
S. B., Princeton University, 1915.

WILLIAM CURRY MARTIN. Lexington, Ky. 806 *N. Bdway.*
A. B., University of Kentucky, 1916.

FITZ RANDOLPH MOORE. Lisbon, O. 1525 *N. Broadway.*
A. B., Westminster College (Pa.), 1916.

ELIZABETH GRACE NICHOLS. Williamsburg, Mass. 3409 *Guilford Ter.*
A. B., Vassar College, 1915.

NORMAN CLYDE NICHOLSON. Baltimore. 1007 *N. Caroline St.*
A. B., Johns Hopkins University, 1915.

LILLIAN LYDIA NYE. Minneapolis, Minn. 527 *N. Wolfe St.*
A. B., University of Minnesota, 1909, and A. M., 1910; Medical Student, Yale University, 1916-18.

DANIEL PATRICK O'BRIEN. Torrington, Conn.
Ph. B., Yale University, 1915; Medical Student, *ibid*, 1916-17.

ROBERT WESLEY PARR. Marietta, O. 120 *Jackson Pl.*
A. B., Marietta College, 1916.

SUSANNE RING PARSONS. Lincoln, Nebr. 1237 *N. Caroline St.*
S. B., University of Nebraska, 1914, A. M., 1915, and Ph. D., 1917.

WINTHROP MORGAN PHELPS. Plainfield, N. J. 1016 *N. Bdway.*
S. B., Princeton University, 1916.

RENA KATE PIPER. Racine, Wis. 104 *Jackson Pl.*
S. B., University of Wisconsin, 1916.

HARRY WILLIAM PLATH. Davenport, N. D. 716 *N. Bdway.*
S. B., Fargo College, 1916.

ARTHUR CHIPMAN PRIMROSE. Baltimore. 518 *N. Broadway.*
A. B., Johns Hopkins University, 1916.

FRANK H. PURCELL. Detroit, Mich. 510 *N. Broadway.*
A. B., University of Michigan, 1916.

FREDERICK LEET REICHERT. Lancaster, Pa. 1022 *N. Bdway.*
Ph. B., Franklin and Marshall College, 1916.

MARY TORREY ROUDEBUSH. Memphis, Tenn. 512 *N. Broadway.*
S. B., University of Wisconsin, 1918; Medical Student, *ibid*, 1913-14 and 1917-18.

JOHN AUGUST SCHEURICH. Baltimore. 2201 *Harford Av.*
A. B., Loyola College, 1916.

JOHN ARMSTRONG SHACKELFORD. Martinville, Va. 510 *N. Bdway.*
S. B., Hampden-Sidney College, 1916.

HUGH PERCY SHELLABEAR. Baltimore. 2512 *Guilford Av.*
A. B., Ohio Wesleyan University, 1912, and A. M., 1913.

EDWARD PIERCE LENTZ SHOPE. Harrisburg, Pa. 808 *N. Bdway.*
A. B., Dickinson College, 1916.

ROGER SHORE SIDDALL. Sumter, S. C. 606 *N. Broadway.*
A. B., University of North Carolina, 1916; Medical Student, *ibid*, 1916-18.

HERBERT CLARE SOULE, JR. Rochester, N. Y. 606 *N. Bdway.*
S. B., University of Rochester, 1916.

GEORGE SIDNEY SPRAGUE. Lexington, Ky. 1213 *W. Fayette St.*
S. B., University of Kentucky, 1916.

MARGERY MAY STAUFFER. Winnipeg, Man. *Y. W. C. A.*
A. B., University of Toronto, 1917; Medical Student, *ibid.*, 1915-17.

DAVID STEEL. Auburn, R. I. 606 *N. Bdway.*
Ph. B., Brown University, 1916.

EMERSON LAW STONE. Philmont, N. Y. 518 *N. Bdway.*
A. B., Williams College, 1916.

ARTHUR GEORGE SULLIVAN. Northampton, Mass. 1022 *N. Bdway.*
A. B., Catholic University of America, 1916.

NORMAN E. TANNENBAUM. Crawfordsville, Ind. 1612 *E. Biddle St.*
A. B., Wabash College, 1915, and A. M., 1916.

MARGARET TAYLOR. Canandaigua, N. Y. 101 *Jackson Pl.*
A. B., Vassar College, 1915.

RICHARD WESLEY TELINDE. Waupun, Wis. 1830 *N. Bdway.*
A. B., University of Wisconsin, 1917; Medical Student, *ibid*, 1916-18.

THOMAS HERBERT THOMASON. Huntsville, Tex. 518 *N. Bdway.*
A. B., University of Texas, 1916.

CLARA MABEL THOMPSON. Providence, R. I. 104 *Jackson Pl*
A. B., Brown University, 1916.

EUGENE NELSON VANDYKE. Renova, Pa. 614 *N. Broadway.*
S. B., Princeton University, 1916.

LEWIS CLARK WAGNER. Nicholasville, Ky. 1612 *E. Biddle St.*
A. B., Georgetown College (Ky.), 1916.

ALGERNON STORRS WARINNER. Richmond, Va. 1022 *N. Bdway.*
A. B., Hampden-Sidney College, 1914; Summer School, Johns Hopkins University, 1915.

JOSEPH WEINER. New Haven, Conn. 1620 *E. Biddle St.*
Ph. B., Yale University, 1916; Medical Student, *ibid.*, 1916-17.

ARCHIBALD WIESE. Pittsburgh, Pa. 1016 *N. Bdway.*
S. B., Princeton University, 1916.

HELEN JANE ZILLMER. Milwaukee, Wis. 33 *E. Mt. Vernon Pl.*
A. B., University of Wisconsin, 1916; Medical Student, *ibid.*, 1916-17.

Third Year

HARRY DAVIS ABELL. Smithland, Ky. 806 *N. Bdway.*
S. B., University of Kentucky, 1917.

ERRETT CYRIL ALBRITTON. Mayfield, Ky. 814 *N. Broadway.*
A. B., University of Missouri, 1916 Medical student, *ibid.*, 1914-1916, and University of Minnesota, 1916-1917.

FRED HAROLD ALLEN. Vallejo, Cal. 814 *N. Broadway.*
A. B., University of California, 1913, and A. M., 1916. Medical student, *ibid.*, 1917-1919.

CLYDE I. ALLEN. Danville, Ill. 518 *N. Broadway.*
A. B., Illinois Wesleyan University, 1917.

EDWIN COWLES ANDRUS. Oberlin, Ohio. 518 *N. Broadway*
A. B. and A. M., Oberlin College, 1916 and 1917.

WILLIAM DEWITT ANDRUS. Oberlin, Ohio. 518 *N. Broadway.*
A. B. and A. M., Oberlin College, 1916 and 1917.

ELIZABETH ARTHURS. Baltimore. 410 *N. Broadway.*
A. B., Vassar College, 1916; Summer School, J. H. U., 1916.

CECIL H. BAGLEY. Bagley. *The Latrobe Apts.*
A. B., Johns Hopkins University, 1917.

ALBERT ADGATE BAILEY. Newport News, Va.
A. B., Randolph-Macon College, 1915.

IMOGEN BALDWIN. Youngstown, Ohio. *Avon Apts.*, 6 *E. Read St.*
A. B., Mt. Holyoke College, 1916, and Graduate Student, 1916-17.

CLAUDE SCHAEFFER BECK. St. Clair, Pa. 1613 *E. Biddle St.*
A. B., Franklin and Marshall College, 1916; Graduate Student, University of Pittsburgh, 1916-17.

WALTER ANDREW BELL. New York, N. Y. 2962 *Harford Rd.*
A. B., Williams College, 1917.

RALPH DAVID BERGEN. Barberton, Ohio. 1529 *N. Bdway.*
A. B., Catholic University of America, 1917.

EDITH BOYD. Colorado Springs, Colo. 529 *N. Wolfe St.*
A. B., Colorado College, 1917.

DORSEY BRANNAN. Grafton, W. Va. 1614 *E. Biddle St.*
S. B., West Virginia University, 1916.

HELEN BRUCKMAN. San Francisco, Cal. 529 *N. Wolfe St.*
S. B., University of California, 1912, and Graduate Student, 1915.

WILLIAM MARCUS CORLEY, JR. Mexia, Texas. 101 *Jackson Pl.*
A. B., University of Texas, 1917.

MODESTINO CRISCITIELLO, JR. Jersey City, N. J. 1611 *E. Biddle St.*
A. B., Princeton University, 1917.

JOSEPH CHARLES CUNEO. Hoboken, N. J. 1322 *N. Caroline St.*
S. B., Princeton University, 1917.

MARGARET LOUISE CUTHBERTSON. Oakville, Canada. *Y. W. C. A.*
A. B., University of Toronto, 1913.

KENNETH MOSIER DAY. Pittsburgh, Pa. 813 *N. Broadway.*
A. B., Princeton University, 1917.

KATHARINE DODD. Cambridge, Mass. 1702 *E. Monument St.*
A. B., Bryn Mawr College, 1914.

MARION DREXEL DOUGLASS, JR. Mansfield, Ohio. 518 *N. Bdway.*
A. B., Kenyon College, 1917.

RICHARD DRESSER. Providence, R. I. 606 *N. Broadway.*
Ph. B., Brown University, 1916.

WILLIAM HILL ECKFORD. Swissvale, Pa. 1022 *N. Broadway.*
A. B., Emory College, 1916.

ERNEST EDLAVITCH. Bowie. 420 N. Broadway.
A. B., Johns Hopkins University, 1917.

ELIZABETH EMERSON. Providence, R. I. 1702 *E. Monument St.*
A. B., Bryn Mawr College, 1917.

WARFIELD MONROE FIROR. Baltimore. 715 *Newington Ave.*
A. B., Johns Hopkins University, 1917.

CLYDE MARVIN FITCH. Portsmouth, O. 606 *N. Broadway.*
S. B., Ohio Wesleyan University, 1917.

ROBERT EDWARD FREEMAN. Spokane, Wash. 1610 *E. Biddle St.*
S. B., University of Washington, 1917.

CLARENCE FRY. McComb, O. 1010 *N. Broadway.*
A. B., Ohio Wesleyan University, 1917.

GEORGE HENRY GARDNER. Springfield, O. 1338 *N. Eden St.*
A. B., Wittenberg College, 1917.

THOMAS BOLLING GAY, JR. Atlanta, Ga. 1727 *N. Broadway.*
A. B., University of Georgia, 1917; Medical student, University of Virginia, 1917-1919.

MOSES GELLMAN. Richmond, Va. 2801 *Rockrose Av.*
S. B., Richmond College, 1917.

GOMER FLOW GOFF. Sherman, Texas. 518 *N. Bdway.*
A. B., University of Texas, 1917.

HAROLD VERNON HARPER. Butler, Pa. 606 *N. Broadway.*
S. B., Allegheny College, 1916.

JULIAN DERYL HART. Buena Vista, Ga. 518 *N. Bdway.*
A. B., Emory University, 1916, and A. M., 1917.

JOSIAH B. HIBBITTS, JR. Union City, Tenn. 518 *N. Broadway.*
A. B., William Jewell College, 1916.

SAMUEL HERBERT HINTON. Dacula, Ga. 518 *N. Broadway.*
A. B., Emory University, 1916, and Graduate Student, 1917.

CHARLES HANCHETT HITCHCOCK. Chittenango, N. Y.
S. B., Amherst College, 1917. 1222 *N. Caroline St.*

WILLIAM HOLLISTER. New Bern, N. C. 1809 *N. Broadway.*
S. B., Davidson College, 1916.

IRA LUTHER HOUGHTON. Baltimore. 1719 *N. Calvert St.*
A. B., Johns Hopkins University, 1917.

WILLIAM BANKS HUFF. Roanoke, Va. 1216 *N. Broadway.*
A. B., Roanoke College, 1916.

CHESTER EZEKIEL HURWITZ. Baltimore. 900 *E. Lombard St.*
A. B., Johns Hopkins University, 1917.

DAVID TAYLOR HYATT. Monticello, Ark. 520 *N. Bdway.*
A. B., Washington and Lee University, 1916.

*MORRILL LEONARD ILSLEY. Waterville, Maine. 1816 *N. Calvert St.*
A. B., Colby College, 1917.

ARTHUR L. JACOBSON. Rugby, N. D. 518 *N. Bdway.*
A. B., University of North Dakota, 1917.

CHARLES REES JENKINS. Charleston, S. C. 1028 *N. Bdway.*
S. B., Davidson College, 1917.

LLOYD B. JOHNSTON. Faulkton, S. D. 518 *N. Broadway.*
S. B., Huron College, 1915.

IRMARITA KELLERS. Jersey City, N. J. 33 *E. Mt. Vernon Pl.*
A. B., Vassar College, 1916.

JAROLD ELIJAH KEMP. Bloomington. 520 *N. Broadway.*
A. B., Western Maryland College, 1917.

RALPH EMERSON KENDALL. Alliance, Ohio. 518 *N. Bdway.*
S. B., Mount Union College, 1917.

EDWARD ANDREW KITLOWSKI. Nanticoke, Pa. 520 *N. Bdway.*
S. B., Bucknell University, 1917.

HARVEY KLOCK. Herndon, Pa. 411 *N. Bdway.*
A. B., Haverford College, 1917.

LAWRENCE SCHLESINGER KUBIE. New York, N. Y. 529 *N. Wolfe St,*
A. B., Harvard University, 1916.

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* School of Hygiene.

RICHARD SHERMAN LYMAN. Hartford, Conn. 606 *N. Broadway.*
A. B., Yale University, 1913.

PAUL BEATTIE MACCREADY. Samarcand, N. J. 1115 *N. Caroline St.*
S. B., Princeton University, 1916.

JOHN ARCHIBALD MCKAY. Buie's Creek, N. C. 520 *N. Broadway.*
A. B. and A. M., University of North Carolina, 1911 and 1912.

IRVINE MCQUARRIE. San Francisco, Cal. 814 *N. Bdway.*
A. B., University of Utah, 1915; Medical student, University of California, 1916-1919.

CLEON CARL MASON. Long Beach, Cal. *Govans.*
Ph. B., Grinnell College, 1909.

JAMES PATRICK MOLLOY, JR. Chicago, Ill. 615 *N. Carrollton Av.*
A. B., St. Ignatius College (Chicago), 1916; Graduate Student, Johns Hopkins University, 1916-1917.

LESLIE EDWIN MYATT. Dickson, Tenn. 1338 *N. Eden St.*
S. B., and Phar. D., Vanderbilt University, 1917.

ISAAC Y. OLCH. Providence, R. I. 1614 *E. Biddle St.*
Ph. B., Brown University, 1917.

CAYETANO PANETTIERE. Lima, Peru. 806 *Madison Av.*
S. B., and A. M., Washington College, 1915 and 1916; Graduate Student, *ibid.*, 1916-1917.

JAMES CRAIG POTTER. Rochester, N. Y. 428 *N. Bdway.*
A. B., Yale University, 1919; Medical student, *ibid.*, 1917-1919.

PHILIP BARBOUR PRICE. Nanking, China. 1224 *N. Caroline St.*
A. B., Davidson College, 1917; Medical Student, Univ. of Virginia, 1917-19.

MARIAN CABOT PUTNAM, JR. Boston, Mass. 33 *E. Mt. Vernon Pl.*
A. B., Radcliffe College, 1917.

EVELYN B. REICHENBACH. Rochester, N. Y. 410 *N. Bdway.*
S. B., University of Rochester, 1917.

WILLIAM HARRY RESNIK. New Haven, Conn. 1622 *E. Biddle St.*
Ph. B., Yale University, 1916.

KEITH CHILTON RICE. Morristown, Tenn. 520 *N. Bdway.*
A. B., Washington and Lee University, 1917.

ARCHIBALD LOCKHART RIDDICK. High Point, N. C. 520 *N. Bdway.*
S. B., Guilford College, 1916.

ALICE ELIZABETH ROCKWELL. Ridgefield, Conn. 104 *Jackson Pl.*
A. B., Goucher College, 1917.

WILLIAM HELLMAN ROSENAU. Baltimore. 1515 *Eutaw Place.*
A. B., Johns Hopkins University, 1917.

DAVID HARRY RUBEN. Washington, Pa. 1622 *E. Biddle St.*
S. B., Washington and Jefferson College, 1917.

WILLIAM PAUL SADLER, JR. Van Buren, Ark. 606 *N. Bdway.*
A. B., University of Arkansas, 1916.

WINFIELD WENTWORTH SCOTT. Batavia, N. Y. 606 *N. Bdway.*
S. B., University of Rochester, 1915.

GORDON STIFLER SEAGRAVE. Granville, O. 947 *N. Broadway.*
A. B., Denison University, 1917.

EUGENE CLAY SHAW. Cuba, Ala. 520 *N. Broadway.*
A. B., Howard College, 1915, and A. M., 1916.

CHARLES PHILLIPS MAHOOD SHEFFEY. Lynchburg, Va.
A. B. and A. M., Randolph-Macon College, 1914 and 1915.
1222 *N. Caroline St.*

KENNETH EDWIN SMILEY. Santa Ana, Cal. 1216 *N. Broadway.*
S. B., Occidental College, 1917.

ARTHUR ADLER SONDHEIMER. Lancaster, Pa. 1338 *N. Eden St.*
A. B., Franklin and Marshall College, 1917.

KARL JOSEF STEINMUELLER. Baltimore. 327 *N. Carrollton Av.*
A. B., Johns Hopkins University, 1914.

DAN MAX STIEFEL. San Antonio, Tex. 1222 *N. Bdway.*
A. B., University of Texas, 1917.

*KO-CHI SUN. Siangtan, China. 505 *N. Wolfe St.*
A. B., Johns Hopkins University, February 22, 1918.

PAUL WINDOM SUTTON. Baltimore. 1735 *Bolton St.*
A. B., Johns Hopkins University, 1917.

HARRY MORGAN TIEBOUT. Brooklyn, N.Y. 1610 *E. Biddle St.*
S. B., Wesleyan (Conn.) University, 1917.

CHARLOTTE C. VAN WINKLE. Rutherford, N. J. 135 *Jackson Pl.*
A. B., Smith College, 1914; Graduate Student, New York University, 1915-16.

HELEN VINCENT. Winter Park, Fla. 410 *N. Bdway.*
A. B., Mount Holyoke College, 1915.

SILAS WILLARD WALLACE. Spring City, Tenn. 806 *N. Bdway.*
S. B., Earlham College, 1917.

MARY DUNNE WALSH. Richmond, Va. 11 *E. Chase St.*
A. B., Trinity College, Catholic University, 1916; Graduate Student, Columbia University, 1915-16.

GRANT E. WARD. Berea, O. 1322 *N. Caroline St.*
A. B., Baldwin and Wallace College, 1917.

ROXIE ADELINE WEBER. Lagrange, Texas. 104 *Jackson Pl.*
A. B., University of Texas, 1916.

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* Entered Jan. 1, 1918.

ALEXANDER ASHLEY WEECH. Baltimore. 520 *N. Broadway.*
A. B., Johns Hopkins University, 1917.

CASPAR LIGON WOODBRIDGE. Shanghai, China. 1610 *E. Biddle St.*
A. B., Princeton University, 1916.

MAX MASER ZINNINGER. Canton, Ohio. 411 *N. Broadway.*
A. B., Harvard University, 1917.

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Second Year

ROBERT STRAHL ANDREWS. Hampton, Iowa. 1028 *N. Bdway.*
S. B., Grinnell College, 1916; Graduate Student, Johns Hopkins University, 1917-18.

NATHANIEL MUNROE BECK. Baltimore. 2422 *N. Calvert St.*
A. B., Johns Hopkins University, 1916.

WILLIAM WIESS BELFORD. Georgetown, Texas. 1016 *N. Broadway.*
A. B., Southwestern University, 1918.

YVES BIRAUD. Poitiers, France. 810 *N. Broadway.*
A. B., State University of Poitiers (France), 1916.

ARTHUR HENDLEY BLAKEMORE. Senora, Va. 120 *Jackson Pl.*
S. B., William and Mary College, 1918.

ALFRED BLALOCK. Jonesboro, Ga. 518 *N. Broadway.*
A. B., University of Georgia, 1918.

JOSEPH ROGERS BLALOCK. Weldon, N. C. 427 *N. Broadway.*
A. B. and A. M., Wake Forest College, 1918.

MARGARET LATHROP BRONSON. New Haven, Conn. 305 *N. Bdway.*
A. B., Vassar College, 1908; Graduate Student, *ibid,* 1917-18.

CHARLES ELBERT BUELL, JR. Detroit, Mich. 806 *N. Broadway.*
A. B., University of Michigan, 1918.

CHARLES RICHARD BUGG. Farmville, Va. 1216 *N. Broadway.*
A. B., Hampden-Sidney College, 1916.

DOROTHY SAUNDERS BURDICK. Baltimore. 2706 *Elsinore Av.*
A. B., Mount Holyoke College, 1918.

JAMES FORD BUSBY. Rose Hill, Iowa. 1626 *E. Biddle St.*
S. B., Grinnell College, 1918.

WILLIAM ARMSTEAD CAMPBELL, JR. Colorado Springs, Col.
A. B., Colorado College, 1918. 518 *N. Broadway.*

*JESSIE REED COCKRILL. Baltimore. 1047 *N. Broadway.*
A. B., Western College for Women, 1918.

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* Entered Jan. 1, 1919.

MABEL BURNETT COHN. Albany, N. Y. 104 *Jackson Pl.*
A. B., Vassar College, 1918.

RALPH KABLE COLLINS. Rocky Ford, Colo. 606 *N. Bdway.*
A. B., University of Kansas, 1919; Medical Student, *ibid.*, 1915-1916 and 1918-1919.

GEORGE RICHARD COUSAR. Bishopville, S. C. 1028 *N. Bdway.*
A. B., Presbyterian College (S. C.), 1917.

JAY CECIL CRAGER. Beaumont, Tex. 1028 *N. Bdway.*
A. B., University of Texas, 1918.

ROBERT GLENN CRAIG. Albany, Ga. 518 *N. Broadway.*
A. B., Washington and Lee University, 1917.

RICHARD TYNER CRECRAFT. Franklin, Ind. 518 *N. Broadway.*
A. B., Franklin College, 1918.

MAX CUTLER. Athens, Ga. 420 *N. Broadway.*
S. B., University of Georgia, 1919.

ARTHUR CHARLES DANIELIAN. Fowler, Cal. 814 *N. Broadway.*
A. B., University of Southern California, 1917.

**ARCHIBALD SWEETLAND DEAN. Woodford, Me. 520 *N. Broadway.*
S. B., Bowdoin College, 1918; Summer School, University of Maine, 1917, and Harvard, 1918.

DAVID DAVIS. Washington, D. C. 801 *N. Bdway.*
A. B., George Washington University, 1917.

WALTER JOSEPH DECKER. Westfield, Pa. 810 *N. Bdway.*
S. B., St. John's College, 1918.

RISDEN JASPER DEFORD. Savannah, Tenn. 606 *N. Bdway.*
A. B., University of Tennessee, 1918.

CLAUDE GARRISON DRACE. Kennett, Mo. 705 *Newington Av.*
S. B., Vanderbilt University, 1918.

ROBERT HARRIS DURHAM. Siler City, N. C. 520 *N. Broadway.*
A. B., Trinity College (N. C.), 1918.

ROSE MARGARET DWYER. Hartford, Ct. 512 *N. Broadway.*
A. B., Adelphi College, 1918.

DANIEL EUGENE EAGLE. Statesville, N. C. 1254 *N. Bdway.*
A. B., University of North Carolina, 1917.

HAROLD ARNOLD EASTERBROOKS. Providence, R. I.
S. B., Rhode Island State College, 1910.

DOROTHY EDWARDS. Tallula, Ill. 305 *N. Broadway.*
S. B., Northwestern University, 1917.

** Sch. of Hygiene.

*STUART WILSON EGERTON. Baltimore. 106 *Elmhurst Rd.*
A. B., Johns Hopkins University, 1918.

ROBERT ELMAN. Syracuse, N. Y. 1032 *N. Broadway.*
S. B., Harvard University, 1918.

HELEN WARDNER EVARTS. Cambridge, Mass. 101 *Jackson Pl.*
A. B., Vassar College, 1917; Graduate Student, Radcliffe College 1917-18.

OTTO ORREN FISHER. Jacksonville, Fla. 632 *N. Bdway.*
A. B., Miami University, 1909.

RALPH LEE FISHER. Wilmington, N. C. 520 *N. Bdway.*
A. B., Trinity College (N. C.), 1918.

LEWIS BARR FLINN. Wilmington, Del. 510 *N. Bdway.*
A. B., Princeton University, 1918.

BENJAMIN FRANKLIN FREEMAN. Waco, Tex. 1613 *E. Biddle St.*
A. B., Baylor University, 1918.

*FRANK WEBSTER GARBER. Muskegon, Mich. 1224 *N. Caroline St.*
A. B., University of Wisconsin, 1917.

CHARLES A. GARRETT. Waco, Tex. 606 *N. Broadway.*
A. B., Baylor University, 1918.

MYRON EVERETT GOLDBLATT. Baltimore. 1519 *N. Broadway.*
A. B., Clark College, 1915. Graduate student, Johns Hopkins University, 1915-1916.

ANDREW MUNCY GROSECLOSE. Ceres, Va. 520 *N. Broadway.*
A. B., Roanoke College, 1918.

CHARLES ROBERT LEE HALLEY. Sheridan, Wyo. 606 *N. Bdway.*
A. B., University of Missouri, 1918.

SAMUEL HALPERN. Newark, N. J. 420 *N. Broadway.*
A. B., Columbia University, 1918; Medical student, Harvard University, 1918-1919.

PAUL MYRON HAMILTON. Colorado Springs, Col. 518 *N. Bdway.*
A. B., Colorado College, 1918.

TISLEY RANDOLPH HARRISON. Birmingham, Ala. 313 *N. Bdway.*
A. B., Universiy of Michigan, 1919; Medical student, *ibid.*, 1918-1919.

*THOMAS HARROLD, JR. Americus, Ga. 518 *N. Broadway.*
S. B., University of Georgia, 1918.

KATHARINE HAVARD. New Orleans, La. 313 *N. Bdway.*
A. B., Newcomb College, 1915.

CLYDE ALEXANDER HEATLY. Schenectady, N. Y. 704 *N. Bdway.*
A. B., Union College, 1918.

ROBERT MULLINEAUX HEINE. Baltimore. 1574 *Moreland Av.*
A. B., St. John's College, 1910.

* Entered Jan. 1, 1919.

WALTER GUSTAV HOUSEAL, JR. Newberry, S. C. 1612 *E. Biddle St.*
A. B., Newberry College, 1915; S. B., College of Charleston, 1917.

RHODA MURIEL IVIMEY. New York, N. Y. 614 *N. Broadway.*
A. B., Barnard College, 1911.

EDWIN BOSLEY JARRETT. Jarrettsville. 3028 *St. Paul St.*
A. B., Johns Hopkins University, 1918.

THOMAS BANFORD JONES. Utica, N. Y. 606 *N. Broadway.*
A. B., Hamilton College, 1918.

CHESTER SCOTT KEEFER. Altoona, Pa. 606 *N. Broadway.*
S. B., Bucknell University, 1918.

EDMUND HOFFECKER KERPER. Pottstown, Pa. 1032 *N. Broadway.*
S. B., Princeton University, 1918.

JAMES EDWARD KING. Atlanta, Tex. 1613 *E. Biddle St.*
A. B., Southern Methodist University, 1918.

ELIZABETH AMANDA KITTREDGE. Westford, Mass. 104 *Jackson Pl.*
A. B., Vassar College, 1912; A. M., Columbia University, 1913.

HARRY AARON KLEE. Washington, Pa. 1032 *N. Broadway.*
A. B., Washington and Jefferson College, 1918.

ORTHELLO RICHARDSON LANGWORTHY. Hamilton, N. Y.
A. B., Colgate University, 1918. 606 *N. Broadway.*

RAYMOND EARL LENHARD. Baltimore. 32 *S. Fulton Av.*
A. B., Johns Hopkins University, 1918.

ISIDORE IRVIN LEVY. Baltimore. 906 *Newington Av.*
A. B., Johns Hopkins University, 1918.

ROBERT KORN LIPPMANN. New York, N. Y. 529 *N. Wolfe St.*
S. B., Columbia University, 1918.

ROBERT COLNON LONERGAN. Chicago, Ill. 1624 *E. Preston St.*
A. B., Syracuse University, 1918.

WILLIAM SAMUEL LOVE, JR. Baltimore. 836 *W. North Av.*
A. B., Johns Hopkins University, 1918.

CLETUS EDMUND MCGUIGAN. Baltimore. 328 *Wyman Ave.*
A. B., Johns Hopkins University, 1918.

JACOB ISAAC MARGOLIS. New York, N. Y. 1220 *N. Bdway.*
Ph. B., Yale University, 1918.

ISRAEL DAVID MICHELSON. Baltimore. 832 *E. Baltimore St.*
A. B., Johns Hopkins University, 1918.

DOROTHEA MAY MOORE. Cambridge, Mass. 1047 *N. Bdway.*
A. B., Bryn Mawr College, 1915; Graduate Student, Radcliffe College, 1915-16.

FRANK GUY MOORE. Union, N. Y. 606 *N. Broadway.*
A. B., Hamilton College, 1918.

BESSIE LOUISE MOSES. Baltimore. 2329 *Eutaw Pl.*
A. B., Goucher College, 1915; Graduate Student, Johns Hopkins University, 1915-16.

MORRIS JACOBI MOSKOWITZ. Rochester, N. Y. 420 *N. Broadway.*
S. B., University of Rochester, 1918.

BERNHARD NEWBURGER, JR. Lexington, Ky. 1622 *N. Bdway.*
A. B., University of Missouri, 1918.

JOSEPH EDWARD NOWREY, JR. West Collingswood, N. J.
A. B., University of Southern California, 1917. 520 *N. Broadway.*

LEROY MATTHEW POLVOGT. Wilmington, N. C. 520 *N. Bdway.*
A. B., Roanoke College, 1918.

ROSA ELIZABETH PRIGOSEN. Brooklyn, N. Y. 135 *Jackson Pl.*
A. B., Adelphi College, 1916.

GATHRYN VEDALIA RILEY. Washington, D. C. 1713 *Fairmount Av.*
A. B., Wellesley College, 1912; S. B., Cornell University, 1916; A. M., Johns Hopkins University, 1916.

J. EVERETT SANNER. Baltimore. 620 *W. North Av.*
A. B., Johns Hopkins University, 1918.

*WILLIAM JOHN SCOTT. Cape Charles, Va. *Walbert Apts.*
A. B., Hampden-Sidney College, 1915; A. M., University of Virginia, 1917.

WILLIAM EYRE SISSON. Providence, R. I. 606 *N. Broadway.*
A. B., Brown University, 1918.

CLARENCE SMITH. Elyria, Ohio. 606 *N. Broadway.*
S. B., Ohio Northern University, 1918.

DAVID TILLERSON SMITH. Greenville, S. C. 427 *N. Bdway.*
A. B., Furman University, 1918.

MARGARET GLADYS SMITH. Carnegie, Pa. 410 *N. Broadway.*
A. B., Mount Holyoke College, 1918.

THOMAS COOK SMITH. Dublin, Ga. 518 *N. Broadway.*
S. B., Emory University, 1917.

SUSIE PAGE SOUTHER. Lincoln, Neb. 127 *Jackson Pl.*
A. B., University of Nebraska, 1918.

HARRY WELLINGTON VANCE. French Creek, W. Va. 128 *Jackson Pl.*
A. B., West Virginia Wesleyan College, 1918.

CHARLES WILLIAM WAINWRIGHT, JR. Princess Anne. 1519 *N. Bdway.*
A. B., Western Maryland College, 1914.

WILLIAM HORACE FRANKLIN WARTHEN. Baltimore. 1647 *Wilkens Av.*
A. B., Johns Hopkins University, 1919.

HARRY WASSERMAN. Baltimore. 721 *W. Saratoga St.*
A. B., Johns Hopkins University, 1918.

* Entered Jan. 1, 1919.

EDWIN DAVID WEINBERG. Lonaconing. 1620 *E. Biddle St.*
A. B., Dickinson College, 1917.

BEULAH WELLS. Cleveland, Ohio. 305 *N. Broadway.*
A. B., Vassar College, 1909.

WILLIAM JOHN HENRY BRADEN WELLS, Baltimore. 120 *S. Calhoun St.*
A. B., Johns Hopkins University, 1918.

JULIAN OTTO WILKE. Los Angeles, Cal. 1321 *N. Broadway.*
A. B., University of Southern California, 1917.

FLORENCE JOSEPHINE WIMSATT. Washington, D.C. 127 *Jackson Pl.*
A. B., Trinity College (D. C.), 1916, and A. M., 1917; Graduate Student, Johns Hopkins University, 1917-18.

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First Year

ARTHUR FREDERICK ABT. Chicago, Ill. 1047 *N. Caroline St.*
S. B., University of Chicago, 1919.

EDWIN PASCAL ALYEA. Clifton, N. J. 1529 *N. Broadway.*
S. B., Princeton University, 1919.

SAMUEL A. ANDERSON, JR. Richmond, Va. 1017 *N. Broadway.*
A. B., Washington and Lee University, 1919.

RALPH JONES BELFORD. Georgetown, Tex. 1016 *N. Bdway.*
A. B., Southwestern University, 1919.

ELSTON LEWIS BELKNAP. Oberlin, O. 1254 *N. Broadway.*
A. B., Oberlin College, 1919.

ERNEST DEARLE BICKFORD. Seattle, Wash. 1047 *N. Caroline St.*
S. B., University of Washington, 1919.

RENA MARION BIGALOW. Port Henry, N. Y. 1423 *John St.*
A. B., Goucher College, 1919.

WILLIAM BLOOM. Baltimore. 3310 *Auchentoroly Ter.*
A. B., Johns Hopkins University, 1919.

HAROLD RAY BOHLMAN. Lincoln, Neb. 1626 *E. Biddle St.*
S. B., Grinnell College, 1919.

JOHN HENRY BUMSTEAD. New Haven, Conn. 1254 *N. Bdway.*
A. B., Yale College, 1919.

ARTHUR BURNS. Cuero, Tex. 606 *N. Broadway.*
A. B., University of Texas, 1918.

GEORGE UPSHUR CARNEAL. Richmond, Va. 1521 *N. Broadway.*
A. B., Johns Hopkins University, 1919.

DONALD CHANDLER. Wilmington, Del. 411 *N. Bdway.*
S. B., Haverford College, 1917.

WILLIAM EVANS CHAPIN, JR. Richmond, Va. 909 *N. Broadway.*
S. B., Virginia Military Institute, 1917; Graduate Student, J. H. U., 1918.

DANA VINYARD CLARK. Galesburg, Ill. 606 *N. Broadway.*
A. B., Knox College, 1917.

WILLIAM LEE CLARK. Harrisburg, Pa. 521 *N. Wolfe St.*
Litt. B., Princeton University, 1919.

THOMAS WATSON CORNWALL. Tyty, Ga. 924 *N. Broadway.*
A. B., and M. S., Mercer University, 1916 and 1919.

ARCHIBALD BARKLIE COULTER. Baltimore. 225 *W. Preston St.*
A. B., Catholic University of America, 1918.

MARY DABOLL. Newtonville, Mass. 717 *Newington Av.*
A. B., Mt. Holyoke College, 1919.

THOMAS FARRELL DANIELS. Savannah, Ga. *The Plaza Apts.*
A. B., Mt. St. Mary's College, 1919.

CHARLES AUSTIN DOAN. Cincinnati, O. 1047 *N. Caroline St.*
S. B., Hiram College, 1918.

KARL WILHELM EBELING. Baltimore, 329 *Hawthorne Rd.*
A. B., Johns Hopkins University, 1919.

ROBERT LEE FAULKNER. Wattsburg, Pa. 1302 *N. Broadway.*
S. B., Allegheny College, 1919.

HENRY TERRIE FLOYD. Elon College, N. C. 927 *N. Bdway.*
A. B., Elon College, 1919.

CASPAR FOLKOFF. Baltimore. 2305 *Madison Av.*
A. B., Columbia University, 1917; Graduate Student, College of City of New York, 1917-1919.

WILEY DAVIS FORBUS. Baltimore. 812 *N. Broadway.*
A. B., Washington and Lee University, 1916.

MERRILL RUSSELL FOX. Crafton, Pa. 1032 *N. Broadway.*
A. B., Washington and Jefferson College, 1917.

BERNARD SEMPLE FRENCH. Vicksburg, Miss. 927 *N. Broadway.*
A. B., Catholic University of America, 1919.

PERRY JUDSON GAMBILL. Concord, Tenn. 1220 *N. Eden St.*
A. B., University of Tennessee, 1915.

CLARENCE ZENT GARBER. Mansfield, O. 1254 *N. Broadway.*
A. B., Oberlin College, 1918.

JAMES GASTON GAY. Atlanta, Ga. 1727 *N. Broadway.*
A. B., University of Georgia, 1919.

JOHN WALLACE GHORMLEY. Partridge, Kans. 1530 *N. Bdway.*
S. B., Wooster College, 1919.

JOHN LAWRENCE GOFORTH. Comfort, Tex. 606 *N. Broadway.*
A. B., University of Texas, 1918.

LUCILE GRAHAM. San Francisco, Cal. 1732 *E. Fayette St.*
A. B., University of California, 1919.

JOHN WIRT GRAHAM. Baltimore. 2917 *E. Baltimore St.*
A. B., University of Montana, 1917.

LEON GREENWALD. Baltimore. 536 *N. Chester St.*
A. B., Johns Hopkins University, 1919.

ALAN FRANK GUTTMACHER. Baltimore. *Marlborough Apts.*
A. B., Johns Hopkins University, 1919.

MANFRED SCHANFARBER GUTTMACHER. Baltimore. *Marlborough Apts.*
A. B., Johns Hopkins University, 1919.

ROBERT ARNOLD HAMRICK. Birmingham, Ala. 1530 *N. Bdway.*
S. B., University of Alabama, 1919.

HARRY EDWIN HANDLEY. Lewisburg, W. Va. 1017 *N. Bdway.*
A. B., Washington and Lee University, 1919.

OSCAR CARL EDWARD HANSEN. Lima, Peru, S. A. 806 *N. Bdway.*
A. B., Universidad Mayor de Sn. Marcos, 1919.

JOSEPH HARRIS. Washington, D. C. 1015 *N. Bdway*
A. B., Johns Hopkins University, 1919.

HARRY MILTON HAYTER. Meadow View, Va. 1220 *N. Eden St*
A. B., Emory and Henry College, 1918.

JEROLD KISER HOERNER. Lewisburg, O. 813 *N. Broadway.*
S. B., Earlham College, 1919.

CHARLES EDWIN HOMAN, JR. Chattanooga, Tenn. 1201 *N. Caroline St.*
S. B., Mercer University, 1918.

DAVID VENABLE HUDSON. Kashing, Chekiang Prov., China.
S. B., Davidson College, 1917. 1302 *N. Broadway*

ALFRED WILMOT JACOBSEN. Baltimore. *Pen Lucy Av.*
A. B., Johns Hopkins University, 1918.

RAYMOND LEMOYNE JOHNSTON. Chambersburg, Pa. 1032 *N. Bdway.*
A. B., Washington and Jefferson College, 1917.

LAWRENCE ALBERT KOHN. New York, N. Y. 1222 *N. Broadway*
A. B., Williams College, 1914.

PEARL VIVIAN KONTTAS. Portland, Ore. 410 *N. Broadway*
A. B., Reed College, 1918.

GEORGE S. LACHMAN. Baltimore. 1412 *Laurens St.*
A. B., Johns Hopkins University, 1919.

BERNARD WALTER LEONARD. Richmond, Va. 1521 *N. Broadway*
S. B., Richmond College, 1919.

ERIDA LOUISE LEUSCHNER. Berkeley, Cal. 1732 *E. Fayette St.*
A. B., University of California, 1919.

ROBERT WITHERSPOON MCKAY. Sumter, S. C. 1012 *N. Broadway.*
A. B., University of Virginia, 1917; Graduate Student, Davidson College, 1913-15.

CHARLES EDWARD MCPARTLAND. New Haven, Ct. 1525 *N. Broadway.*
Ph. B., Yale University, 1919.

JACQUES MAGNIN. Paris, France. *The Altamont.*
A. B., University of Paris, 1915; Faculty of Sciences, University of Paris, 1916.

EVERET WAITMAN MEREDITH. Sistersville, W. Va. 1626 *E. Oliver St.*
A. B., Ohio State University, 1918.

JOHN GASTON MERSELIS. Passaic, N. J. 1209 *N. Caroline St.*
A. B., Williams College, 1919.

WILLIAM LINDSAY MILLER, Rock Hill, S. C. 1530 *N. Broadway.*
A. B., Erskin College, 1918; S. B., University of South Carolina, 1919.

HERBERT EARL MOORE. Toledo, O. 3105 *Abell Av.*
A. B., Michigan State Normal College, 1915.

MAX ALEXANDER NOVEY. Baltimore. 939 *W. Baltimore St.*
A. B., Johns Hopkins University, 1919.

REUBEN PEARLMAN. Richmond, Ky. 420 *N. Broadway.*
S. B., University of Kentucky, 1917.

CHARLES HENRY PECKHAM. Howard, R. I. 1222 *N. Broadway.*
A. B., Brown University, 1919.

HENRY ANDREW PETERSON. Portland, Me. 906 *N. Broadway.*
A. B., University of Maine, 1917.

SARAH MARGARET PEYTON. Crisfield. 1536 *N. Broadway.*
A. B., Goucher College, 1916.

MIRIAM REWALT POLK. Millersburg, Pa. 1727 *E. Fairmt. Av.*
A. B., Goucher College, 1917.

ALLAN KING POOLE. East Liverpool, O. 515 *N. Wolfe St.*
S. B., Princeton University, 1919.

WILLIAM HUTSON PRIOLEAU, JR. Charleston, S. C. 1012 *N. Bdway.*
S. B., University of South Carolina, 1918.

ALEXANDER RANDALL. Baltimore. 8 *W. Mt. Vernon Pl.*
A. B., Johns Hopkins University, 1918.

SAMUEL FITZSIMONS RAVENEL. Green Pond, S. C. 808 *N. Bdway.*
A. B., University of North Carolina, 1918.

HERMAN H. RIECKER. Beverly, O. 120 *Jackson Pl.*
A. B., Marietta College, 1917.

MARGARET VIRGINIA ROBINSON. Clarksburg, W. Va. 712 *St. Paul St.*
A. B., Goucher College, 1915.

ALEXANDER JONAS SCHAFFER. Baltimore. 2566 *McCulloh St.*
Johns Hopkins University.

GRACE RUSSELL SEAGRAVE. Baltimore. 947 *N. Broadway.*
S. B., Denison University, 1917.

EDWIN ORVILLE SHAW. Baltimore. 2200 *Poplar Grove St.*
A. B., Johns Hopkins University, 1917.

PENELOPE SHERWOOD. Cornwall, N. J. 101 *Jackson Pl.*
A. B., Vassar College, 1919.

ERNEST CLAY SHULL. Winchester, Va. 1017 *N. Broadway.*
A. B., Washington and Lee University, 1917.

EDWARD WILSON SICKEL. Baltimore. 1316 *N. Caroline St.*
Johns Hopkins University.

ISADORE ABRAHAM SIEGEL. Baltimore. 1815 *Pennsylvania Av.*
A. B., Johns Hopkins University, 1919.

MARY LOUISE SMALL. Washington, D. C.
A. B., University of Tennessee, 1917; A. M., Radcliffe College, 1918.
The Terraces, Mt. Washington.

FRANKLIN FAUST SNYDER. Lancaster, Pa. 1529 *N. Broadway.*
S. B., Princeton University, 1919.

CONSTANCE LYNCH SPRINGER. Carlisle, Pa. 410 *N. Broadway.*
A. B., Dickinson College, 1918.

WALTER BLAIR STEWART. Atlantic City, N. J. 1022 *N. Bdway.*
S. B., Princeton University, 1920.

THOMAS HENRY SUTHERLAND, JR. Columbus, O. 1626 *E. Oliver St.*
A. B., Ohio State University, 1919.

GEORGE BRADLEY SYBERT. Elkridge. *Elkridge.*
A. B., Loyola College, 1919.

HERBERT FREDERICK TRAUT. Pittsburgh, Pa. 1010 *N. Broadway.*
S. B., Whitman College, 1917.

EUGENE BENTON VICKERY. Dahlonega, Ga. 927 *N. Broadway.*
A. B., North Georgia Agricultural College, 1919.

PIERRE JAQUA WALKER. Los Angeles, Cal. 428 *N. Bdway.*
A. B., University of California, 1917.

PAUL CHAMBERLAIN WALTER. Harrisburg, Pa. 521 *N. Wolfe St.*
S. B., Princeton University, 1919.

JOHN WHITFIELD WATSON. Frostburg. 1119 *N. Caroline St.*
S. B., St. John's College, 1918.

ARTHUR PAUL WILKINSON. Crawfordsville, Ind. 1612 *E. Biddle St.*
A. B., Wabash College, 1917.

TIFFANY JOHNS WILLIAMS. Baltimore. 619 *N. Carey St.*
A. B., Johns Hopkins University, 1919.

HENRY VAN PETERS WILSON, JR. Chapel Hill, N. C. 808 *N. Bdway.*
A. B., University of North Carolina, 1918.

JULIUS LANE WILSON. New York, N. Y. 1119 *N. Caroline St.*
S. B., Princeton University, 1918.

ROBERT POSEGATE WOOD. Iowa Falls, Ia. 1538 *N. Bdway.*
A. B., Ellsworth College, 1917.

ROBERT MORRIS WYLIE. Huntington, W.Va. 1222 *N. Bdway.*
A. B., Denison University, 1904, and A. M., 1909.

JAMES ARTHUR YORK. Baltimore. 306 *S. Mount St.*
A. B., Randolph-Macon College, 1916.

PAULINE ZINNINGER. Canton, O. 410 *N. Broadway.*
A. B., Oberlin College, 1917.

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C. School of Hygiene and Public Health

FELLOWS BY COURTESY

CHARLES EDMUND SIMON, M. D.

A. B., Johns Hopkins Universtiy, 1888; M. D., Unversity of Maryland, 1890; Professor of Clinical Pathology, University of Maryland and College of Physicians and Surgeons, 1908-1920. *Protozoology.*

1734 Linden Av.

SADAMU YOKOGAWA, M. D.

M. D., College of Okayama, 1908; M. D., University of Kyoto, 1917; Professor of Pathology, Medical College, Taiwan, Formosa. *Helminthology.*

718 N. Charles St.

FELLOWS

MARY JANE HOGUE. West Chester, Pa. 821 *N. Charles St.*

A. B., Goucher College, 1905; Ph. D., University of Wurzburg, 1909. *Protozoology.*

FLORENCE POWDERMAKER. Baltimore, Md. 810 *Whitelock St.*

S. B., Pennsylvania State College, 1915. *Bio-Chemistry.*

IDA WILLIAMS PRITCHETT. Baltimore, Md. *Homewood Apts.*

A. B., Bryn Mawr College, 1914. *Immunology.*

RAYMOND CLEVELAND SALTER. Madison, Wis. 2100 *Callow Av.*

S. B., University of Wisconsin, 1915; S. M., Iowa State College, 1918. *Bacteriology.*

HOMER WILLIAM SMITH. 312 *W. Monument St.*

A. B., University of Denver, 1917. *Physiology.*

LUIS BARTUAL VICENS.* Valencia, Spain.

L. M., University of Valencia, 1915; M. D., University of Madrid, 1916. *Immunology.*

ROCKEFELLER FOUNDATION SCHOLARS

REGINALD MYERS ATWATER. Colorado Springs, Colo.

A. B., Colorado College, 1914; M. D., Harvard University, 1918.

2755 *W. North Av.*

WILLIAM CHARLES BOECK. Olivia, Minn. 2317 *Whittier Av.*

S. B., Carleton College, 1915; A. M. and Ph. D., University of California, 1916 and 1918.

CHARLES NELSON LEACH.*

A. B., Stanford University, 1909, and M. D., 1913.

KENNETH FULLER MAXCY. Baltimore, Md. 905 *Cathedral St.*

A. B., George Washington University, 1911; M. D., Johns Hopkins University, 1915.

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* Resigned February 1, 1920.

* Not yet entered on his scholarship.

CANDIDATES FOR THE DEGREE OF DOCTOR OF PUBLIC HEALTH

CHARLES MAGEE ANDERSON. Ottawa, Can. 218 *W. Madison St.*
M. D. C. M., McGill University, 1916.

REGINALD MYERS ATWATER. Colorado Springs, Colo.
A. B., Colorado College, 1914; M. D., Harvard University, 1918. *Rockefeller Foundation Scholar.*
2755 *W. North Av.*

GARLAND HOWARD BAILEY. Giatto, W. Va. 1512 *N. Caroline St.*
S. B., West Visginia University, 1915; Fourth Year Medical Student, Johns Hopkins University.

ORVILLE GRAHAM BROWN. Washington, D. C. *Fort Howard, Md.*
M. D., Columbia University, 1900; Colonel, Medical Corps, United States Army.

JOHN COLLINSON. Baltimore, Md. 16 *W. Saratoga St.*
A. B., St. John's College, 1907; M. D., Johns Hopkins University, 1911.

JAMES THAMBIDURAI CORNELIUS. Madras, India. 601 *St. Paul St.*
A. M. and M. D., University of Cincinnati, 1919.

VALCOULON LEMOYNE ELLICOTT. Baltimore, Md. *Melvale, Md.*
S B., Massachusetts Institute of Technology, 1916; Fourth Year Medical Student, Johns Hopkins University.

REGINO PADUA Y GAERLAN. S. Juan, Union, P. I.
M. D. and D. T. M., University of the Philippines, 1915 and 1918.
900 *Madison Av.*

LIM, CHONG EANG. Fukien, China. 1008 *Madison Av.*
M. B. and S. B., Hong Kong University, 1916.

KENNETH FULLER MAXCY. Baltimore, Md. 905 *Cathedral St.*
A. B., George Washington University, 1911; M. D., Johns Hopkins University, 1915; *Rockefeller Foundation Scholar.*

DANIEL MURRAH MOLLOY. Managua, Nicaragua. *The Altamont.*
M. D., University of Nashville, 1908.

RALPH WELTY NAUSS. Greenville, Ohio. 110 *E. Preston St.*
S. B., Ohio State University, 1901; M. D., Northwestern University, 1905; D. P. H., University of Pennsylvania, 1916.

FRANK OLDT. Dayton, Ohio. 2409 *N. Calvert St.*
A. B., Otterbein College, 1901; M. D., Ohio Medical University, 1905.

GEORGE CALVIN PAYNE. Muskogee, Okla. 2622 *N. Calvert St.*
A. B., University of Missouri, 1910; M. D., Cornell University, 1912.

JOHN ARTHUR FRANKLIN PFEIFFER. Baltimore, Md.
M. D., Baltimore Medical College, 1908; A. M., George Washington University, 1916 and Ph. D., 1918.
1112 *N. Stricker St.*

GERALDO HORACIO DE PAULA SOUZA. São Paulo, Brazil.
Pharm. D., School of Pharmacy, São Paulo, 1908; M. D., Rio Janeiro, 1913.
1318 *McCulloh St.*

FRANCISCO BORGES VIEIRA. São Paulo, Brazil. 1318 *McCulloh St.*
B. Sc. e Lett., Gymnasium of São Paulo, 1911; M. D., Rio Janeiro, 1917.

CANDIDATES FOR THE DEGREE OF DOCTOR OF SCIENCE IN HYGIENE

CLENNIE ELSIE BAILEY. Terre Haute, Ind. 328 *E. 20th St.*
A. B., Indiana State Normal School, 1917. *Immunology.*

HOBART WILLIAM CROMWELL. Center Point, Ind.
A. B., Indiana State Normal School, 1917. *Immunology.*
4101 *Penhurst Av.*

MARY GOVER. Baltimore, Md. 600 *N. Carrollton Av.*
A. B., Goucher College, 1913; A. M., Johns Hopkins University, 1917. *Statistics.*

AMY JANE LEIGH. Cedar City, Utah. 1425 *Linden Av.*
S. B., Agricultural College of Utah, 1919. *Bio-Chemistry.*

JOHN RICE MINER. Baltimore, Md. *Towson, Md.*
A. B., University of Michigan, 1913. *Statistics.*

SAMUEL PITLIK. Worcester, Mass. 2206 *E. Baltimore St.*
A. B., Clark College, 1917; A. M., University of Chicago, 1918. *Statistics.*

IDA WILLIAMS PRITCHETT. Baltimore, Md. *Homewood Apts.*
A. B., Bryn Mawr College, 1914. *Immunology.* Fellow, 1919-1920.

RAYMOND CLEVELAND SALTER. Madison, Wis. 2100 *Callow Av.*
S. B., University of Wisconsin, 1915; S. M., Iowa State College, 1918. *Bacteriology.* Fellow, 1919-1920.

HOMER WILLIAM SMITH. Denver, Colo. 3724 *Greenmount Av.*
A. B., University of Denver, 1917. *Physiology.* Fellow, 1919-1920.

CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE IN HYGIENE

EDITH MARGARET JANE BARRETT. Memphis, Tenn. 4025 *Belle Av.*
Student in Tulane University, 1915-1917 and Louisiana State Medical College, 1917-1918.

CHARLES RAYMOND COX. Baltimore. Md. *Lutherville, Md.*
Student in Johns Hopkins University, 1919.

ELLEN BOYDEN FINLEY. Albany, N. Y. *Homewood Apts.*
A. B., Vassar College, 1916.

WINIFRED ANDERSON GOODWIN. Gross Ile, Mich. *Cecil Apts.*
A. B., University of Michigan, 1914.

MARIE LOUISE KOCH. Baltimore, Md. 2524 *Maryland Av.*
Student, Johns Hopkins University, 1918-1919.

EDITH EVELYN NICHOLLS. Baltimore, Md. 3409 *Guilford Terr.*
A. B., Smith College, 1919.

ELLA HUTZLER OPPENHEIMER. Baltimore, Md. 1411 *Eutaw Place*
A. B., Goucher College, 1918.

DAVID HENRY SHELLING. Hartford, Conn. 503 *N. Wolfe St.*
Student, Loyola University, 1917-1918 and Trinity College, 1918-1919.

JEAN CHIRON SNYDER. Elyria, Ohio. 817 *Park Av.*
A. B., Wellesley College, 1918.

SPECIAL STUDENTS

ANNA DETRING SCHULTZE ABERCROMBIE. Baltimore, Md.
M. D., Woman's Medical College of Baltimore, 1908. *Public Health Administration.*
1316 *N. Charles St.*

AGNES LATIMER BACON. Baltimore. Md. 2316 *N. Calvert St.*
A. B., Wellesley College, 1897. *Statistics.*

ZDENEK BERNARD. Prague, Czechoslovakia. 212 *W. Franklin St.*
M. D., University of Prague, 1914. *Immunology, Physiological Hygiene.*

MAGDALEN BURGER. Baltimore, Md. 1811 *W. North Av.*
Statistics.

LILLIAN CROMBIE BURROUGHS. Baltimore, Md. 2313 *E. Federal St.*
A. B., Goucher College, 1917. *Metabolism and Diet.*

FRED CORNELIUS CALDWELL. Chicago, Ill.
S. B., University of Chicago, 1909; M. D., Rush Medical College, 1912. *Medical Zoology.*

ANNA HELEN EMILY DORSEY. Ellicott City, Md. *Catonsville, Md.*
Bacteriology.

KAREL DRIML. Chocen, Czechoslovakia. 212 *W. Franklin St.*
M. D., University of Prague, 1914. *Bacteriology, Protozoology, Public Health Administration, Statistics.*

TAGE ULRICH HOLTON ELLINGER. Copenhagen, Denmark.
S. M., University of Copenhagen, 1917. *Statistics.*
Ruxton, Md.

MARIAN GIBSON. Chicago, Ill. 1015 *Cathedral St.*
Statistics.

JOHN HOMER HAMILTON. Stillwater, Okla.
S. B., Oklahoma Agricultural College, 1910; M. D., Harvard University, 1916. *Medical Zoology.*

WALTER CARL HAUSHEER. Norwich, N. Y.
M. D., University of Pennsylvania, 1918. *Medical Zoology.*

CHARMIAN HOWELL. Atlanta, Ga. 2410 *Maryland Av.*
S. B., Oakcliffe College, 1903. *Statistics.*

JAROSLAV HULKA. Strmilov, Czechoslovakia. 704 *Madison Av.*
M. D., University of Prague, 1919. *Public Health Administration.*

FERNALD EVERETT HULSE. Arlington, Mass.
S. B., Harvard University, 1915. *Medical Entomology, Protozoology.*

EDGAR ALLEN JONES. Cambridge, Md. 16 *W. Saratoga St.*
M. D., Baltimore Medical College, 1893. *Epidemiology.*

VICTOR EMANUEL LEVINE. Omaha, Nebraska.
A. B., College of the City of New York, 1909; A. M., Columbia University, 1911, and Ph. D., 1914. *Chemical Hygiene* (July to September, 1919).

HERTHA LICHTENSTEIN. Winona, Minn. 1510 *Eutaw Place*
Bacteriology, Immunology.

EDGAR SMITH LINTHICUM. Baltimore, Md. 2729 *St. Paul St.*
M. D., Baltimore Medical College, 1906. *Epidemiology, Public Health Administration, Sanitary Engineering.*

ELIZABETH MOORE MCKINNEY. Pittsburgh, Pa. 1225 *Madison Av.*
S. B., Wilson College, 1895; M. D., Johns Hopkins University, 1901. *Helminthology, Medical Entomology, Protozoology.*

MARGARET BAXTER MACDONALD. State College, Pa.
A. B., Mount Holyoke College, 1898; Ph. D., Bryn Mawr College, 1902. *Chemical Hygiene.*
917 *W. Franklin St.*

CHESTER LEA MAGEE. Los Angeles, Cal. *Coca Cola Bldg.*
A. B., Stanford University, 1895, and A. M., 1896; M. D., Johns Hopkins University, 1899. *Medical Entomology.*

FLORENCE KING PAYNE. Muskogee, Okla. 2622 *N. Calvert St.*
M. D., Syracuse University, 1909. *Helminthology, Protozoology, Sanitary Engineering.*

LOUIS JAMES PETRITZ. Rockford, Ill. 905 *St. Paul St.*
A. B., Holy Cross College, 1914; M. D., Northwestern University, 1918. *Medical Zoology.*

AMY GEORGINA PHILLIPS. Baltimore. Md. 700 *Gladstone Av.*
Statistics.

BLANCHE POOLER. Stillwater, Maine. 157 *W. Lanvale St.*
Statistics.

FLORENCE POWDERMAKER. Baltimore, Md. 810 *Whitelock St.*
S. B., Pennsylvania State College, 1915. *Histology.* Fellow 1919-1920.

HELEN MARY POWELL. Philadelphia, Pa. 1203 *Madison Av.*
Bacteriology, Immunology, Parasitology.

ALICE RAYMOND. Leominster, Mass. 709 *St. Paul St.*
A. B., Middlebury College, 1910. *Statistics.*

MARGARET IRMA RILEY. Elkridge, Md. *Elkridge, Md.*
Statistics.

ROBERT HICKMAN RILEY. Cumberland, Md. 16 *W. Saratoga St.*
S. B., University of Oklahoma, 1909, and M. D., 1915. *Bacteriology, Epidemiology.*

LEONCIO LOPEZ RIZAL. Laguna, P. I. 900 *Madison Av.*
A. B., Ateneo de Manila, 1903; M. D., University of the Philippines, 1909. *Epidemiology, Statistics.*

EDWIN WILLIAM SCHULTZE. Roanoke, Indiana. 515 *N. Wolfe St.*
S. B., Winona College of Agriculture, 1913; A. B., University of Michigan, 1914; M. D., Johns Hopkins University, 1917. *Protozoology.*

OLIVE CUSHING SMITH. Baltimore, Md. 4 *E. Biddle St.*
Statistics.

FRED LOWE SOPER. Hutchinson, Kansas.
A. B., University of Kansas, 1914, and S. M., 1916; M. D., Rush Medical College, 1918. *Medical Zoology.*

REBEKAH SUGAR. Baltimore. Md. 140 *E. Clement St.*
Statistics.

CHARLES CUMMING TUMBLESON. Crownsville, Md.
M. D. *Immunology* (April to August, 1919).

LUIS BARTUAL VICENS. Valencia, Spain. 4101 *Penhurst Av.*
L. M., University of Valencia, 1915; M. D., University of Madrid, 1916. *Immunology.* Fellow 1919-1920.

RICARDO RIVAS VIDES. San Salvador City. 9 *E. Centre St.*
S. B., El Salvador Institute, 1906; M. D., El Salvador University, 1916. *Bacteriology, Immunology.*

JOHN WILLIAM VISHER. Chicago, Ill.
A. B., University of South Dakota, 1914, and A. M., 1915; M. D., Rush Medical College, 1917. *Medical Zoology.*

CORYDON MCALMONT WASSELL. Little Rock, Arkansas.
M. D., University of Arkansas, 1909. *Medical Zoology.*
2721 *N. Charles St.*

CLARK HARVEY YEAGER. Wilkesbarre, Pa.
M. D., University of Pennsylvania, 1911. *Medical Zoology.*

STUDENTS REGISTERED IN OTHER DEPARTMENTS TAKING SPECIAL COURSES

LESLIE CARRINGTON BEARD, A. B., Department of Philosophy, *Bacteriology.*

SHEONAN CHEER, A. B., Department of Medicine, *Immunology.*

ARCHIBALD SWEETLAND DEAN, S. B., Department of Medicine, *Bio-Chemistry.*

BENJAMIN SIMON NEUHAUSEN, A. B., Department of Philosophy, *Bacteriology.*

FLORA DODLER SUTTON, A. B., Department of Philosophy, *Statistics.*

CHARLOTTE CONDICT VAN WINKLE, A. B., Department of Medicine, *Public Health Administration.*

JOHN PAUL VISSCHER, A. B., Department of Philosophy, *Parasitology, Protozoölogy.*

D. Department of Engineering

GRADUATE STUDENTS

CANDIDATES FOR THE MASTER'S DEGREE IN ENGINEERING

Guy Lee Bryan, Jr. Baltimore. *Guilford Manor Apts.*
B. S. in Eng., Johns Hopkins University, 1917, and Instructor, 1918-20. *Civil Engineering.*

Noboru Inouye. Tokyo, Japan. 617 *E. 33d St.*
College of Engineering, Tokyo; Kyoto Imperial University. *Electrical Engineering.*

OTHER GRADUATE STUDENTS

Ulric Orlando Hutton. Brookeville. 1402 *Linden Av.*
B. S. in Eng., Johns Hopkins University, 1916. *Gas Engineering, Mechanical Engineering, and Geology.*

Teizo Isshiki. Tokyo, Japan. 1 W. *27th St.*
University of Tokyo (Kogakushi, 1909). *Electrical Engineering.*

CANDIDATES FOR THE DEGREE OF BACHELOR OF ENGINEERING

Clinton Bates Jarman, Jr. Greensboro.
A. B., Western Maryland College, 1918. *Electrical Engineering.*

James Andrew Gregg Pennington. Baltimore. 3014 *N. Calvert St.*
A. B., Princeton University, 1912. *Mechanical Engineering.*

Albert Godfred Schuele. Baltimore. 1904 *W. Lafayette Av.*
B. S., St. John's College, 1918. *Electrical Engineering.*

Anthony Russo Spartana. Baltimore. 615 *N. Washington St.*
A. B., Rock Hill College, 1917. *Electrical Engineering.*

William Dolley Tipton. Jarrettsville. 1810 *Guilford Av.*
A. B., Western Maryland College, 1910. *Electrical Engineering.*

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UNDERGRADUATE STUDENTS

College of Arts and Sciences

Candidates for the Degree of Bachelor of Arts

A single Roman numeral signifies year of residence and of collegiate standing when identical; a second numeral signifies standing when differing from residence.

Bernard Ades. Baltimore. 4413 *Garrison Av.*
Baltimore City College. I. Dr. Weyforth, *Adviser.*

Miguel B. Afable. Manila, P. I. 2714 *Maryland Av.*
University of the Philippines. I. Professor Andrews, *Adviser.*

Warren Wright Almy. Baltimore. *Manhattan Av.*
Baltimore City College. III. Professor Greene, *Adviser.*

John William Ashton. Baltimore. 119 *N. Fulton Av.*
Loyola College. I. Professor Hulburt, *Adviser.*

Aaron Askin. Baltimore. 907 *Pennsylvania Av.*
Baltimore City College. II. Professor Hulburt, *Adviser.*

Mariano Badillo. Mexico City, Mex. *Y. M. C. A.*
Normal School of Mexico. III. Dr. Gruenbaum, *Adviser.*

Rignal Woodward Baldwin, Jr. Baltimore. 106 *E. Preston St.*
Baltimore City College. I. Professor Gilpin, *Adviser.*

Israel Baroway. Baltimore. 2554 *McCulloh St.*
Baltimore City College. III. Professor Gilpin, *Adviser.*

John Ries Bartels. Baltimore. 2117 *Lake Montebello Ter.*
Baltimore City College. IV. Professor Barnett, *Adviser.*

Emory Shelvy Basford. Anne Arundel Co. *Jessup*
Charlotte Hall School. III. Professor Greene, *Adviser.*

August Robert Bauer. Asheville, N. C. 3122 *N. Calvert St.*
Trinity College. I. (II). Professor Gilpin, *Adviser.*

Chandler Baker Beall. Mayesville, S. C. 2704 *St. Paul St.*
Davidson College. I. (II.) Professor Andrews, *Adviser.*

Paul Uburto Beall. Baltimore. 827 *W. 36th St.*
Boys' Latin School. IV. Professor Barnett, *Adviser.*

Vernal Augustus Bell. Baltimore. 217 *N. Calhoun St.*
Cape Traverse High School. II. Professor French, *Adviser.*

Howard Schwab Benedict. Baltimore. 2207 *Eutaw Pl.*
Baltimore City College. I. Professor French, *Adviser.*

Carville Dickinson Benson, Jr. Baltimore Co. *Halethorpe.*
Baltimore City College. IV. Professor Latané, *Adviser.*

WILLIAM FRANKLIN BENTLEY, JR. Balt. 1814 *W. Lexington St.*
Baltimore City College. I. Professor Andrews, *Adviser.*

JOSEPH MOSES BERKOWITZ. Baltimore. 1025 *W. Balt. St.*
Baltimore City College. IV. Professor Hollander, *Adviser.*

EDWARD WILLARD BERRY. Baltimore. 3508 *Park Hghts. Av.*
Baltimore City College. I. Professor Swartz, *Adviser.*

JOSEPH SELMAN BLAUSTEIN. Baltimore. 805 *Chauncey Av.*
Baltimore City College. II. Professor Mustard, *Adviser.*

ABRAHAM JOEL BLECHMAN. Baltimore. 301 *S. Howard St.*
Baltimore City College. II. Professor Hulburt, *Adviser.*

BENSON BLOOM. Baltimore. 3310 *Auchentoroly Ter.*
Baltimore City College. I. Professor Andrews, *Adviser.*

ALBERT HERBERT BLUM. Baltimore. 2502 *Brookfield Av.*
Baltimore City College. III. (IV.) Professor Barnett, *Adviser.*

JAMES RAWLINGS HERBERT BOONE. Baltimore. *Lake Roland.*
Marston's University School. III. (II.) Professor Lancaster, *Adviser.*

RALPH FIRESTONE BOWERS. Frederick. 3125 *N. Calvert St.*
Pennsylvania College. II. Professor Barnett, *Adviser.*

FORREST FULTON BRAMBLE. Baltimore. 939 *N. Broadway.*
Baltimore City College. III. Professor Barnett, *Adviser.*

DANIEL BAKER BRATT. Oxford. 3100 *N. Calvert St.*
Oxford High School. IV. Professor Barnett, *Adviser.*

HENRY PIERCE BRAWNER. Baltimore. 4 *Club Rd.*
St. James School. I. Dr. Mitchell, *Adviser.*

FRED BRESEE, JR. Pittsburg, Kans. 2624 *N. Calvert St.*
Pittsburgh High School. IV. Professor French, *Adviser.*

FERDINAND GRAFT BRICKWEDDE. Baltimore. 849 *W. 35th St.*
Baltimore City College. I. Professor Gilpin, *Adviser.*

HARRY BROTMAN. Newark, N. J. 2526 *N. Charles St.*
New York University. I. (III.) Professor Gilpin, *Adviser.*

JOHN DANIEL BRUMBAUGH. Louisville, O. 2517 *Maryland Av.*
College of Wooster. I. (IV). Professor Gilpin, *Adviser.*

CARL WILLIAM BUCHHEISTER. Leeland. 106 *Edgevale Rd.*
St. Vincent College (Beatty, Pa.) I. (II.) Professor Mustard, *Adviser.*

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Education I.

EMILY H. DAVIS. Baltimore. *Ten Hills.*
Art I.

JEANNETTE DAVIS. Baltimore. 128 *W. Franklin St.*
A. B., Goucher College, 1918. *Art I.*

MERVIN MONROE DEEMS. Baltimore. 152 *Wilson St.*
Baltimore City College. *Oriental Seminary IV.*

JAMES ALLEN DEFORCE. Spokane, Wash. 3125 *N. Calvert St.*
University of Washington. *French II.*

MARY E. DEGENHARD. Baltimore. 3024 *Prestman St.*
Education VII.

DOROTHY H. DEMPSTER (Mrs.) Baltimore. 817 *N. Fremont St.*
Art IV.

RYLAND NEWMAN DEMPSTER. Baltimore. 817 *N. Fremont St.*
B. S. Eng., Johns Hopkins University, 1918. *Education I, III and VI; History I.*

FRANK DIEHL. Waynesburg, Pa. 2611 *Maryland Av.*
M. A., Columbia University, 1915. *Psychology II.*

HARRY B. DILLEHUNT. Baltimore. *Belvedere Hotel.*
Art IV.

MARTHA JULIET DITTUS. Baltimore. 2118 *Bolton St.*
French Elements.

EDNA LEOLA DIXON. Baltimore. 2206 *Elsinor Av.*
Russian.

CLARA S. DOBBIN. Baltimore. *The Walbert Apts.*
Education III (G).

ETHELYN DRYDEN. Baltimore. 1323 *Linden Av.*
French I.

GLADYS DRYDEN. Baltimore. 1323 *Linden Av.*
French III; Spanish II.

HELEN DRYDEN. Baltimore. 3925 *Ridgewood Av.*
English I.

JAMES WILSON DUFFY. Baltimore Co. *Pikesville.*
Marston's University School. *Art IV.*

HILDA NORTH DULAC (Mrs.). Baltimore. *University Apts.*
Art I, II and IV; Education IX; Spanish II.

ANNE IRENE DYSART. Baltimore. 107 *N. Carey St.*
Art IV.

LILLIAN EAGLESTON. Baltimore. 205 *Overland Av.*
French I.

JOHN SHELDON EASTLAND. Darien Center, N. Y.
Alden High School. *Oriental Seminary IV.* 2736 *N. Calvert St.*

MARION EATON. Baltimore. 1500 *Madison Av.*
English I.

HARRIET ELIZABETH EBAUGH. Baltimore Co. *Reisterstown.*
A. B., Goucher College, 1902. *Education I.*

MARY OLIVE EBAUGH. Baltimore. 2119 *Linden Av.*
A. B., Goucher College, 1907. *Education I.*

CHARLES ARTHUR EBY. Baltimore. 1106 *Union Trust Bldg.*
History I.

EDNA VIOLA EBY. Baltimore. 1722 *N. Caroline St.*
Education I.

ETHEL C. EBY (Mrs.) Baltimore. 2741 *Maryland Av.*
English II.

J. CYRIL EBY. Baltimore. 2530 *N. Charles St.*
Psychology I.

ALFRED THOMAS EDEL. Baltimore. 14 *Wendover Rd., Guilford.*
English I.

VERA EDGAR. Baltimore. 2 *Roland Av.*
English I; Shakespeare; History II B.

ETHEL ESTELLE EDWARDS. Baltimore. 703 *Reservoir St.*
A. B., Goucher College, 1909. *Education I, III, IV, and VI; French II; Spanish I* (A).

M. L. M. ELLICOTT (Mrs. CHARLES E.). Baltimore. *Station L.*
American Government.

WINFIELD HENRY EMLET. Baltimore. 2723 *St. Paul St.*
Hanover High School. *Education II.*

WILLIAM W. EMMART. Baltimore. 817 *N. Fremont St.*
Art IV.

GILSON COLBY ENGEL. Baltimore. 3806 *Montgomery Av.*
Baltimore City College. *Art IV.*

LAWRENCE EDWARD ENSOR. Baltimore Co. *Texas.*
Psychology I.

PAULINE GANS ERLANGER (Mrs.). Baltimore. *Mt. Holly Inn.*
Psychology II.

EMILY W. EVERSFIELD. Baltimore. 3085 *Dorchester Rd.*
Education VI (G).

ALICE VEDDAR FARQUHAR. Baltimore. *Friends' School.*
Russian.

ROBERT LEE FAULKNER. Wattsburg, Pa. 1302 *N. Broadway.*
S. B., Allegheny College, 1919. *German I.*

OLIVE FEEMSTER (Mrs.). Baltimore Co. *Raspeburg.*
A. B., Texas Woman's College, 1917. *Chemistry III* (lectures).

SAMSON FELDMAN. Baltimore. 746 *N. Eutaw St.*
Baltimore City College. *Art IV.*

WALTER BLAINE FELGER. Canton, O. *Normandie Hghts.*
A. B., University of Illinois, 1916. *Latin Elements.*

JOHN FERGUSON. Baltimore. 2715 *Jefferson St.*
English II.

ELLEN BOYDEN FINLEY. Albany, N. Y. 1435 *Mt. Royal Av.*
A. B., Goucher College, 1916. *Chemistry III.*

ABRAHAM LEONARD FINESINGER. Oil City, Pa. 1926 *N. Monroe St.*
Oil City High School. *Shakespeare.*

SOL BARUCH FINESINGER. Oil City, Pa. 1926 *N. Monroe St.*
Oil City High School. *Shakespeare.*

IDA VIRGINIA FLOWERS. Baltimore. 428 *E. 20th St.*
Education VII; Psychology I.

HENRY TERRIE FLOYD. Elon College, N. C. 927 *N. Bdwy.*
A. B., Elon College, 1919. *French I.*

BESSIE MAUD FOARD. Baltimore. 500 *Orkney Rd.*
A. B., New Windsor College, 1909. *History I.*

EDWARD LESTER FOOTE. Baltimore. 3020 *Brighton St.*
Baltimore City College. *French II; Psychology II.*

CAROLINE ANNE FOSSETT. Baltimore. 858 *W. 37th St.*
Education VIII.

JOHN WALTER SMITH FOSTER. Baltimore. 830 *University Pkwy.*
French I.

JANET L. FOTHERINGHAM. Baltimore. 830 *Hamilton Ter.*
French I.

VIOLA FOX. Baltimore. 1728 *Bolton St.*
Psychology II.

MARY ISABEL FRAMES. Baltimore. 3120 *N. Calvert St.*
Education III.

CARROLL EIKER FRENCH. Monmouth, Ill. 2706 *N. Charles St.*
A. B., Monmouth College, 1916. *Psychology II.*

FREDERICK MAY WISE FRICK. Baltimore. 28 *W. Biddle St.*
Gilman Country School. *English I.*

FRANCIS MITCHELL FROELICHER. Hamilton. 303 *Tramore Rd.*
A. B., Haverford College, 1913. *Education IV.*

DAVID HEDDESTON FULTON. Baltimore. 807 *Cathedral St.*
Psychology I.

WALTER RASIN GALE. Baltimore. 1401 *Linden Av.*
Art IV.

MARY T. GALLAGHER. Baltimore. 2903 *Hudson St.*
Art IV.

DOROTHY BROOKE GARDNER. Baltimore. 705 *Newington Av.*
Education VII.

RUBY DUNCAN GEDDES (Mrs.). Baltimore. 108 *E. Madison St.*
Education I and III.

MARY F. GELLETLY. Baltimore. 905 *Cathedral St.*
Art IV.

BESSIE TEEPLE GEISER (Mrs.). Baltimore. 2131 *Maryland Av.*
A. B., Upper Iowa University, 1913. *Art IV; History I.*

IMOGEN GEORGE. Baltimore. 1501 *Bolton St.*
Contemporary European History.

ELIZABETH J. GERHARDT. Baltimore. 514 *N. Arlington Av.*
Education V.

LILLIAN M. GERHARDT. Baltimore. 514 *N. Arlington Av.*
French Elements.

NETTIE REBECCA GERMAN. Baltimore. 14 *S. Broadway.*
Education VIII.

EVA ELIZABETH GERSTMYER. Baltimore. 1640 *N. Broadway.*
History I.

HELEN MACQUEEN GIBBS. Baltimore. 1209 *St. Paul St.*
History I.

OLIVE GILPIN (Mrs.). Baltimore. *Stony Run La.*
History II B.

LEON M. GINSBERG. Baltimore. 734 *W. North Av.*
Psychology II.

CAROLYN V. GLANDING. Baltimore. 1641 *Tenth St.*
French Elements.

MAURICE GLICK. Baltimore. 2066 *Linden Av.*
Psychology II.

LELIA FARINHOLT GLOCKER (Mrs.). Balto. 2909 *W. Presstman St.*
English I; History II B.

CHARLES GOETZ. Baltimore. 2110 *E. Pratt St.*
Chemistry I.

GEORGE GOETZ. Baltimore. 2110 *E. Pratt St.*
Baltimore City College. *French II; Philosophy II; Psychology II; Oriental Seminary I and IV.*

MARY B. GOLDBERG. Baltimore. 2235 *Eutaw Pl.*
French Elements.

MILTON EMANUEL GOLDSTEIN. Baltimore. 947 *Brooks La.*
Baltimore City College. *Art IV; French II.*

MORRIS H. GOODMAN. Baltimore. 100 *W. West St.*
Psychology I.

CLARENDON IVAN THEODORF GOULD, JR. Baltimore. 713 *Park Av.*
History I.

HELEN GOULD. Baltimore. 2740 *E. Baltimore St.*
Education IV; Psychology II.

NELLIE ESTELLE GRADY. Baltimore. *Homewood Apts.*
Psychology II.

JACOB GRAPE. Baltimore. 333 *E. 22nd St.*
B. S., Johns Hopkins University, 1918. *Education VI.*

ETHEL R. GRAY. Baltimore. 1208 *Madison Av.*
Education V.

BARTOW GRIFFISS. Baltimore Co. *Pikesville.*
Marston's University School. *Philosophy II.*

ARTHUR GROLLMAN. Baltimore. 2520 *McCulloh St.*
Baltimore City College. *Oriental Seminary I.*

CHARLES ALBERT GRUNERT. White Haven, Pa. *Fort McHenry.*
French I; Spanish I.

ROBERT KING GUGGENHEIMER. New York. 2710 *N. Charles St.*
Franklin High School. *Art IV.*

DOROTHY E. GUTTMACHER. Baltimore. *Marlborough Apts.*
Psychology II.

GRACE MAYNARD HADLEY. Roselle, N. J. 2322 *N. Calvert St.*
A. B., Vassar College, 1917. *Art I and IV.*

M. SUSIE HALL. Baltimore. 3120 *Abell Av.*
English I.

HELEN ELIZABETH HAMBLET. Lawrence, Mass. *Fort McHenry.*
Philosophy II.

SYDNEY SPEIDEN HANDY. Annapolis. *St. John's College.*
M. A., Columbia University, 1919. *Psychology II.*

EDYTHE B. HANZSCHE. Baltimore. 1323 *Edmondson Av.*
Education V.

MILDRED HARDENBROOK. Valatie, N. Y. 208 *W. 27th St.*
A. B., Vassar College, 1908, and A. M., 1909. *French II and III.*

ROSE HARDING (Mrs.) Baltimore. 722 *E. 21st St.*
Art IV.

ANNIE F. HARRIGAN. Baltimore. 1415 *N. Caroline St.*
Education VII.

ESTHER ANNE HARRISON. Baltimore. 1400 *Eutaw Pl.*
A. B., Goucher College, 1899. *Contemporary European History.*

MARGARET E. HARRISON. Baltimore. 1206 *N. Charles St.*
Russian.

M. ELLA HARRISON. Baltimore. 1400 *Eutaw Pl.*
Ph. B., University of Chicago, 1910; A. M., Johns Hopkins University, 1919. *Education V.*

ANABEL EUGENIA HARTMAN. Baltimore. 914 *N. Carrollton Av.*
A. B., Goucher College, 1908; A. M., Johns Hopkins University, 1918. *Philosophy II; Psychology II.*

ELLA W. HARVEY (Mrs.). Baltimore Co. *Catonsville.*
American Government.

NORMA VIRGINIA HASLUP. Baltimore. 1916 *Kennedy Av.*
A. B., Goucher College, 1915. *English II.*

ANNA VIRGINIA HATTER. Baltimore. 616 *Lennox St.*
English I.

EDWARD PEARCE HAYES. Baltimore. 1003 *W. Lanvale St.*
A. B., Johns Hopkins University, 1916. *Education I, III, IV, and VIII.*

HARRY MILTON HAYTER. Meadow View, Va. 1220 *N. Eden St.*
A. B., Emory and Henry College, 1918. *German I.*

MARIE VIRGINIA HEAPHY. Baltimore. 1718 *St. Paul St.*
Spanish II.

ELEANOR CECILIA HEAVEY. Howard Co. *Ellicott City.*
Spanish II.

JULIA ELIZABETH HEIL. Baltimore. 3308 *Gwynn Oak Av.*
Psychology II.

ROBERT GRAHAM HEINER. Baltimore. 209 *E. Biddle St.*
St. James' School. *Psychology II.*

LOUIS P. HENNINGHAUSEN. Ten Hills. *Edmondson Av. and Nottingham Rd.*
English II.

KATHERINE HESS. Baltimore. 438 *E. Biddle St.*
English I.

PAUL CHRISTOPHER HINRICHS. Baltimore. 2 *W. 39th St.*
Gilman Country School. *Art IV.*

BOSLEY HISS. Baltimore. 1427 *Linden Av.*
Blair Academy. *Art IV; English II; Spanish I.*

ISABELLE GRAHAM HISS. Baltimore. 239 *W. Lafayette Av.*
French III.

CHARLES EDWARD HODES. Baltimore. 725 *E. 21st St.*
English I; Spanish I.

SARAH BUNN DAMPMAN HOEN (Mrs.). Baltimore.
Contemporary European History.
3305 *Waldheim St.*

CLARA HOFMANN. Baltimore. *The Esplanade Apts.*
French Elements.

ELMER RHODES HOKE. Baltimore. 1220 *W. 36th St.*
A. B., Franklin and Marshall College, 1913, and A. M., 1914. *Education VI; Psychology I and II.*

ROY EDWARD HOKE. Baltimore. 1220 *W. 36th St.*
A. B., Franklin and Marshall College, 1916, and A. M., 1917. *Education II; Psychology I and II.*

SUSIE H. HOLLSTEIN. Baltimore. 843 *University Pkwy.*
Education V.

FANNIE E. HOOPES. Baltimore. 1307 *N. Charles St.*
American Government.

EMMA C. HOUSTON. Baltimore. 2427 *Madison Av.*
Education V.

PAO CHAO HSIEH. Canton, China. 2617 *Maryland Av.*
Tsing Hua College. *Psychology II; Russian.*

ETHEL HUBBARD. Baltimore. 1407 *Mt. Royal Av.*
French III.

EDWARD GREENE HUEY. Baltimore Co. *Ruxton.*
Marston's University School. *Art IV.*

WALTER MASSIE HUNDLEY. Farmville, Va. 2743 *Maryland Av.*
Virginia Military Institute, 1904; B. S., Virginia Polytechnic Institute, 1918. *German I.*

BELLA S. HUNTER. Baltimore. 934 *E. Preston St.*
Education VII.

ETHELL AUGUSTA HURLEY. Baltimore. 704 *Cathedral St.*
English I.

CALVIN HYMAN. Baltimore. 1841 *N. Bond St.*
Baltimore Polytechnic Institute. *Latin Elements.*

CHARLTON M. HYNSON (Mrs.). Baltimore. 104 *W. Eager St.*
Psychology II.

ALFREDDA ELOISE IGLEHART. Baltimore. 3901 *St. Paul St.*
French I.

MARION JANNEY. Baltimore. 756 *Reservoir St.*
A. B., Goucher College, 1914. *Education V.*

ELIZABETH C. JENCKS. Baltimore. 1 *W. Mt. Vernon Pl.*
American Government.

ELIZABETH P. JENCKS (Mrs.). Baltimore. 1 *W. Mt. Vernon Pl.*
American Government.

ELLA CELESTE JENKINS. Baltimore. 1728 *W. Lanvale St.*
Education VII.

FRANKLIN PLOTINUS JOHNSON. Osceola, Mo. 2743 *Maryland Av.*
A. B., University of Missouri, 1914, and A. M., 1915. *Art I and IV.*

ISABELLE M. JOHNSTONE. Baltimore. 1517 *Mt. Royal Av.*
History I.

VIRGINIA B. JONES. Baltimore. 2105 *Elsinor Av.*
English I.

ROSINA COBLENS JOSEPH. Baltimore. 1513 *Eutaw Pl.*
French Elements.

ESTHER VAN LEER KATZ. Baltimore. 2214 *Linden Av.*
A. B., Goucher College, 1916; A. M., Columbia University, 1917. *Education VII.*

LUTIE MARGARET KEECH. Baltimore. 2425 *N. Calvert St.*
Contemporary European History.

HENRY WOODHULL KELLEY. Bangor, Me. *Fort McHenry.*
English I.

JOSEPHINE CATHERINE KELLY. Baltimore. 1842 *W. Baltimore St.*
Spanish I.

ALICE KIEFER (Mrs.). Catonsville.
French I. *Osborne & Summit Avs.*

LINUS W. KLINE. Duluth, Minn. 5116 *Center St.* (*Govans*).
L. I., George Peabody College for Teachers, 1889; B. S., Harvard University, 1896; Ph. D., Clark University, 1898. *Art IV; Psychology II.*

EDITH KLINESMITH. Baltimore. 2624 *St. Paul St.*
French II.

ERNESTINE M. KLINZING. Rochester, N. Y. 810 *Park Av.*
French II.

TESSIE F. KOESTLER. Baltimore. 1528 *Eutaw Pl.*
English II.

HILDA A. L. KRATSCH. Balto. 243 *N. Patterson Pk. Av.*
History II B; Spanish I.

RHEA ELIZABETH KRAUS. Irvington. 4213 *Massachusetts Av.*
English I; Spanish I.

ADA ROSE KRUG. Baltimore. 2350 *Frederick Av.*
Education III.

ELIZABETH KRUGER. Baltimore. *Johns Hopkins Hospital.*
American Government.

EMMA EMILY KUEHN. Linthicum Hghts. 943 *N. Calvert St.*
Chemistry I.

FANNIE KURLAND. Baltimore. 1240 *E. Lexington St.*
Art IV.

BERNHARD KURRELMEYER. Baltimore. 2120 *Maryland Ave.*
Baltimore City College. *Spanish II.*

EMMA ELIZABETH LACHER. Baltimore. 806 *Ridgely St.*
History II B.

STELLA LEONORE LAFOND. Wornsocket, R. I. 14 *E. Franklin St.*
English II.

HATTIE C. LANGLEY. Baltimore. 604 *Woodbourne Av.*
French III.

MARIE A. LARSEN. Baltimore. 625 *St. Paul St.*
Philosophy II.

LEWIS MONCURE LATANÉ. Richmond, Va. *Y. M. C. A.*
A. B., Richmond College, 1917. *German I.*

ESTHER LAZARUS. Baltimore. 2131 *Callow Av.*
Psychology II.

CHARLES TUDOR LEBER. Baltimore. 153 *W. Lafayette Av.*
Baltimore City College. *Psychology II.*

MABEL PORTER LEEF. Baltimore. 1002 *Beaumont Av., Govans.*
History II B.

MARY J. LEESE. Baltimore. 1120 *Barclay St.*
Education VII.

JOHN VERNON LEMMERT. Baltimore. 2214 *Ruskin Av.*
Baltimore City College. *English I.*

MYRTLE MATILDA LENDERKING. Baltimore. 718 *N. Fulton Av.*
Psychology II.

CHARLES EDWARD LENZ, JR. Baltimore. 1128 *W. North Av.*
Psychology II.

CHARLES CARROLL FULTON LESER. Baltimore. *Albion Hotel.*
Marston's University School. *English II; Spanish I.*

FREDERICA FULTON LESER. Baltimore. *Albion Hotel.*
English II; History I.

ADELAIDE LEVI. Baltimore. 951 *Bennett Pl.*
French Elements.

NANNETTE LEVIN. Baltimore. 930 *Chauncey Av.*
Russian.

EUGENE LEVY. Baltimore. 1936 *Linden Av.*
Psychology II.

MABEL V. LEVY. Baltimore. 1936 *Linden Av.*
Psychology II.

JOHN HENRY LEWIN. Parkton. 3004 *N. Calvert St.*
Tome School. *English II.*

FRANCIS WASHINGTON LEWIS (Mrs.) Baltimore. *Homewood Apts.*
Art IV.

LEONARD NOEL LINSLEY. Baltimore. 120 *Jackson Pl.*
M. S., Columbia University, 1916. *French I.*

HELEN LIPMAN. Baltimore. 1626 *Madison Av.*
Psychology II.

MARIE CATHERINE LITTLE. Baltimore. *Poplar Grove and Baker Sts.*
Education I.

YUNG JAO LOE. Tientsien, China. 2627 *Maryland Av.*
Tientsien Anglo-Chinese College. *Art IV; Russian.*

EMMA LOHRFINK. Baltimore. 510 *E. 21st St.*
Education VI.

KWANG LAI LOU. Chekiang, China. 2625 *Maryland Av.*
Tsing Hua College. *Latin Elements; Psychology II.*

IDA CLAIRE LUTZKY. Baltimore. 2201 *Division St.*
English I.

BLANCHE MACCARTHY. Baltimore. 2052 *Linden Av.*
Education IX.

DONALD HECTOR MACDONALD. Baltimore. 1540 *N. Broadway.*
Baltimore City College. *Art IV.*

LOUIS EPHRAIM MACHT. Baltimore. 1716 *N. Fulton Av.*
Baltimore City College. *French III.*

HAMLINE BAKER MAGINNIS. Baltimore. 700 *E. 21st St.*
Education VIII; History II B.

ELIZABETH M. MAKIBBIN. Baltimore. 920 *N. Fremont St.*
Art IV.

WILLIAM CASSELL MALLALIEU. Baltimore. 2517 *Barclay St.*
Education I and II.

MATILDA BACKUS MALOY (Mrs.). Baltimore. 1041 *N. Eutaw St.*
Spanish II.

FRANCES JOSEPHINE MANN. Baltimore. 2647 *N. Calvert St.*
French IV.

F. MARION MANNING. Baltimore. 3421 *Mondawmin Av.*
French Elements.

ANNA M. MANSON. Baltimore. 625 *St. Paul St.*
Philosophy II.

GUSSIE SHUTZE MANSON. (Mrs.). Baltimore. 2200 *Elsinor Av.*
English I.

CHARLES CLAGETT MARBURY. Upper Marlboro. 159 W. Lanvale St.
Emerson Institute (D. C.). *French III.*

SAMUEL FREDERICK MARSHALL. Hagerstown. 601 *Cathedral St.*
Washington County High School. *English I.*

CHARLES RICHARD MARTIN, JR. Baltimore. 601 *E. 28th St.*
Baltimore City College. *Art IV.*

JOHANNES M. MATTERN. Baltimore. 2611 *Maryland Av.*
Universities of Muenster and Bonn. *Education I.*

MARY WATERS MATTHEWS (Mrs.). Baltimore. 3919 *Canterbury Rd.*
History I.

CECILIA AGNES MCCARDELL. Baltimore. 441 *E. 25th St.*
English II.

FREDERICK CLARKE MCCORMACH. Baltimore. *Emerson Hotel.*
Chemistry I (A).

SARAH FRANCES MCGINITY. Baltimore. 102 *E. Virginia Av.*
French Elements.

HELEN V. MCHALE. Baltimore. 419 *E. Fort Av.*
French Elements.

ROBERT WITHERSPOON MCKAY. Sumter, N. C. 1012 *N. Broadway.*
A. B., University of Virginia, 1917. *Chemistry III.*

ELIZABETH MAINSTER MCLAIN. Baltimore. 715 *Gorsuch Av.*
English II.

MAUDE OCTAVIA MCLELLAN. Baltimore. 2018 *Fairmount Av.*
Education VII.

CHARLES MCMULLEN. Baltimore. 1019 *W. Lanvale St.*
French III; Spanish II.

MARTHA HASKINS MEADE. Baltimore. 517 *Roland Av.*
Chemistry I; English I.

HELEN RAY MEDAIRY. Baltimore. 2719 *St. Paul St.*
Art IV.

CHARLES HAMILTON MEDDERS. Baltimore. 206 *E. Preston St.*
Chemistry III; English I; History II B; Latin Elements.

ANNIE G. MELVIN. Baltimore. 725 *N. Fremont Av.*
History I.

ETHEL BAILEY MELVIN. Baltimore. 725 *N. Fremont Av.*
History I.

ROBERT GRAFF MERRICK. Baltimore. 104 *W. Eager St.*
A. B., Johns Hopkins University, 1917. *Psychology II.*

HAROLD H. MERSEREAU. Brooklyn, N. Y. 2011 *Bolton St.*
Donaldson School. *Education I; Oriental Seminary IV; Psychology II.*

ANNIE CATHERINE MEUSHAW. Govans. 812 *Winston Av.*
History II B; Russian.

MYRTLE MEUSHAW. Baltimore. 2104 *Allendale St.*
Spanish I.

BEATRICE MEYER. Baltimore. 2250 *Brookfield Av.*
English I.

MORRIS MEYER. Baltimore. 1615 *Moreland Av.*
Psychology II.

CASIMIR A. MIKETTA. Baltimore. 3042 *Remington Av.*
French Elements.

GEORGE EDGAR MILLER. Gettysburg, Pa. 1511 *Linden Av.*
B. S., Pennsylvania College, 1918. *French I.*

HENRY S. MILLER. Baltimore. *Esplanade Apts.*
A. B., Johns Hopkins University, 1919. *Psychology II.*

ISABELLE MILLER. Baltimore. 3303 *Walbrook Av.*
French II.

JULIA L. MILLER. Baltimore. 711 *Gladstone Av.*
Art IV.

ELIZABETH MINNICK. Baltimore. 1710 *Hollins St.*
Education V.

MARTHA ELLEN MINSKER. Baltimore. 2214 *W. Fayette St.*
English II.

CORNELIA ESTHER MONTAGUE. Baltimore. 3906 *Garrison Av.*
Spanish I.

EDGAR A. MORGAN.* Baltimore. 2827 *Walbrook Av.*
A. B., University of Illlinois, 1906. *History I.*

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* Died, February 5, 1920.

HENRY HAYLES MORRISS. Baltimore. 1904 *Mt. Royal Ter.*
Haverford College. *Art I.*

ABRAM MOSES. Baltimore. 1803 *Eutaw Pl.*
Art IV.

CAROLINE ELDEN GUTMAN MOSES (Mrs.). Baltimore. 1803 *Eutaw Pl.*
Art IV; Chemistry I (A), *II* (A), *and III* (A).

WILLIAMSON WADE MOSS, JR. Baltimore. 923 *Poplar Grove St.*
Chemistry I; English I; Spanish I..

KATHERINE FRANCES MUESSE. Baltimore. 1248 *N. Broadway.*
Psychology II.

MANUEL ABERTO MULANOVICH. Peru, S. A. 3017 *N. Calvert St.*
English I (*A*); *French Elements* (*A*); *German I; Latin Elements.*

DOROTHY LOUISE MULLER. Baltimore. 1211 *Cathedral St.*
English I.

MARY H. MULLIKIN. Baltimore. 1316 *Eutaw Pl.*
Education V.

LAWRENCE DIXON MURPHY. Baltimore. 3040 *Guilford Av.*
Catholic University. *Latin Elements; Philosophy I.*

ELISABETH MURRAY. Balto. 200 *S. Patterson Pk. Av.*
English I.

LUCY EMORY MURRAY. Baltimore. 716 *Reservoir St.*
Contemporary European History.

LOUIS HASTINGS NAYLOR. Baltimore Co. *Pikesville.*
A. B., Johns Hopkins University, 1917. *German I; Spanish II.*

ELEANOR RITCHIE NALLE. Somerset, Va. *The Greenway Apts.*
Biology I (A); *Chemistry I* (A).

ANNIE W. NICHOLSON. Baltimore. 1710 *Hollins St.*
Education V.

HENRY EDWARD NILES. Baltimore. 2010 *Edgewood St.*
Baltimore Polytechnic Institute. *Oriental Seminary III; Psychology II.*

LESLIE MARVIN NOLAND. Baltimore. 805 *East E St., Sparrows Point.*
English I.

EDWARD TAYLOR NORRIS. Baltimore. 1203 *N. Charles St.*
Marston's University School. *English II.*

NELLIE S. NORRIS. Baltimore. 3026 *St. Paul St.*
Art IV.

MARIE CECELIA O'BRIEN. Baltimore. 322 *N. Stricker St.*
French Elements.

SARAH E. O'CONNNELL. Baltimore. 2816 *N. Calvert St.*
French Elements.

MARIE O'DEA. Baltimore. 202 *Monastery Av.*
French I; Spanish I.

STEPHEN WILLIAM ORNE, JR. Baltimore. 2011 *Bolton St.*
Baltimore Polytechnic Institute. *Psychology II.*

CARTER G. OSBURN, JR. Baltimore. 704 *Cathedral St.*
History I; Psychology I and II.

HELEN B. PALEN. Baltimore. 1511 *Bolton St.*
Education V; Contemporary European History.

EVA ANNA PALMER. Baltimore. *The Boulevard Apts.*
Psychology II.

GOLDIE PAREGOL. Baltimore. 1536 *E. Monument St.*
Psychology I.

ELIZABETH PARKER. Baltimore. 615 *St. Paul St.*
Chemistry I; Animal Behavior.

GRACE DUDREA PARKER (Mrs.). Baltimore. 913 *St. Paul St.*
English IV (G); *French I.*

RICHARD ALEXANDER PARKER. Baltimore. 1633 *W. North Av.*
Baltimore City College. *Oriental Seminary I and IV.*

ESTHER PAULSON. Baltimore. 2104 *E. Fairmount Av.*
French Elements.

GRATTAN PAYNE. Baltimore. 2735 *Maryland Av.*
A. B., Richmond College, 1907, and A. M., 1908. *Education I, III, and VI.*

MERCY BUCHANAN PEFFER (Mrs.). Baltimore. 705 *Roland Av.*
American Government.

HAYNE PERETZ. Baltimore. 1904 *E. Baltimore St.*
Psychology I.

FANNETTE PERLMAN. Baltimore. 2129 *Callow Av.*
Psychology II.

MARGARET G. PERRY. Baltimore. 1137 *N. Fulton Av.*
Education V.

WALTER CREIGH PRESTON. Baltimore. 210 *W. Madison St.*
A. B., Washington and Lee University, 1915. *Chemistry I, II* (A) *and III.*

ETHEL LOUISE PRICE. Sparks.
Education I.

LILLIAN WILHELMINA PRINZ. Baltimore. 423 *S. Ellwood Av.*
Education VII.

A. MODENA PUTTS (Mrs.). Catonsville. *Beechwood Av.*
American Government.

ANNE GILLINGHAM QUINAN. Baltimore. 820 *N. Carey St.*
French Elements.

JESSIE RAINE. Baltimore. 1820 *Linden Av.*
Art IV.

JAMES LINDLEY RANK. Baltimore. 2723 *St. Paul St.*
Frostburg High School. *Education IV and VI; Psychology II.*

CHARLES ALBERT RANKIN. West Chester, Pa. 2629 *N. Calvert St.*
St. Luke's School (Pa.). *Art IV.*

LIZETTE W. REESE. Baltimore. 2926 *Harford Av.*
Education V.

EMILIE SOPHIA FREYA REINHARD. Baltimore. 1400 *Linden Av.*
Contemporary European History.

STANLEY JOHNS REYNOLDS. Baltimore Co. *Overlea.*
Art I.

E. GRACE RICE. Baltimore. 604 *Lennox St.*
S. B., Columbia University, 1909. *Oriental Seminary III.*

ALICE M. RINEHART. Baltimore. 125 *W. Lafayette Av.*
French Elements.

ELSIE E. RINEHART. Baltimore. 1701 *Covington St.*
French Elements.

MARY B. ROCKWOOD. Baltimore. 1217 *Madison Av.*
A. B., Oberlin College, 1879, and A. M., 1894. *Contemporary European History.*

MARY ROGAN. Baltimore. 1748 *Bank St.*
French Elements.

JULIA R. ROGERS. Baltimore. *Greenway & St. Paul St.*
American Government.

VIRGINIA ROGERS. Baltimore. 219 *W. Lafayette Av.*
French III.

BENJAMIN RONES. Baltimore. 1509 *Laurens St.*
Baltimore City College. *Art IV.*

MARION M. KEMPER ROSENBERG (Mrs.). Baltimore. *Rivera Apts.*
Psychology II.

BENJAMIN BRAFMAN ROSENSTOCK. Frederick. 3133 *N. Calvert St.*
Tome School. *Art IV.*

CELIA ROSENTHAL. Baltimore. 246 *S. Eden St.*
Psychology I.

MAUD STANARD ROSS. Baltimore. 2109 *W. Lafayette Av.*
Art II and IV.

JOHN MILTON ROSSING. Baltimore. 2401 *Greenmount Av.*
Dickinson College. *Art I and IV; Education II.*

ELMER VERNON ROTH. Baltimore. 3009 *Garrison Av.*
Psychology II.

PHILLIP ELIAS ROTHMAN. Detroit, Mich. 2639 *N. Charles St.*
Dartmouth College. *Art IV.*

EDNA ROTHHOLZ. Baltimore. 2108 *Bolton St.*
A. B., Goucher College, 1914. *French III.*

FRANCES ROUECHE. Baltimore. *Earl Court Apts.*
French IV.

CARRIE ROW. Baltimore. 2918 *Evergreen Ter.*
French Elements.

HILDA RUBIN. Baltimore. 1835 *Linden Av.*
Psychology II.

ALICE EDITH RUMPH. Birmingham, Ala. 1028 *Cathedral St.*
French IV.

J. FRED RUPPEL. Baltimore. 2003 *W. Baltimore St.*
Education VII.

CLARA ELIZABETH RUSH. Woodstock, Va. 211 *W. Mosher St.*
Education I.

KATHERINE GAUL RUSK. Roland Park. 110 *Elmwood Rd.*
Art I.

WILLIAM SENER RUSK. Roland Park. 110 *Elmwood Rd.*
A. B., Princeton University, 1915. *Art I and IV.*

LEON ROBERT SAIONTZ. Baltimore. 132 *N. Broadway.*
History I; Philosophy II.

ROSE B. SAMUELS (Mrs.) Baltimore. 1928 *Eutaw Pl.*
French Elements.

CARL BENJAMIN SARUBIN. Baltimore. 208 *S. Eden St.*
Baltimore City College. *German I.*

HARRY SCHAD. Baltimore. 1636 *John St.*
B. S., Johns Hopkins University, 1917. *Education I and III; Philosophy II; Psychology II.*

ESTHER SCHAPIRO. Baltimore. 3913 *Maine Av.*
History II B.

SARA CHARLOTTE SCHAPIRO. Baltimore. 3913 *Maine Av.*
History II B.

CARL EDWARD WILLIAM SCHMELL. Baltimore. 1813 *Baker St.*
English I and II.

FLORENCE SCHUBERT. Baltimore. 1256 *N. Broadway.*
A. B., Notre Dame College, 1916. *French I; German I; Philosophy II.*

MARIE ELIZABETH SCHUH. Baltimore. 500 *N. Patterson Pk. Av.*
French Elements.

HANS SCHULER. Baltimore. 7 *E. Lafayette Av.*
Art IV.

PAULA MARGARET SCHULER (Mrs.). Baltimore. 7 *E. Lafayette Av.*
Art II, III (A)), *and IV.*

CARL GUSTAV SCOTT. Englewood, N. J. 3125 *N. Calvert St.*
Latin Elements; Psychology II.

GWENDOLYN GARRETTSON SCOTT. Baltimore. 1119 *N. Charles St.*
English II.

HANNAH SCOTT. Howard Co. *Ellicott City.*
Spanish II.

HELEN TOWNSEND SCOTT. Baltimore. 1119 *N. Charles St.*
A. B., Bryn Mawr College, 1910. *Russian.*

VIRGINIA BLAND SCOTT. Baltimore. 29 *Summit Av.*
Education I.

ELLIS SEIDENMAN. Baltimore. 1810 *Walbrook Av.*
Psychology II.

JULIO A. SESSAREGO. Callao, Peru.
English I; French I (A); *German I; Latin Elements.*

IDA SHAROGRODSKY. Baltimore. 2223 *Eutaw Pl.*
English I; Shakespeare.

MIRIAM W. SHAW. Baltimore. 1818 *W. Baltimore St.*
Education V.

DAVID HENRY SHELLING. Hartford, Conn. 503 *N. Wolfe St.*
Trinity College. *French I.*

HARRY S. SHELLEY. Baltimore. 3849 *Roland Av.*
Boys' Latin School. *English I.*

ELIZABETH T. SHOEMAKER (Mrs.). Baltimore. 1031 *N. Calvert St.*
American Government.

GEORGE SEIDEL SHORTESS. Baltimore. 1613 *E. Lafayette Av.*
Art IV.

CLARA M. SIEGEL. Baltimore. 2213 *Roslyn Av.*
French Elements.

ABRAHAM HAMILTON SILESKY. Baltimore. 1640 *Ruxton Av.*
Baltimore Polytechnic Institute. *English I.*

ELISABETH SILKMAN. Baltimore. 817 *Park Av.*
Education IX.

LINA SIMON (Mrs.) Baltimore. 7 *E. Lafayette Av.*
Spanish I.

HATTIE ELIZABETH SIZER. *Education I.*	Baltimore.	211 *Mosher St.*
EMIL SMITH. Baltimore City College. *Art IV.*	Baltimore.	2118 *Penrose Av.*
KATHARINE HUSTED SMITH. *English I.*	Baltimore.	3802 *Dorchester Rd.*
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ROSAMOND FLOWER SMITH. *English I; Italian II.*	Baltimore.	719 *Park Av.*
EFFIE B. SMITHER. *Education V.*	Baltimore.	528 *N. Calhoun St.*
EMMA A. SNYDER. *Art IV.*	Baltimore.	2114 *W. North Av.*
JEAN CHIRON SNYDER. A. B., Wellesley College, 1918. *Chemistry III.*	Elyria, Ohio.	817 *Park Av.*
SAMUEL WALTER SPARKS. A. B., Washington College, 1909. *Education VI.*	Baltimore.	4505 *Maine Av.*
LILY MATILDA STANSBURY (Mrs.). *French III.*	Baltimore.	86 *Roland Av.*
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SUSAN E. STEUART. *Oriental Seminary I.*	Baltimore.	*Roland Park.*
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MABEL STI NON. *Education V.*	Baltimore.	517 *N. Milton Av.*
BEATRICE DUNDERDALE STOKES. *French III.*	Baltimore.	1639 *N. Calvert St.*
CLYDE HYERS STOUT. Lehigh University. *Spanish I.*	Berwick, Pa.	2743 *Maryland Av.*

WILLIAM LOUIS STRAUS, JR. Baltimore. *Alhambra Apts.*
Harvard University. *Art I and II; Oriental Seminary I.*

WILLIAM ALFRED STRAUSS. *Halethorpe.*
Baltimore City College. *Art I and II; French III.*

FEREBE WESTCOTT STREET (Mrs.). Baltimore. 712 *Park Av.*
Psychology II.

WILLIAM TORMO STROM. Baltimore. 1917 *Park Av.*
St. Michael's High School. *Art I and II; French III; History I.*

FLORENCE STROMBERG. Baltimore. 2106 *Eutaw Pl.*
French Elements.

CLAIRE STRUBE. Baltimore. 3703 *Forest Park Av.*
A. B., Goucher College, 1916, Ph. D., Johns Hopkins University, 1919. *Spanish II.*

EDITH STULMAN. Baltimore. 2127 *Bolton St.*
Psychology II.

REBEKAH SUGAR. Baltimore. 140 *E. Clement St.*
Psychology II.

MARY F. SULTZER. Baltimore. 415 *E. Lafayette Av.*
History II B.

VIRGINIA BREWINGTON SUMMERS. Baltimore. 1542 *Pennsylvania Av.*
English I.

MARGARET GORMLEY SUTHERLAND. Baltimore. 834 *N. Fulton Av.*
Education VII; Psychology II.

WALTER D. SUTTON. Baltimore. 1735 *Bolton St.*
A. B., Johns Hopkins University, 1914. *Education III and VI.*

CLARA VIRGINIA TAPMAN. Catonsville. *Glenwood Av.*
French III.

JOHN CAREY TAYLOR. Baltimore. 1245 *N. Broadway.*
Chemistry I; Education VII and VIII; French II; Spanish I.

RUTH TAYLOR. Baltimore Co. *Emory Grove.*
A. B., Goucher College, 1914. *Education V.*

EDNA ADAIR THOMPSON. Baltimore. 2200 *N. Calvert St.*
Psychology II.

MARY GENEVIEVE THUMAN. Baltimore. 2508 *N. Charles St.*
French I.

HERBERT FREDERICK TRAUT. Pittsburgh, Pa. 1010 *N. Broadway.*
S. B., Whitman College, 1917. *French I.*

MAX TRUBEK. Baltimore. 2202 *W. North Av.*
Brown University. *Art IV; Latin Elements.*

ELIZABETH JANE TRUNDLE. Centreville. *Cathedral and Preston Sts.*
Education VI.

DORA TUCKER. Baltimore. 1714 *E. Baltimore St.*
Psychology I.

ANNE GRACINE TURNBULL (MRS.). Baltimore. 1623 *Park Av.*
American Government.

MILDRED ELIZABETH TYSON. Baltimore. 101 *W. Hamilton Av.*
Education VII.

LENA CHEW VAN BIBBER. Baltimore. 129 *E. North Av.*
B. S., Teachers' College, Columbia University, 1917. *Contemporary European History.*

SARAH VAN SANT. Baltimore. 1516 *Harlem Av.*
Contemporary European History.

ELIZABETH BUFFUM VARNEY. Baltimore. 712 *N. Carey St.*
French I.

ELIZABETH PROVOST VICKERS. Baltimore. 302 *Woodlawn Rd.*
French III.

MARY VIOLA VOLL. Baltimore. 702 *N. Arlington Av.*
French Elements.

M. ELLENOR VOLZ. Baltimore. 2932 *McElderry St.*
English I.

CHARLES H. WAGNER. Baltimore. 2408 *N. Calvert St.*
English I.

MARY ELEANOR KIRKBRIDE WALKER. Baltimore. 2134 *Bolton St.*
French II.

MARY EVELYN WALKER. Baltimore. 1123 *Madison Av.*
Psychology II.

ESTELLE S. WALTERS. Baltimore. 1716 *St. Paul St.*
Education IX.

ELLA LOUISE WARDEN. Baltimore. 125 *W. Lafayette Av.*
French Elements.

JULIA F. WARDSWORTH. Baltimore. 1315 *Harlem Av.*
Education VII.

EDNA ELIZABETH WATSON. Baltimore. 1203 *W. Franklin St.*
Education V.

CELESTE GERNAND WEBER. Baltimore. 1825 *N. Washington St.*
French Elements.

EMMA WEBER. Baltimore. 1315 *N. Charles St.*
American Government.

WILLIAM FRANCIS WEBER. New Haven, Conn. *Fort McHenry.*
Chemistry III (lab.); French II.

JAMES ARTHUR WEINBERG. Lonaconing. 2723 *St. Paul St.*
Dickinson College. *Art IV.*

FRED WEIS. Baltimore. 1110 *N. Eutaw St.*
Art I.

MARY KRAUS WEIS (Mrs.). Baltimore. 1110 *N. Eutaw St.*
Art I.

EDITH ELIZABETH WEST. Baltimore. 1407 *N. Central Av.*
History I.

JAMES POLLARD WHARTON. Baltimore. 224 *W. Lafayette Av.*
Boys' Latin School. *French III; Philosophy II; Russian.*

ALICE ELIZABETH WHEAT. Baltimore. 1036 *Brantly Av.*
French Elements.

SUE BELLE WHITE. Baltimore. 644 *W. Barre St.*
Spanish I.

IDA AMELIA WHOLEY. Baltimore. 2116 *N. Charles St.*
Chemistry III.

BERNICE WIESENFELD. Baltimore. 2328 *Eutaw Pl.*
Biology I (A); English I; Spanish I.

VIRGINIA WIGHTMAN. Baltimore. 1414 *Linden Av.*
Shakespeare.

ADELE MADELEINE WILDES. Edgewood, R. I. *Calvert Ct. Apts.*
A. B., Brown University, 1916, and A. M., 1917. *Art I and IV.*

ANNIE CULLUM WILLIAMS. Baltimore. 3556 *Benson St.*
Education VI (G).

REBECCA KATHERINE WILLIAMS. Baltimore. 1415 *N. Caroline St.*
Education VII.

MARY MARJORIE WILLS. Baltimore. 1012 *W. Lanvale St.*
Education V.

NELLIE MAROA WILMOT. Baltimore. 1217 *St. Paul St.*
Art IV.

MARY CLEOPHAS WILSON. Baltimore. 205 *Hawthorn Rd.*
French II and III.

WILLIAM JOSEPH WISCOTT. Baltimore. 1818 *Ashburton Av.*
Chemistry III (A); Psychology I and II.

RALPH LEROY WITHEROW. Baltimore. 3611 *Fairview Av.*
English I; History II B; Philosophy II.

OLIVER WOLCOTT. East Longmeadow, Mass. *Y. M. C. A.*
Valparaiso University. *Latin Elements.*

CARL GEORGE WOLF. Baltimore. 5202 *Harford Rd.*
A. B., Capitol University, 1907. *Psychology II.*

RENA WOLMAN. Baltimore. 723 *Lennox St.*
Education II, VII and VIII; Psychology II.

MOLLIE W. WOOD. Baltimore. 4110 *Roland Av.*
Education V.

RICHARD MINOT WOOD. Baltimore. *Keyworth Av.*
Andover Academy (Mass.). *English I.*

EVA MYRTLE WOOLFORD. Baltimore. 2122 *E. Lombard St.*
History I.

HELEN J. WORLEY. Baltimore. 229 *E. North Av.*
Education V.

EMMA RUTH WRIGHT. Baltimore. 4023 *Belle Av.*
French Elements.

FANNIE CATHERINE WRIGHT. Baltimore. 4023 *Belle Av.*
French Elements.

VERTREES JUDSON WYCKOFF. Baltimore. 1325 *Madison Av.*
Baltimore City College. *Psychology II.*

IRVIN SHORTESS YEAWORTH. Govans. 6237 *Bellona Av.*
Dickinson College. *Chemistry I.*

URSULA R. S. YEAWORTH. Govans. 6237 *Bellona Av.*
Art I and IV; English I.

HENRY THOMAS YOST. Baltimore. 738 *W. Baltimore St.*
Chemistry I; English II; Spanish I.

(500)

UNIVERSITY EXTENSION CENTER: FREDERICK, MD.

Education IV: Principles of Teaching and Special Methods in Secondary School Subjects

SARAH GRASEY ADAMS. Frederick.
B. L., Mitchel College, 1910.

HARVEY DANIEL BEACHLEY. Thurmont.
A. M., Franklin and Marshall College, 1901.

JAMES COSSIE BIEHL. Frederick.

CHESTER GARFIELD CLEM. Frederick.

MARGARET EICHELBERGER DUVALL. Frederick.

PEARL ALBERTA EADER. Frederick.

OSCAR MATHIAS FOGLE. Brunswick.
A. B., Roanoke College, 1902.

FOSTER EARL GROSSNICKLE. Brunswick.
A. B., Blue Ridge College, 1917; A. M., University of Pennsylvania, 1919.

SPENCER FENTON HARRIS. Frederick.

ANNA TRAIL HELFENSTEIN. Frederick.

ALVEY MICHAEL ISANOGLE. Thurmont.
A. B., St. John's College, 1898.

MARY CATHARINE KAETZEL. Brunswick.

MARGARET HENRIETTA KRUMM. Brunswick.

THOMAS FRANKLIN MARSHALL. Frederick.
A. B., Lake Forest College, 1894; M. A., Columbia University, 1908.

GEORGE LORENZO MILLER. Frederick.
A. B., St. Johns' College, 1908.

REED FOLK MYERS. Frederick.

GEORGE LLOYD PALMER. Frederick.
Johns Hopkins University.

GORDON NEVIN REBERT. Frederick.

MAURICE CHARLES STALLSMITH. Middletown.

CHARLES CALVIN THOMAS STULL. Thurmont.

SPENCER CLARENCE STULL. Frederick.

DOROTHY WHIPP WAREHIME. Frederick.
A. B., Hood College, 1917.

KATHARINE MARIE WIENER. Frederick.

UNIVERSITY EXTENSION CENTER: HAVRE DE GRACE, MD.

Education VII: Elementary Education

M. NELLIE BARRON.	Havre de Grace.
T. CORINNE BROWN. B. S., Columbia University, 1915.	Wilmington, Del.
CHARLOTTE E. CARROLL.	Havre de Grace.
FLORENCE H. CRONIN.	Aberdeen.
S. HELEN CRONIN.	Aberdeen.
SUSIE A. DONNELLY.	Havre de Grace.
BESSIE FORWOOD.	Aberdeen.
SALLIE P. GALLOWAY.	Havre de Grace.
ALICE ISABEL HARKINS.	Havre de Grace.
HELEN REBECCA HOUCK.	Havre de Grace.
PEARL B. HOWARD (Mrs.).	Havre de Grace.
RUTH G. JACKSON.	Aiken.
OLA KIRK.	Magnolia.
MOLLIE R. MASON.	Havre de Grace.
MARGARET B. MCDONALD.	Havre de Grace.
VIRGINIA M. NOWLEN.	Aberdeen.
MATTIE M. OFFLEY.	Havre de Grace.
JAMES HERBERT OWENS. A. B., Randolph Macon College, 1904; A. M., Johns Hopkins University, 1918.	Havre de Grace.
ALICE D. PRICE. A. B., Goucher College, 1917.	Aberdeen.
GRACE RAWLINGS.	Havre de Grace.
HELEN AMANDA RICHARDSON.	Havre de Grace.
DANIEL NORMAN SHARPE.	Havre de Grace.
ESTHER O. SMITH (Mrs.).	Havre de Grace.
LAURA BEATTY TAMMANY.	Havre de Grace.

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UNIVERSITY EXTENSION CENTER: RISING SUN, MD.

Education VII: Elementary Education

MABEL BARBER.	Nottingham, Pa.
ELLA LYNCH BOYD (Mrs.).	Nottingham, Pa.
BLANCHE FORD.	Elkton.
ETHEL M. HALL.	Rising Sun.
BLANCHE MAE HILL.	Rowlandsville.
AIDA B. JOHNSON.	Rising Sun.
ADELINE KIRK (Mrs.).	Magnolia.
ALFRED B. MCVEY. S. B., Delaware College, 1884.	Rising Sun.
LAURA AGNES PRICE.	Rising Sun.
ELSIE PEARL REA.	Port Deposit.
MAUDE M. REYNOLDS.	Rising Sun.
MARGARET ELIZA STEWART.	Rising Sun.
BERTA KIDD TERRY.	Rising Sun.
HELEN MARY THOMPSON.	Port Deposit.

(14)

(Total 633)

EXPLANATION OF COURSE SYMBOLS EMPLOYED ABOVE

(G) = Graduate; (A) = Academic; B = a C. C. for T. alternate; (B. E.) = Business Economics; (H) = School of Hygiene.
Titles indicate new courses not announced in circulars.

ATTENDANTS ON COURSES IN BUSINESS ECONOMICS

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FLORENCE L. ADAMS.	2200 Elsinor Av.	*Advertising.*
MILTON ANDREW ALBERT.	112 S. Ellwood Av.	*Business English.*
VICTOR J. ALBERT.	710 Madison Av.	*Political Economy.*
CECIL EDWARD ALLEN.	Ev'g'r'n Sch. for Blind.	*Salesmanship.*
J. EDWARD ALLENBAUGH.	1816 W. Lombard St.	*Advertising; Salesmanship.*
BENJAMIN M. ALLNUTT.	1234 W. Lafayette Av.	*Business English.*
JAMES J. ALLNUTT.	316 E. 33rd St.	*Foreign Trade and Exchange.*
WILLIAM BAKER ALLNUTT.	1232 W. Lafayette Av.	*Income Tax Acctg.*
JOSEPH GABRIEL AMBROSE.	918 Greenmount Av.	*Salesmanship.*
HARRY V. ANDERSON.	327 E. 24th St.	*Political Economy.*
CARLOS VAZQUEZ ARJONA.	Ponce, Porto Rico.	*Labor Problems; Political Economy.*
DONALD LEE ASHLEY.	6017 Bellona Av.	*Advertising.*
JULIA AUDOUN.	2636 Maryland Av.	*Labor Problems.*
E. STANLEY AULT.	715 E. 20th St.	*Political Economy.*
ADAM KAHLER BACKER.	502 N. Stricker St.	*Business English.*
JOHN W. BACKER.	502 N. Stricker St.	*Investments; Foreign Trade and Exchange; Income Tax Acctg.*
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GUY SOBLE BALSER.	1611 Moreland Av.	*Salesmanship.*
EDWARD J. BANEY.	Catonsville.	*Investments.*
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HOPE HORSEY BARROLL, JR.	University Club.	*Investments.*
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H. ROSS BARTON.	2225 N. Calvert St.	*Income Tax Acctg.*
T. EMERIE BARTON, JR.	52 S. Fulton Av.	*Salesmanship.*

NORMAN LEROY BASSFORD.	1735 Appleton St.	*Investments.*
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ETHEL BECK.	1819 Guilford Av.	*Political Economy.*
FREDERICK W. BECK.	2422 N. Calvert St.	*Income Tax Acctg.*
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JAMES CARROLL BEESE.	704 E. 20th St.	*Salesmanship.*
CATHERINE FOWLER BELL.	28 E. Mt. Vernon Pl.	*Investments.*
JAMES THOMAS BELL.	3212 Westwood Av.	*Income Tax Acctg.*
MARY STUART BELL.	Gilman Apts.	*Political Economy.*
MARGARET BELT.	613 Reservoir St.	*Foreign Trade and Exchange.*
THOS. BLACKBURN BENSON.	1701 N. Charles St.	*Advertising.*
J. ELMER BERL.	928 S. First St.	*Salesmanship.*
GUSTAV BERMAN.	1331 N. Milton Av.	*Advertising; Salesmanship.*
ROBERT J. BERNSTEIN.	Marlborough Apts.	*Salesmanship.*
CORA W. BICKEL.	305 W. Hoffman St.	*Political Economy.*
HARVEY C. BICKEL.	305 W. Hoffman St.	*Political Economy.*
OSBORNE T. BIDDLE.	1110 Jackson St.	*Investments.*
LILLIAN H. BIEDERMANN.	2036 E. Eager St.	*Elementary Acctg.*
WILLIAM THOS. BIEDLER.	2802 Calvert St.	*Political Economy.*
CHARLES EVERETT BILLS.	Newburyport, Mass.	*Labor Problems; Political Economy.*
JAMES B. BIRD.	1110 Edmondson Av.	*Salesmanship.*
ALVIN C. BIRDSALL.	Y. M. C. A. Bldg.	*Merchant Marine Administration.*
ROBERT DUNCAN BLACK.	Towson.	*Salesmanship.*
GRETCHEN BOYD BLAIR.	1610 St. Paul St.	*Advertising.*
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WALTER SWAN BLAKE.	Mt. Washington.	*Salesmanship.*
GEORGE BLAKISTON.	Stevenson.	*Investments.*
J. SELMAN BLAUSTEIN.	805 Chauncey Av.	*Investments.*
BERNHARD A. BLOCH, JR.	Elizabethan Apts.	*Elementary Acctg.; Income Tax Acctg.*
THOMAS SPENCER BLOCHER.	120 Harlem Av.	*Investments.*
FRANK NELSON BOLTON.	Garrison Av.	*Merchant Marine Administration.*
CHARLES P. BONNEY.	Havre de Grace.	*Advertising.*
GEORGE J. BOONE.	817 Winston Av.	*Income Tax Acctg.*
CLIFTON L. BORNEMANN.	5003 Chapanoake Rd.	*Elementary Acctg.*
EMMA CHRISTINE BOSCH.	107 E. 32d St.	*Elementary Acctg.*
CATHERINE N. BOSCHEN.	Raspeburg.	*Business English.*

CHAUNCEY B. BOSLEY.	Riderwood.	*Investments.*
HARRYMAN GIST BOSLEY.	1403 Park Av.	*Investments.*
JOSEPH A. BOSSE.	728 Light St.	*Business English.*
HENRY NEESON BOTTS.	2210 McCulloh St.	*Business English.*
A. MACKALL BOWES.	507 E. 20th St.	*Political Economy.*
JAMES H. BRADY, JR.	804 St. Paul St.	*Investments.*
RICHD. G. BRADYHOUSE, JR.	2940 Winchester St.	*Merchant Marine Administration; Foreign Trade and Exchange.*
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CHARLES WESLEY BRASSE.	2322 Druid Hill Av.	*Salesmanship.*
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CARL GORDON BRIGHTMAN.	207 E. Preston St.	*Salesmanship.*
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G. MILTON BROOKS.	Cockeysville.	*Investments.*
JOHN LEO BROOKS.	3207 Abell Av.	*Business English.*
FRANKLIN STUART BROWN.	411 N. Calhoun St.	*Business English.*
CHALMERS S. BRUMBAUGH.	1020 Cathedral St.	*Investments.*
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CECIL AUSTIN BRYAN.	2812 W. North Av.	*Investments.*
BETH M. BUCHANAN.	Y. W. C. A.	*Elementary Acctg.*
JOHN M. BUCHHEIMER.	401 E. 41st St.	*Political Economy.*
ISADORE M. BUDNICK.	1010 E. Madison St.	*Political Economy; Foreign Trade and Exchange; Elementary Accounting.*
WILLIAM LYLE BULL.	Emerson Hotel.	*Merchant Marine Administration.*
CHARLES PETER BURGER.	123 Montebello Ter.	*Political Economy.*
HARRY JUSTIN BURGESS.	Govans.	*Business English.*
CHARLES ANGUS BURNS.	2872 Woodbrook Av.	*Salesmanship.*
RUTH KATHRYN BUSCH.	4515 Harford Rd.	*Business English.*
FREDERICK M. BUSH.	El Shouf, Syria.	*Foreign Trade.*
HAROLD BERNARD CAHN.	2401 Eutaw Pl.	*Investments; Foreign Trade and Exchange.*
BENJAMIN A. CALDER.	404 E. Lake Av.	*Salesmanship.*
CHARLES EDGAR CALLIS.	2739 Guilford Av.	*Income Tax Acctg.*
HARRY MACKIN CAMPBELL.	2105 W. North Av.	*Political Economy.*
LENNA MAY CAMPBELL.	Y. W. C. A.	*Salesmanship.*
JAMES JOSEPH CARMODY.	4210 Connecticut Av.	*Merchant Marine Administration.*

WARING P. CARRINGTON, JR.	Peabody Apts.	*Investments.*
DELMAR GERTRUDE CARROLL.	726 Dolphin St.	*Business English.*
HERBERT JOSEPH CARTER.	5009 Beauregard Av.	*Business English; Political Economy.*
VIRGINIA ADAMS CARVER.	3725 P'k Heights Av.	*Income Tax Acctg.*
ARTHUR G. CHAMBERLAIN.	Catonsville.	*Investments; Elementary Acctg.*
ROBERT L. CHAMBERLAIN.	1611 Bolton St.	*Business and Social Statistics.*
WILLIAM E. CHAMBERLAIN.	1744 E. Chase St.	*Advertising.*
THOMAS A. CHARLTON.	1517 E. 28th St.	*Advertising.*
WILLIAM E. CHITTICK.	Drovers & Mech. Bk.	*Salesmanship.*
A. J. CLARK.	3001 W. Presstman St.	*Foreign Trade and Exchange.*
EDWARD STRONG CLARK.	Chas. St. Av. & Oak Pl.	*Merchant Marine Administration.*
HANS CLAUSEN.	2 S. Monroe St.	*Merchant Marine Administration.*
ERNEST R. CLEAVELAND.	Y. M. C. A.	*Insurance.*
CLARENCE F. COBOURN.	614 N. Carrollton Av.	*Advertising.*
SALLIE M. COCKEY.	Catonsville.	*Business English.*
HARRY F. COGILL.	3005 N. Calvert St.	*Advertising; Salesmanship.*
DENA COHEN.	1403 N. Charles St.	*Advertising.*
JEANNETTE COHEN.	1403 N. Charles St.	*Income Tax Acctg.*
LOUIS COHEN.	2543 McCulloh St.	*Business English.*
MARIAN C. COHEN.	909 Stiles St.	*Political Economy.*
MEYER COHEN.	2410 Lakeview Av.	*Elementary Acctg.*
SAMUEL COHEN.	4 N. Broadway.	*Advertising.*
WILLIAM COHEN.	1607 W. North Av.	*Advertising.*
EDWARD G. COLE.	2713 Guilford Av.	*Salesmanship.*
LEWIS FRANKLIN COLE.	Towson.	*Salesmanship.*
GEORGE W. COLLARS.	1629 Edmondson Av.	*Salesmanship.*
JAMES F. COLLINS.	3159 Cedar Av.	*Business English.*
ROSE M. B. COLLINS.	Catonsville.	*Business English.*
WALTER FEMBY COMEGYS.	917 N. Broadway.	*Business English.*
EDWARD JOSEPH COOLAHAN.	3406 Norwood Av.	*Political Economy.*
CARRIE E. CORBETT.	1513 Hanover St.	*Political Economy.*
DELPHIA VIOLA CORNELL.	3555 Cedar Av.	*Elementary Acctg.*
MYRON SANDLER COTTON.	2112 Callow Av.	*Investments.*
RONALD ATMORE COX.	Mt. Royal Apts.	*Salesmanship.*
ROBERT A. COXETER.	3219 Vickers Rd.	*Income Tax Acctg.*
ESTHER JOSEPHINE CROOKS.	Lutherville.	*Labor Problems; Americanization.*

EUGENE ALOYSIUS CROW.	113 E. 25th St.	*Business English.*
BERNARD L. CROZIER.	2721 St. Paul St.	*Salesmanship.*
WILLIAM FRANKLIN CRUM.	Y. M. C. A.	*Merchant Marine Administration.*
EDWARD P. CRUMMER.	302 Suffolk Rd	*Salesmanship; Accounting.*
CECIL INGRAM CULLOM.	3618 Springdale Av.	*Business English.*
HARLAN S. CUMMINGS.	1708 St. Paul St.	*Elementary Acctg.; Political Economy.*
JOSEPH LYNCH CURRIN.	1427 Edmondson Av.	*Elementary Acctg.*
MARGARET HARMON CURRY.	904 N. Stricker St.	*Advertising.*
FRANK BATTLE DANCY.	922 St. Paul St.	*Merchant Marine Administration.*
ALAN FLETCHER DANEKER.	Mt. Washington.	*Salesmanship; Foreign Trade.*
W. FRANK DASHIELL.	1620 N. Calvert St.	*Salesmanship.*
MRS. JOHN S. DAVENPORT.	3411 Guilford Ter.	*Elementary Acctg.*
ARTHUR MAURICE DAWSON.	Mt. Royal Apts.	*Investments; Foreign Trade and Exchange.*
ISABEL MARIE DAWSON.	720 E. Preston St.	*Salesmanship.*
FRANK HALE DEADY.	2711 Winchester Av.	*Business English.*
ERNEST POISAL DEKALB.	3207 Belmont Av.	*Political Economy; Advertising.*
JOHN S. DEMPSTER.	1414 Harlem Av.	*Salesmanship.*
HOWARD EUGENE DEMUTH.	5215 Lindenhghts. Av.	*Income Tax Acctg.*
JAMES E. DERENBERGER.	1614 W. Lanvale St.	*Elementary Acctg.*
AUGUST M. DERWART, JR.	112 N. Stricker St.	*Elementary Acctg.*
MAURICE EUGENE DILL.	721 E. 20th St.	*Merchant Marine Administration.*
RUDOLPH DIMLING.	Bancroft Park.	*Political Economy; Advertising.*
JOHN FREDERICK DONOHO.	Plaza Apts.	*Foreign Trade and Exchange; Merchant Marine Administr'n.*
JOHN O'NEILL DORSCH.	841 N. Howard St.	*Income Tax Acctg.*
FREDERICK B. DORTON.	301 Walnut Av.	*Merchant Marine Administration.*
ALPHEUS NORMAN DOSIER.	1722 Carswell St.	*Elementary Accounting.*
HARRY LEROY DUBBELDE.	728 N. Howard St.	*Political Economy.*
WILLIAM A. DUNPHY.	4000 Pk. Hghts. Av.	*Merchant Marine Administration.*
EDMUND F. DUNSTAN.	Central Y. M. C. A.	*Foreign Trade and Exchange; Business and Social Statistics.*

ALEXIUS FAHEY DWYER.	Glyndon.	*Merchant Marine Administration.*
JOHN E. EARECKSON.	2912 Allendale Rd.	*Income Tax Acctg.*
EARLE RICHARD EBE.	Boulevard Apts.	*Merchant Marine Administration.*
EGBERT H. VON EBERHARD.	814 Park Av.	*Political Economy.*
ALFRED THOMAS EDEL.	14 Wendover Rd.	*Income Tax Acctg.*
RICHARD WOODS EDMONDS.	9 Roland Av., R. P.	*Investments.*
JOSEPH WM. EGGLESTON.	2032 E. 31st St.	*Elementary Accounting.*
FRANK EHRLICH.	2205 Callow Av.	*Salesmanship.*
SARA EHRLICH.	2205 Callow Av.	*Business English.*
ALICE LOUISE EILER.	337 Bloom St.	*Elementary Accounting.*
CLARENCE FRED. EIMER.	1823 Warwick Av.	*Elementary Accounting.*
FRIEDA W. EISENNACHER.	422 S. Pulaski St.	*Elementary Accounting.*
LOUIS ELFONT.	2029 W. Baltimore St.	*Advertising.*
MORRIS ELINOFF.	3426 Pk Hghts. Av.	*Advertising.*
LEON J. ENGEL.	2422 Eutaw Pl.	*Salesmanship.*
JOSEPH T. ENGLAND.	1211 N. Calvert St.	*Merchant Marine Administration.*
LAWRENCE E. ENSOR.	Texas.	*Political Economy.*
J. WILLIAM ERMER.	2706 Roslyn Av.	*Political Economy.*
JAMES A. ESKINS.	1714 Belt St.	*Advertising.*
DAVID ROBERT ESKRIDGE.	1701 Baker St.	*Income Tax Acctg.*
ALFRED L. EVANS.	725 E. Biddle St.	*Advertising.*
HENRY COTHEAL EVANS.	Calvert Court Apts.	*Investments.*
W. H. B. EVANS.	543 N. Fulton Av.	*Investments.*
WILLIAM H. EVANS.	2117 Chelsea Av.	*Elementary Accounting.*
ZACCHEUS B. EVANS, JR.	900 E. Preston St.	*Foreign Trade and Exchange.*
IRA B. FADER.	934 Brooks Lane.	*Advertising.*
ERNEST F. FADUM.	1925 E. 30th St.	*Insurance.*
RUTH NAOMI FAIRALL.	1913 Riggs Av.	*Business English.*
WILLIAM M. FARLEY.	3206 Abell Av.	*Foreign Trade and Exchange.*
JOHN WILLIAM FARRELL.	4108 Maine Av.	*Salesmanship.*
MORRIS FEDDER.	2047 Pennsylvania Av.	*Investments.*
HARRY L. FEELEY.	1719 W. Fayette St.	*Investments.*
LAWRENCE B. FENNEMAN.	1850 W. Balto. St.	*Labor Problems.*
MELVIN FIELD.	Rialto Apts.	*Business English.*
RICHARD LANE FIELD.	304 Robert St.	*Advertising.*
GEORGE EDWARD FINCK.	1932 E. 31st St.	*Salesmanship.*
ISIDOR S. FINEMAN.	800 Newington Av.	*Investments.*
CLAUDE IGNATIUS FINNAN.	1807 N. Calvert St.	*Political Economy; Income Tax Acctg.*

ALICE R. FISHER.	2715 Guilford Av.	*Investments.*
CHARLES THOMAS FISHER.	Towson.	*Business English.*
JAMES CARL FISHER.		*Salesmanship.*
JAMES WILLIAM FISHER.	3505 Roland Av.	*Business English.*
HERMAN L. FISKE.	25 E. 21st St.	*Salesmanship.*
SYLVAN K. FLEISHMANN.	3938 Pk. Hghts. Av.	*Salesmanship.*
LEWIS S. FORNEY.	3816 Dalrymple Av.	*Business and Social Statistics.*
E. EDMUNDS FOSTER.	924 Equitable Bldg.	*Merchant Marine Administration.*
REUBEN FOSTER.	23 E. 22nd St.	*Labor Problems.*
WILLIAM EDWARD FOWLER.	Leeds and W'kins Avs.	*Elementary Accounting.*
CHARLES FOX.	3607 Eastern Av.	*Political Economy.*
HARRY LEE FOX.	950 Bennett Pl.	*Salesmanship.*
HENRY WILLIAM FOX.	1208 Madison Av.	*Salesmanship.*
L. SYDNEY FOX.	1208 Madison Av.	*Political Economy.*
MARBURY B. FOX.	Raspeburg.	*Salesmanship.*
ROBERT FRANCE.	219 W. Lanvale St.	*Investments.*
EDWIN H. FRAZIER.	1806 Dukeland Av.	*Income Tax Acctg.*
MARY G. FREEMAN.	2200 Montebello Av.	*Elementary Accounting.*
CARROLL EIKER FRENCH.	Monmouth, Ill.	*Statistics.*
ROBERT DENISON FRICK.	1503 Bolton St.	*Merchant Marine Administration.*
JOHN BURR FROSST.	601 Cathedral St.	*Political Economy; Labor Problems.*
FRANK FOREST FULENWIDER.	4008 Maine Av.	*Elementary Accounting.*
WILLIAM M. GARDNER.	6 W. Preston St.	*Investments; Acctg.*
JAMES D. GARRETT.	325 E. 20th St.	*Investments.*
JOHN MILTON GEIST.	**1019 Linden Av.**	*Salesmanship.*
WILLIAM JOSEPH GERBIG.	2215 Wilkins Av.	*Elementary Accounting.*
HOWARD DISNEY GERHARDT.	Hamilton.	*Salesmanship; Advertising.*
ANNA BARBARA GERSTMYER.	1640 N. Broadway.	*Business English.*
WALTER WM. GESSFORD.	Mt. Washington.	*Merchant Marine Administration.*
EDWIN C. F. GIBBONS.	1221 N. Milton Av.	*Salesmanship.*
CORNELIA ANDREWS GIBBS.	1209 St. Paul St.	*Political Economy.*
HELEN W. GIBBS.	1209 St. Paul St.	*Political Economy.*
CHARLES ALBERT GIBNEY.	1828 Lanvale St.	*Foreign Trade and Exchange.*
WILLIAM R. GIBSON.	2314 Reisterstown Rd.	*Income Tax Acctg.*
REGINALD HEYWARD GIESE.	1226 N. Calvert St.	*Investments.*
KATHRYN SANDER GILL.	500 E. 23rd St.	*Elementary Accounting.*

GUY GINSBERG.	734 W. North Av.	*Salesmanship.*
SOLOMON GLASS.	3817 Reisterstown Rd.	*Political Economy; Business English.*
HULST GLENN, JR.	603 E. 41st St.	*Advertising.*
MAURICE GLICK.	2066 Linden Av.	*Salesmanship.*
HARRY H. GOLDBERG.	1520 E. Baltimore St.	*Political Economy.*
ARCHIBALD GOLDER.	3508 Fairview Av.	*Foreign Trade and Exchange.*
EDWARD C. GOLDER.	113 Melvin Av.	*Investments.*
WILLIAM W. GOLDER.	113 Melvin Av.	*Investments.*
IRVING C. GOLDSTEIN.	947 Brooks Lane.	*Salesmanship.*
MILTON E. GOLDSTEIN.	947 Brooks Lane.	*Salesmanship.*
MARY JULIA GONTRUM.	Raspeburg.	*Political Economy; Labor Reforms.*
HARRY LEONARD GOODMAN.	1213 N. Caroline St.	*Elementary Accounting.*
RAYMOND T. GOODWIN.	218 N. Milton Av.	*Salesmanship; Business English.*
WM. LAWRENCE GOSNELL.	2509 N. Charles St.	*Merchant Marine Administration.*
ALLEN BUSICK GOUGH.	2633 N. Calvert St.	*Elementary Accounting.*
THOMAS WALTER GOUGH.	Tuscany Apts.	*Business English; Salesmanship.*
CLARENDON I. T. GOULD, JR.	713 Park Av.	*Foreign Trade and Exchange.*
FREDERIC A. GOWER.	605 Keyser Bldg.	*Merchant Marine Administration.*
JOHN HOWARD GRAFFLIN.	Mt. Washington.	*Salesmanship.*
J. A. GRAHAM.	2105 Glenwood Av.	*Investments.*
BESSIE MAY GRANTLIN.	443 E. 28th St.	*Business English.*
HARRY GREENBERG.	1642 Moreland Av.	*Elementary Accounting.*
MOLLYE GREENSTEIN.	1920 W. North Av.	*Labor Problems.*
RAY EDITH GREENSTEIN.	1920 W. North Av.	*Labor Problems.*
WM. GARLAND GRESSITT.	2410 Linden Av.	*Political Economy; Elementary Accounting.*
EDWARD W. R. GRIEVES.	217 Club Rd.	*Investments.*
HERBERT F. GRIFFIN.	White Av., Hamilton.	*Merchant Marine Administration.*
HIRAM CLEAVER GRIFFIN.	1403 John St.	*Political Economy.*
HELDMAN J. GRINSFELDER.	2020 Eutaw Pl.	*Elementary Accounting.*
LEANDER LEROY GRITZAN.	2508 Elsinor Av.	*Salesmanship.*
CHARLES FREDK. GROSS.	916 E. North Av.	*Merchant Marine Administration.*
F. ADELE GROTE.	3292 Vickers Rd.	*Political Economy; Investments.*

LILLIAN H. GROTHEY.	Brooklyn.	*Foreign Trade and Exchange.*
ELMER GRUMMON.	322 E. 33rd St.	*Advertising; Salesmanship.*
CHARLES ALBERT GRUNERT.	Fort McHenry.	*Political Economy; Acctg.; Foreign Trade.*
CHAS. O. GUNTHER, JR.	1741 E. Lanvale St.	*Elementary Acctg.*
DOROTHY E. GUTTMACHER.	Marlborough Apts.	*Advertising.*
FRANK B. HABERCAM.	423 E. Lanvale St.	*Salesmanship; Advertising.*
HYMAN HAFFNER.	907 Fawn St.	*Foreign Trade and Exchange.*
HAZEN ASHMORE HAILE.	1906 Kennedy Av.	*Income Tax Acctg.*
ROBERT SHANNON HALL.	Clark's Lane.	*Advertising.*
JESSE M. HALLE.	2222 Callow Av.	*Elementary Accounting.*
JAMES WALTER HAMILTON.	105 S. Linwood Av.	*Political Economy.*
HENRY G. HAMMAN.	33 Harford Rd.	*Elementary Accounting.*
SADYE BELLE HANDEN.	14 N. P'ter'sn Pk. Av.	*Business English.*
CLARA M. HARDEN.	1913 Harlem Av.	*Income Tax Acctg.*
ANDREW JACKSON HARPER.	4th Av., Rognel Hths.	*Merchant Marine Administration.*
CHAS. HAMILTON HARPER.	1730 N. Broadway.	*Business English; Merchant Marine Administration.*
B. AUBREY HARRIS.	1921 St. Paul St.	*Salesmanship.*
FRANCIS M. HARRIS.	Parkville.	*Investments.*
HOWARD E. HARRISON.	735 E. 23rd St.	*Salesmanship.*
PHILIP H. HARRISON.	Baltimore Club.	*Investments.*
KARL HARTIG.	1012 Brantly Av.	*Political Economy; Elementary Accounting; Salesmanship.*
ADOLPH HARVITT.	Davison Chemical Co.	*Merchant Marine Administration.*
EDWARD W. HAVARD.	1502 Eutaw Pl.	*Advertising; Salesmanship.*
CHARLES NORRIS HAWKINS.	3132 Foster Av.	*Business and Social Statistics.*
HARRY M. HAX.	3122 Harford Av.	*Salesmanship.*
BENJAMIN H. HEATH.	6002 York Rd.	*Investments; Foreign Trade and Exchange.*
EDGAR LOUIS HEAVER.	Pk. Hts. Av. & 7 Ml. L.	*Investments.*
FLORENCE M. HECKROTTE.	1402 Eutaw Pl.	*Investments.*
H. HEIMLICHER.	Central Y. M. C. A.	*Foreign Trade and Exchange.*

HENRY HERBERT.	2815 Rockrose Av.	*Foreign Trade and Exchange.*
GODFREY A. HERDER.	2123 E. Preston St.	*Investments.*
OLLIE H. HERDER.	1347 Hull St.	*Business English.*
JACOB PAUL HERITAGE.	4650 Kenwood Av.	*Salesmanship.*
S. WEBB HERSPERGER.	Seneca.	*Business English.*
EMANUEL SALABES HESS.	1900 Madison Av.	*Business and Social Statistics; Elementary Accounting.*
SILAS H. HESS.	2131 Cliftwood Av.	*Business English.*
MARTIN M. HIHN.	1822 Gough St.	*Americanization.*
JAMES WARREN HILBERT.	3807 Fait Av.	*Business and Social Statistics.*
HARRY EARNSHAW HILL, JR.	1903 Park Av.	*Merchant Marine Administration.*
CHAS. FERDINAND HOEFEL.	1678 Darley Av.	*Elementary Accounting.*
EMIL LOUIS HOEN.	1701 N. Charles St.	*Political Economy.*
WILLIAM MARTIN HOLLS.	2413 Guilford Av.	*Income Tax Acctg.; Elementary Accounting.*
BESSIE E. HOLTMAN.	Ellicott City.	*Elementary Accounting.*
JAMES LINDLEY HOOD.	1802 W. Lombard St.	*Merchant Marine Administration.*
MARTHA KENLEY HOOK.	1012 W. Lanvale St.	*Political Economy.*
CHARLES EARLE HOOPER.	1034 W. Franklin St.	*Elementary Accounting.*
J. DAVID HOPKINS.	3042 Dillon St.	*Merchant Marine Administration.*
FRANK C. B. HORLEBEIN.	2819 Winchester St.	*Political Economy.*
WILLIAM V. HORNER.	914 N. Fulton Av.	*Income Tax Acctg.*
PAO CHÁO HSIEH.	2617 Maryland Av.	*Labor Problems; Insurance; Foreign Trade; Income Tax Acctg.*
GEORGE J. HUBER.	1618 E. Federal St.	*Income Tax Acctg.*
WILLIAM JOHN HUBER.	1630 E. Federal St.	*Investments.*
JOSEPH RAYMOND HUGHES.	2440 Edmondson Av.	*Salesmanship.*
IRA NEWTON HULL.	216 E. 23rd St.	*Foreign Trade and Exchange.*
ANDREW J. HUNDERTMARK.	655 Portland St.	*Business English.*
EARLE L. HUNTER.	Annapolis.	*Foreign Trade; Statistics; Accounting.*
WILLIAM LEWIS IVES.	317 Augusta Av.	*Salesmanship.*
JOHN MARTIN JACOBS.	Fort McHenry.	*Elementary Accounting; Foreign Trade and Exchange; Political Economy.*

CHAS. IGNATIUS JAMIESON.	308 Collins Av.	*Political Economy; Foreign Trade and Exchange.*
EDNA MAY JAMISON.	2913 Riggs Av.	*Income Tax Acctg.*
J. C. JENKINS.	Park Bank.	*Foreign Trade and Exchange.*
C. E. JOHNSON.	4907 York Rd.	*Elementary Accounting.*
EDWARD L. JOHNSON.	2801 Hilldale Av.	*Salesmanship.*
JOHN T. F. JOHNSON.	5141 Palmer Av.	*Merchant Marine Administration.*
KENNETH C. JOHNSON.	5141 Palmer Av.	*Merchant Marine Administration.*
OSCAR G. JOHNSON.	Lansdowne.	*Advertising.*
JOHN ARNOLD JOHNSTON.	417 N. Charles St.	*Investments.*
ELISHA R. JONES.	2902 N. Calvert St.	*Investments.*
ELMER J. JONES, JR.	2014 Edgewood St.	*Advertising.*
PAULINE THOMAS JONES.	1506 Harlem Av.	*Business English.*
MAX JOSEPH.	112 Aisquith St.	*Income Tax Acctg.*
DOROTHY CAROLINE KAHN.	Mt. Holly Inn.	*Business and Social Statistics.*
JAMES JOSEPH KAMINSKI.	1707 Bank St.	*Business English.*
SAMUEL D. KAPLAN.	125 Lloyd St.	*Salesmanship.*
WILLIAM E. KATENKAMP.	4006 Edmondson Av.	*Foreign Trade and Exchange.*
HILDA V. L. KATZ.	2214 Linden Av.	*Advertising.*
M. SHAKMAN KATZ.	Esplanade Apts.	*Advertising.*
ARTHUR D. KAUFMAN.	Park View Apts.	*Political Economy.*
CLARENCE KAUFMAN.	Granada Apts.	*Political Economy.*
BLANCHE KEEN.	2000 Clifton Av.	*Business English.*
EDWARD KEGAN.	Swan Av. N. of Edm.	*Political Economy.*
BENJ. FRANKLIN KENNEY.	2307 Elsinor Av.	*Investments.*
GEORGE A. KENT.	Fort McHenry.	*Foreign Trade; Acctg.*
HERBERT G. KIEFER.	Catonsville.	*Political Economy; Elementary Accounting.*
HAROLD DAVIS KING.	2609 Chelsea St.	*Merchant Marine Administration.*
RICHARD NORRIS KING.	605 St. Paul St.	*Merchant Marine Administration.*
MAMIE T. KIRK.	1012 W. Lanvale St.	*Business English.*
CHARLES LESTER KISER.	1827 Whitmore Av.	*Salesmanship.*
LENA MARGUERITE KNECHT.	Lauraville.	*Elementary Accounting.*
JAMES M. KNIGHT.	2108 Eidman Av.	*Merchant Marine Administration.*
HOWARD P. KNIGHTON.	1511 N. Broadway.	*Business English.*

BERNARD L. B. KOHN.	Mt. Washington.	*Elementary Accounting.*
BERTHA J. KOLLMEYER.	3509 Powhatan Av.	*Business and Social Statistics.*
JOHN A. KORFF.	3914 Maine Av.	*Americanization.*
LILLIAN D. KRAIL.	1526 N. Pat'sn Pk. Av.	*Business English.*
CHRISTINE META KRATZ.	744 W. North Av.	*Elementary Accounting.*
LEO KRIEGEL.	2503 McCulloh St.	*Elementary Acctg.*
FLORENCE MARIE KRIEGER.	1112 N. Central Av.	*Business English.*
ISABELLE C. KRIEGER.	1112 N. Central Av.	*Business English.*
ALBERT GEORGE KRUMM.	44 White Av.	*Investments.*
EMMA ELIZABETH LACHER.	806 Ridgeley St.	*Business English.*
C. M. LANCASTER.	Balt. Commercial Bk.	*Foreign Trade and Exchange.*
GEORGE F. LANG.	Nat. Centr. Bank.	*Foreign Trade and Exchange.*
MALCOLM H. LAUCHHEIMER.	2122 Bolton St.	*Income Tax Acctg.*
ROBERTA C. LAUDEMAN.	2405 N. Calvert St.	*Business English.*
ARTHUR H. LAUPHEIMER.	Plymouth Hall Apts.	*Salesmanship.*
WILLIAM R. LAURENCE.	606 Uarkwyrth Av.	*Salesmanship.*
WILLIAM B. LAUTEN.	1413 Longwood Ct.	*Salesmanship.*
PAUL IVAN LEARY.	536 Richwood Av.	*Insurance.*
LEWIS RANDOLPH LEMKE.	Mt. Winans.	*Business and Social Statistics; Foreign Trade and Exchange.*
WILLIAM LENTZ.	Rognel Heights.	*Income Tax Acctg.*
EMIL A. LETZER, JR.	729 E. 22d St.	*Merchant Marine Administration.*
BENJAMIN LEVENE.	2523 McCulloh St.	*Advertising.*
FRANK L. LEWIS.	309 Collins Av.	*Salesmanship.*
LEONARD LIEPMAN.	1817 Madison Av.	*Income Tax Acctg.*
CHARLOTTE C. LIESS.	2208 E. Lanvale St.	*Business English.*
LOUISE WHITE LINTHICUM.	Annapolis.	*Political Economy.*
CAROLYN LINZ.	1002 Light St.	*Business English.*
HERMINE C. LION.	2529 Brookfield Av.	*Elementary Accounting.*
GEORGE D. LIST.	4003 Lib'r'y Hgts. Av.	*Foreign Trade and Exchange.*
FLORENCE JOSEPH LLOYD.	231 N. Calhoun St.	*Political Economy; Elementary Accounting.*
GEORGE WILLIAM LOBER.	211 W. 25th St.	*Merchant Marine Administration.*
CATHERINE THERESA LOGUE.	1618 Holbrook St.	*Business English.*
H. CLEVELAND LOGUE.	338 Presstman St.	*Income Tax Acctg.*
A. WILSON LOMAX.	1729 Montpelier St.	*Elementary Accounting.*
WILLIAM LOOBAN.	1509 E. Baltimore St.	*Salesmanship.*

DOUGLAS GORDON LOVELL.	3 Midvale Rd., R. P.	*Merchant Marine Administration.*
DAISY LOWE.	3039 Brighton St.	*Business English.*
ARTHUR EUGENE LUNDVALL.	846 W. 37th St.	*Political Economy.*
DANIEL A. LYNCH.	110 E. 20th St.	*Investments.*
MORTON MORRIS MACHT.	1441 E. Fayette St.	*Elementary Accounting; Political Economy.*
CHARLES O'D. MACKALL.	1526 Bolton St.	*Salesmanship.*
CLINTON K. MACSHERRY.	325 W'dlawn Rd., R. P.	*Investments.*
MAURICE MAHR.	210 E. Baltimore St.	*Advertising; Salesmanship.*
ABRAHAM B. MAKOVER.	3112 Auchentoroly Ter.	*Income Tax Acctg.*
HELEN MANGER.	1002 Edmondson Av.	*Business English.*
ALBERT E. MARSHALL.	Lombardy Apts.	*Merchant Marine Administration.*
HENRY W. MARSTON.	1323 Madison Av.	*Political Economy.*
OSCAR C. MARTENET, JR.	1705 Park Av.	*Merchant Marine Administration.*
PAUL MASSON.	3116 N. Calvert St.	*Income Tax Acctg.*
HARRY J. MATTHEWS.	1219 N. Calvert St.	*Advertising; Salesmanship.*
JOSHUA MARCH MATTHEWS.	3919 Canterbury Rd.	*Merchant Marine Administration.*
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VERTREES JUDSON WYCKOFF.	1325 Madison Av.	*Social Reform.*

ATTENDANTS ON NIGHT COURSES FOR TECHNICAL WORKERS

CHEMISTRY 1–N

(General Inorganic)

EDITH H. BILL.	Beechfield and Frederick Avs.	
EDWIN V. BINNS.	1115 Poplar Grove St.	*Balto. & Ohio R. R.*
CLARENCE B. BROWN.	Elkton.	*Jessop & Moore Paper Co.*
ARTHUR C. ELDRIDGE.	Myersville.	
CLARENCE E. ERDMAN.	3220 Harford Rd.	*Blaylock-Taylor Rubber Co.*
DEWEY S. FRITZ.	Owings Mills.	
CHARLES GOETZ.	2110 E. Pratt St.	
WILLIAM GOLDMAN.	2332 McCulloh St.	*Cons. Gas & Elec. Co.*
JESSE M. HUFFINGTON.	Central Y. M. C. A.	*U. S. Patent Office.*
BERTHA J. KOLLMEYER.	3509 Powhatan Av.	
WILLIAM T. LEVITT.	Central Y. M. C. A.	
EUGENE McKENNELL.	Catonsville.	*C. A. Gambrill Mfg. Co.*
W. WADE MOSS, JR.	923 Poplar Grove St.	*Balto. & Ohio R. R.*
H. F. MULLIKIN.	Walbert Apts.	
UNA P. OWENS.	4109 Springdale Av.	
W. O. C. OWEN.	4109 Springdale Av.	*Musher & Co.*
L. L. PARKER.	206 E. 25th St.	*Parker Vanilla Products Co.*
EDWARD POHL.	1717 N. Collington Av.	*Bachrach Studio.*
A. G. ROEDER.	Catonsville.	
A. G. THOMPKINS.	2636 Maryland Av.	*Musher & Co.*
NIELS O. URSIN.	511 Linwood Av.	*Hess Steel Co.*
WILLIAM C. WESTHOFF.	1801 W. Pratt St.	*Western Union Tel. Co.*

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CHEMISTRY 2–N

(Qualitative and Quantitative Analysis)

N. V. ACKER.	1809 Bolton St.	*Roland Park Co.*
ROBERT S. ALEXANDER.	2316 E. North Av.	*Bethlehem Steel Co.*
HERMAN G. BRUCHNER.	1801 S. Charles St.	*Sheffield Car Co.*
WILLIAM OSCAR CONWAY.	806 N. Calvert St.	*News Pub. Co.*
J. E. FILDEY.	501 N. Kenwood Av.	*Crown Cork & Seal Co.*
C. M. FLEMMING.	1826 E. Oliver St.	*Wiley & Co.*
HARRY W. FRY.	230 W. Lafayette Av.	*U. S. Indus. Chem. Co.*
HOWARD W. GRACE.	Gardenville.	*Jno. T. Lewis & Bros. Co.*
ALEXANDER M. HINDS.	3917 Liberty Hghts. Av.	

WILLIAM G. HOOVER.	1526 N. Wolfe St.	
MILDRED A. JOHNSON.	2064 Kennedy Av.	*New Amsterdam Caslty. Co.*
MICHAEL J. V. KING, JR.	678 W. Saratoga St.	
GEORGE A. LENTZ.	1241 Battery Av.	*International Co.*
PIERCE T. MEAGHER, JR.	417 N. Curley St.	*Jno. T. Lewis & Bros. Co.*
ALBERT F. METZGER.	3922 Lloyd Av.	
CASIMIR A. MIKETTA.	3042 Remington Av.	*Balt. Polytch. Inst.*
FRANCIS F. PEGRAM, JR.	1312 Bolton St.	
F. K. PICKEL.	Walbert Apts.	*U. S. Custom House.*
LOREN G. POLHAMUS.	512 E. 21st St.	*Edgewood Arsenal.*
EDWARD S. POOLE.	3036 O'Donnell St.	*Standard Oil Co.*
RICHARD A. ROOP.	221 N. Calvert St.	*Balt. Fertilizer Co.*
J. CURTIS SLOCUM.	3012 E. Pratt St.	*Balt. Copper Co.*
JAY MOSLEY SMITH.	Catonsville.	*McCormick & Co.*
ROLAND A. TRESSLER.	502 W. 37th St.	*Bethlehem Shipbldg. Co.*
LESTER A. WELLS.	2121 Lexington St.	*Balt. & Carolina S. S. Co.*

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CHEMISTRY 3–N

(*Organic*)

JAMES A. BLACK.	804 N. Carey St.	*Hynson, Westcott & Dunning.*
H. N. BLINN.	2647 N. Charles St.	*C. A. Gambrill Mfg. Co.*
V. G. BLOEDE, JR.	Catonsville.	*V. G. Bloede Co.*
GUSTAV BORNSCHEUER.	219 Wyman Av.	*U. S. War Dept.*
FREDERICK R. CALKINS, JR.	2932 St. Paul St.	
FRANCISCO DE P. CARRAL.	1702 St. Paul St.	
GEO. SCHOLL CATTANACH.	Govans.	
C. CRESTON COLLINS.	707 N. Gilmor St.	*U. S. Custom House.*
LULA M. DISOSWAY.	1704 E. Lanvale St.	
WALTER BLAINE FELGER.	Normandie Heights.	
HARRY W. FRY.	230 W. Hoffman Av.	*U. S. Indus. Chem. Co.*
THOMAS J. HANLON.	1808 N. Bond St.	*Balto. Postoffice.*
JOSEPH F. HUGHES.		*General Chemical Co.*
W. L. JOHNSON.	1286 Battery Av.	*U. S. Industrial Alcohol Co.*
CHAIM B. KAMENEZKY.	617 S. Broadway.	*Mutual Chemical Co.*
WILLIAM C. MCKENNA.	1107 Sterrett St.	*Emerson Drug Co.*
H. C. MYERS.	520 S. Sharp St.	*U. S. Indus. Chem. Co.*
T. C. SCHAETZLE.	2604 Maryland Av.	*City Hall.*
CARL GUSTAV SCOTT.		
EDITH I. TRAIL.	2817 Parkwood Av.	*Pharmacist.*
ARTHUR H. WALZ.	804 Pennington Av.	*Swift & Co.*
WILLIAM A. WHITTLE.	4634 York Rd.	*Emerson Drug Co.*
JOHN F. WROTEN.	2507 E. Federal St.	

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CIVIL ENGINEERING 1–N

(Reinforced Concrete Construction)

O. EUGENE ADAMS.	2038 Park Av.	
BENJAMIN LOUIS BERMAN.	1331 N. Milton Av.	*City Hall.*
CHARLES H. BORCHERDING.	3022 E.McElderry St.	*J. Henry Miller, Inc.*
H. L. BRITTAIN.	1126 Mosher St.	*Carnegie Steel Co.*
RIGGIN BUCKLER.	529 N. Charles St.	*Sill, Buckler & Fenhagen.*
A. E. COURTS.	Govans.	*United Railways Co.*
PAUL GYNN CROUT.	2307 Barclay St.	
WILLIAM NORTH CROUT.	2307 Barclay St.	*Balt. Dry Docks.*
RALPH W. DWIGHT.	Camp Holabird.	*U. S. Govt.*
WILLIAM H. ENGELHAUPT.	3700 Old Fredk. Rd.	
J. GORDON FITZGERALD.	1445 Riverside Av.	
L. J. GRUEHN.	721 Cator Av.	
E. CHESTER HARRISON.	1749 Wilkins Av.	*Bethlehem Steel Co.*
ROBERT M. HERR.	2339 Mondawmin Av.	*United Railways Co.*
S. R. HOLMES.	2708 Maryland Av.	*United Railways Co.*
HENRY A. KELLER.	222 S.Pattern.Pk.Av.	*E. V. Coonan & Co.*
J. M. KIDD.	Lauraville.	*Carnegie Steel Co.*
IRVIN C. KNOWLES.	710 E. 21st St.	*Cons. Gas & Elec. Co.*
E. W. LAUTERBACH.	1909 E. 28th St.	*Standard Oil Co.*
STANLEY O. LIVINGSTON.	1739 Harford Av.	*Bethlehem Shipbldg. Co.*
JAMES TRACEY LOWES.	2313 Chelsea Av.	*Balt. & Ohio R. R.*
EDWARD C. LUTHER.	2004 Edmondson Av.	*United Railways Co.*
A. MIEDWIG.	329 E. 30th St.	*Construction Div., U. S. A.*
ALEXANDER E. G. MILKTON.	407 N. Charles St.	*Cons. Gas & Elec. Co.*
FRANK A. NICKOLS.	301 E. North Av.	*State Roads Comm.*
LEWIS W. O'CONNOR.	709 N. Fremont St.	*Balt. Highways Dept.*
WILLIAM P. O'TOOLE.	1104 Mosher St.	*Novelty Steam Boiler Wks.*
SUMNER A. PARKER.	913 St. Paul St.	*Armstrong & Parker.*
JAMES N. PLATT.	Fort McHenry.	*U. S. Army.*
J. FRANK REMLEY.	1828 St. Paul St.	*Pa. R. R. Co.*
GEORGE J. RITTER.	708 S. Bouldin St.	*Balt. Copper Co.*
HENRY T. ROEBUCK.	2306 E. Biddle St.	*Balt. & Ohio R. R.*
CLARENCE E. SHRIVER.	607 Dumbarton Av.	*Balt. Paving Comm.*
WILLIAM HOWRY SLASMAN.	2114 N. Calvert St.	*Bethlehem Steel Co.*
W. LLOYD WALLACE.	520 N. Stricker St.	*Balt. Topogr. Survey.*
RALPH B. WITTLER.	1430 N. Bond St.	*United Railways Co.*

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ELECTRICAL ENGINEERING 1–N

(Elements of Electricity and Magnetism; Direct Current Machinery)

CHARLES ADLER, JR.	1718 Eutaw Pl.	*Md. & Pa. R. R.*
EDWARD B. ALDRICH.		*Cons. Gas. & Elec. Co.*
MARTIN JAMES BAYLY.	2769 W. North Av.	*Standard Elec. & Elev. Co.*
FRANK E. BELBOT.	2408 Hudson St.	
EUGENE M. BERTHIER.	4705 Eastern Av.	*Cons. Gas & Elec. Co.*
FRANK J. BOCEK.	935 N. Chester St.	*Balt. Dry Docks Co.*
STANLEY H. BURGEE.	3600 Central Av.	*Cons. Gas & Elec. Co.*
T. E. CHILDS.	815 Greenmount Av.	*United Railways Co.*
P. B. COLLIER.	Sudbrook Pk.	*W., B. & A. R. R. Co.*
F. M. COOKERLY.	918 Greenmount Av.	*Southern Hotel.*
ADOLPH DOEHLER.	1925 Harlem Av.	*U. S. Coast Guard.*
L. D. DONOHUE.	2700 Greenmount Av.	*Cons. Gas & Elec. Co.*
ARTHUR GORMAN DORSEY.	906 Beaumont Av.	*Seitz Auto Co.*
STERLING W. EDWARDS.	635 N. Carey St.	*Cons. Gas & Elec. Co.*
H. C. FOUSTER.	10 E. Virginia Av.	*Cons. Gas & Elec. Co.*
R. E. FREDERICK.		*Cons. Gas & Electric Co.*
HENRY W. L. FRICK.	1200 E. Madison St.	*United Railways Co.*
E. CHARLES GLADDING.	122 S. Potomac St.	
I. P. GLANTZ.	606 Dumbarton Av.	*Cons. Gas & Elec. Co.*
JOHN HASLING, JR.	3118 W. North Av.	*Electrolytic Zinc Co.*
DEWILTON W. HASLUP.	238 Wilson St.	*Cons. Gas & Elec. Co.*
THEODORE W. HENDRICKS.	2413 N. Calvert St.	*U. S. Govt.*
ADAM HUTHWELKER.	218 N. Greene St.	*United Railways Co.*
ARTHUR KAMMER.	1 Carter Av.	*Holmes Electric Co.*
GEORGE W. KELLEY.	Brooklyn.	*U. S. Chemical Co.*
THOMAS B. KELLEY.	1808 Rosedale St.	*Cons. Gas & Elec. Co.*
W. F. KIRWAN.	727 W. North Av.	*C. & P. Telephone Co.*
JAMES F. LARIMORE.	Linthicum Heights.	*U. S. Coast Guard.*
MICHAEL LEVIN.	2204 Jefferson St.	*Blumenthal & Kahn.*
ALVIN C. LOEWER.	1104 Dukeland Av.	*Cons. Gas & Elec. Co.*
JAMES G. MAGILL.	2426 N. Calvert St.	*Cons. Gas & Elec Co.*
JOHN E. MARSHALL, JR.	518 Rossiter Av.	*Black & Decker Mfg. Co.*
ALBERT ALLEN MAYERS.	2548 McCulloh St.	*U. S. Govt.*
JAY MARZOLF MILLER.	4014 Penhurst Av.	*Marsh Elevator Co.*
FRED J. MUELLER.	718 S. Third St.	*Balt. Dry Docks Co.*
ODEN LEROY MULCAHY.	3553 Benson St.	*Balt. Dry Docks Co.*
RICHARD L. O'BRIEN.	3016 W. North Av.	*C. & P. Telephone Co.*
WALTER OSTERLOH.	Irvington.	*United Railways Co.*

G. K. Owens.	1414 W. Lombard St.	*Cons. Gas & Elec. Co.*
G. F. Pain.	115 E. Lombard St.	*Fairbanks, Morse & Co.*
James W. B. Phillips.	720 N. Gilmor St.	*Balt. Copper Co.*
Hermann Priess.	944 N. Broadway.	*Autogenous Machine Co.*
C. F. Reynolds.	Linthicum Heights.	*United Railways Co.*
Louis E. Richwein.	2014 W. Pratt St.	*Standard Elec & Elev. Co.*
Maurice N. Roycroft.	2207 E. Federal St.	*Balt. & Ohio R. R.*
C. J. Rozmary.	425 N. Glover St.	*Union Shipbldg. Co.*
Edward H. Schwartz.	35 Grindon Av.	*Schall-Crouch Auto Co.*
Herman E. Schwartz.	35 Grindon Av.	*Cons. Gas & Elec Co.*
Hyman Shapiro.	1422 E. Fayette St.	
William E. Shipley.	Garrison.	*United Railways Co.*
Harold Short.	1517 N. Wash. St.	*Black & Decker Mfg. Co.*
J. Hooper Smith.	315 E. North Av.	*Gen. Ignitor & Elec. Co.*
Milton L. Spilman.	516 N. Monroe St.	*United Railways Co.*
Robert R. Spriggs.	1207 W. Lanvale St.	*Westinghouse Co.*
Harry Stein.	1626 Madison Av.	*Balt. Postoffice.*
W. Louis Taylor.	1215 William St.	*Cons. Gas & Elec. Co.*
Henry P. Trysnes.	322 E. Lanvale St.	*Balt. Dry Docks Co.*
Joseph R. Tyrrell.	2645 Harlem Av.	*Cons. Gas & Elec. Co.*
E. M. Underwood.	408 N. Hilton St.	*Fairbanks, Morse & Co.*
Elmer R. Uzzell.	2019 Ramsay St.	*C. & P. Telephone Co.*
Joseph F. Vach.	10 S. Potomac St.	*Balt. Tin Decorating Co.*
M. A. Wagner.	Raspeburg.	*J. C. M. Lucas Elec. Co.*

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ELECTRICAL ENGINEERING 2–N

(Elementary Alternating Currents)

T. M. Bartholomee.	2312 Ruskin Av.	*Cons. Gas & Elec. Co.*
R. C. Bonthron.	911 S. East Av.	*Westinghouse Co.*
A. H. Chandler.	2412 Linden Av.	*Cons. Gas & Elec. Co.*
John W. Crowley.	3015 W. North Av.	*Westinghouse Co.*
Frank J. Doyle.	2005 Boone St.	*C. & P. Telephone Co.*
Joseph C. Ebauer.	1607 St. Paul St.	*Penna. R. R.*
Emil W. Elsnic.	827 N. Milton Av.	*C. & P. Telephone Co.*
Charles H. Fielding.	2920 E. Madison St.	*Hess Steel Co.*
Robert K. Gustafson.	115 W. Hamburg St.	*United Railways Co.*
Charles S. Hildebrand.	702 McCabe Av.	*Black & Decker Mfg. Co.*
G. Vernon Hobbs.	1100 N. Monroe St.	*Mt. Vernon-Woodberry Mlls.*
Gilbert F. Kadan.	3520 Roland Av.	*Cons. Gas & Elec. Co.*
Charles Edwin Keyser.	5016 Elmer Av.	*United Railways Co.*
William A. McAvoy.	2906 N. Calvert St.	*Bethlehem Steel Co.*

FRANK MERCERON.	Towson.	*Western Union Tel. Co.*
FRANK MEREDITH.	4608 James Av.	*Cons. Gas & Elec. Co.*
H. OSBORNE MICHAEL.	2819 N. Calvert St.	*Cons. Gas & Elec. Co.*
JOHN THOMAS MOONEY.	1141 N. Gilmor St.	*Durling Elec. Co.*
JAMES W. PEARSON.	764 McHenry St.	*American Wholesale Corp.*
CLARENCE H. PIERSON.	Manhattan and Stuart Avs.	*Maryland Steel Co.*
FRANK F. POLAND.	252 S. Clinton St.	*Balt. Copper Co.*
RALPH B. POWERS.	1835 E. Lafayette Av.	*Winslow, Taylor & Co.*
EDGAR T. RIGG, JR.	3439 Park Hghts. Av.	*United Railways Co.*
LEROY ROBINSON.	1131 Harlem Av.	*Cons. Gas & Elec. Co.*
FRANK A. STANEK.	2207 Ashland Av.	*C. & P. Telephone Co.*
WALTER STUMPF.	Towson.	*Black & Decker Mfg. Co.*
J. LEROY VANNEMAN.	827 Edmondson Av.	*United Railways Co.*
HERMAN A. VON EIFF.	2832 Maryland Av.	*Pa. Water & Power Co.*
C. H. WAHMANN.	3632 Park Hghts. Av	*Julian P. Friez & Sons.*
CHARLES F. WARTHEN.	1635 N. Fulton Av.	*Camp Holabird.*
DEE A. YOUNT.	Central Y. M. C. A.	*Cons. Gas & Elec. Co.*

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ELECTRICAL ENGINEERING 3—N

(*Advanced Alternating Currents*)

IRVIN T. BAKER.	1336 Aisquith St.	*Cons. Gas & Elec. Co.*
WILLIAM H. BECK.	4502 Maine Av.	
H. C. BUSHNELL.	8 E. Read St.	*United Railways Co.*
W. J. CUFF.	723 E. 41st St.	*United Railways Co.*
EZRA BRYANT FELTS.	3930 Lowndes Av.	*Balt. & Ohio R. R.*
GEORGE A. GRAHAM.	2203 Mt. Holly St.	*Signal Corps, U. S. A.*
J. M. HARRISON.	112 S. Mount St.	*Cons. Gas & Elec. Co.*
E. F. HEIM.	Hamilton.	*C. & P. Telephone Co.*
N. B. HIGGINS.	2210 Lyndhurst Av.	*Pa. Water & Power Co.*
FRED. A. LESLIE.	223 N. High St.	*Cons. Gas & Elec. Co.*
WILLIAM B. MOSHER.	25 E. 21st St.	*C. & P. Telephone Co.*
H. M. RAUSHENBACH.	903 N. Gilmor St.	*Cons. Gas & Elec. Co.*
MILTON REINER.	2439 Lakeview Av.	*Crown Cork & Seal Co.*
CARROLL THOMAS.	1730 N. Calvert St.	*United Railways Co.*
H. C. WARD.	Waldorf Hotel.	*Public Service Comm.*

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MECHANICAL ENGINEERING 1–N

(*Machine Design*)

WALTER C. ALVEY.	3308 Harford Rd.	*Crown Cork & Seal Co.*
C. HERBERT BAXLEY.	1126 W. North Av.	*State Dept. of Health.*
S. C. BELT.	1955 W. Lexington St.	*Balt. & Ohio. R. R.*
MORRIS BERCOWITZ.	818 Whitelock St.	*Union Shipbldg. Co.*
ARTHUR W. P. BLOHM.	2206 Walbrook Av.	*State Dept. of Health.*
EDWIN C. CLAYTON.	428 N. Arlington Av.	*Wm. E. Hooper & Sons Co.*
JOHN M. COOK.	6 W. Fort Av.	*Balto. Dry Docks Co.*
LEE DAVIDSON.	2301 Brookfield Av.	*Ottenheimer Bros.*
ELMER C. DAVIS.	2538 McHenry St.	*Balt. & Ohio R. R.*
R. G. FIROVED.	1112 W. Mulberry St.	*Balt. & Ohio R. R.*
LEROY C. GOODMAN.	522 N. Decker Av.	*Crown Cork & Seal Co.*
LEO GOULD.	2740 E. Baltimore St.	*Bethlehem Steel Co.*
C. E. ST. E. GRICE.	2836 Parkwood Av.	*Balt. & Ohio R. R.*
OSCAR R. HAENSLER.	2508 E. Baltimore St.	*Bartlett-Hayward Co.*
CHARLES B. HAYLECK.	3808 Barrington Rd.	*Bartlett-Hayward Co.*
EDWARD JAMET.	702 Spring Hill Ter.	*Southern Can Co.*
FRANK J. JENDREK.	120 W. Lafayette Av.	*Standard Safe & Vault Co.*
PHILLIP A. JOHNSON.	432 E. 22nd St.	*Crown Cork & Seal Co.*
CARL P. KAUFMAN.	1230 S. Carey St.	*Ellicott Mach. Corp.*
ALBERT LANGHEIM, JR.	706 E. Biddle St.	*Bartlett-Hayward Co.*
H. B. MCGLONE.	1630 N. Calvert St.	*Bradstreet Co.*
P. J. MCMILLAN.	1207 John St.	*Crown Cork & Seal Co.*
GEORGE W. NEWTON.	716 E. 41st St.	*Crown Cork & Seal Co.*
J. O'CALLAGHAN.	113 W. Mulberry St.	*Fairbanks, Morse & Co.*
JOHN P. O'CONNOR.	2223 St. Paul St.	*Bethlehem Steel Co.*
LAWRENCE B. RICE.	2029 Wilkens Av.	*Bartlett-Hayward Co.*
CHARLES W. ROBERTS.	1305 N. Fremont Av.	*Chesapeake Iron Works.*
LESTER L. ROBINSON, JR.	Elkridge.	*Balt. & Ohio R. R.*
BRESTLE A. RUPERT.	410 Markland Av.	*Poole Eng. & Mach. Co.*
E. G. SCHMEISSER.	4303 N. Charles St.	*Balt. Oil Engine Co.*
CHARLES SMICKLE.	608 Lennox St.	*Black & Decker Mfg. Co.*
G. W. SMITH.	1925 W. Mulberry St.	*Chesapeake Iron Works.*
WILLIAM F. SPRUCEBANK.	845 W. 37th St.	*Black & Decker Mfg. Co.*
HARRY L. STEINER.	535 Richmond Av.	*Crown Cork & Seal Co.*
CHARLES T. TALBOTT.	309 Scott St.	*Bartlett-Hayward Co.*
L. WHITRIDGE WARREN.	2200 Walbrook Av.	*E. Rolker, Cons. Eng.*
JOHN F. WENGER.	921 S. Charles St.	*Chesapeake Iron Works.*

MECHANICAL ENGINEERING 2–N

(*Heat Engines*)

WALTER W. ADDISON.	1519 W. Fayette St.	*Balt. Tube Co.*
ALBERT N. CHANDLER.	Johns Hopkins Univ.	
THOMAS S. GEORGE.	3915 Liberty Hts. Av.	*C. L. Reeder, Consult. Eng.*
LOUIS N. GOLDRING.	2708 N. Charles St.	(*J. H. U. Student.*)
ALAN L. GORDON.	2804 Overland Av.	*Balt. & Ohio R. R.*
HOWARD L. HOLLAND.	2819 Rayner Av.	*Balt. & Ohio R. R.*
HERBERT KERNGOOD.	Brook's Hall Apts.	*Alma Mfg. Co.*
STEPHEN J. MATOSEC.	1022 Pennington Av.	*Balt. Car & Foundry Co.*
HUGO MELE.	502 N. Payson St.	*Balt. Polytch. Inst.*
EUGENE D. MILENER.	2417 Edmondson Av.	*Cons. Gas & Elec. Co.*
K. W. PAXTON.	2839 Parkwood Av.	*Richard K. Meade Co.*
GRANT N. PEOPLES.	3051 Guilford Av.	*Aberdeen Proving Grounds.*
HENRY L. PRINCE.	4321 Ready Av.	(*J. H. U. Student.*)
JOHN A. ROHRER.	1721 Guilford Av.	*Ottenheimer Bros.*
KURT A. SCHNEIDER.	1049 N. Caroline St.	*Templar Motor Car Co.*
MARTIN A. SEILER.	1618 E. Preston St.	*Standard Oil Co.*
LANE L. SEITZ.	1136 Forest Pl.	*Crane Co.*
AUGUST STIEGLER.	829 N. Montford Av.	*Bartlett-Hayward Co.*
A. J. SUBASKY.	4807 Fleet St.	*Poole Eng. & Mach. Co.*
PAUL E. TIGNOR.	Johns Hopkins Univ.	(*J. H. U. Student.*)
WARREN N. UNDERWOOD.	Sparrows Point.	*Bethlehem Shipbldg. Co.*
WALTER B. WESSELLS.	315 Dolphin St.	(*J. H. U. Student.*)
JOHN H. ZAISER.	213 S. Pulaski St.	*H. E. Crook Co., Inc.*

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MECHANICAL ENGINEERING 3–N

(*Power Plant Design*)

WILLIAM F. BOUTALL.	Central Y. M. C. A.	*Erie City Iron Works.*
CARROLL L. FREEMAN.	406 St. Paul St.	*Balt. Polytech. Inst.*
FRANK L. FREEZE.	1526 John St.	*Balt. Polytech. Inst.*
FRANK C. GIER.	3717 Springdale Av.	*Cons. Gas & Elec. Co.*
GEORGE R. MCDONALD.	620 Bartlett Av.	*Standard Oil Co.*
PAUL C. RENNO.	315 N. Stricker St.	*Balt. & Ohio R. R.*
LEO SCHARFE.	141 Montebello Ter.	*Balt. Tin Decorating Co.*
CHARLES O. SCHOBEL.	2018 E. 31st St.	*Cons. Gas & Elec. Co.*
CARROLL R. SENNER.	McElderry & Streeper Streets.	*C. L. Reeder, Cons. Engr.*
GEORGE S. WOODROW.	3313 Gwynn Oak Av.	*General Chemical Co.*

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MECHANICAL ENGINEERING 4—N

(*Industrial Organization*)

WALTER W. ADDISON.	1519 W. Fayette St.	*Balt. Tube Co., Inc.*
O. L. ANDREWS.	2704 Elsinore Av.	*Balt. Dry Docks Co.*
ELI BAKER.	2309 Mondawmin Av.	
HENRY I. BITTORF.	2219 Elsinore Av.	*Standard Oil Co.*
FRANK E. BODART.	3112 Windsor Av.	*United Railways Co.*
W. H. BROWN.	2431 W. North Av.	*Bethlehem Shipbldg. Co.*
W. B. CARTER.	2743 Fenwick Av.	*Cons. Gas & Elec. Co.*
L. L. CASSARD.	2105 Bolton St.	*Balt. Dry Docks Co.*
EDWIN C. CLAYTON.	428 N. Arlington Av.	*Wm. E. Hooper & Sons Co.*
JOSEPH T. CROMACK.	2517 N. Charles St.	*Bethlehem Shipbldg. Co.*
CHARLES M. FITZPATRICK.	2419 N. Calvert St.	*Bethlehem Steel Co.*
LEWIS M. HESS.	1212 W. North Av.	*Ottenheimer Bros.*
E. W. HORLEBEIN.	2819 Winchester St.	*Dixie Mfg. Co.*
FRANK C. V. HORLEBEIN.	2819 Winchester St.	*U. S. Printing & Lith. Co.*
A. C. HULL.	707 E. 33rd St.	*Wm. E. Hooper & Sons. Co.*
FRANK J. JENDREK.	120 W. Lafayette Av.	*Standard Safe & Vault Co.*
HERBERT KERNGOOD.	Brook's Hall Apts.	*Alma Mfg. Co.*
RUSSELL S. LEARY.	606 Woodbourne Av.	*U. S. Indus. Alcohol Co.*
GEORGE R. MCDONALD.	620 Bartlett Av.	*Standard Oil Co.*
ROBERT B. MEGARY.	2007 N. Fulton Av.	*Carr-Lowery Glass Co.*
W. B. MOSHER.	25 E. 21st St.	*C. & P. Telephone Co.*
CECIL H. MULLIKIN.	4111 Ridgewood Av.	*Balt. Dry Docks Co.*
REUBEN E. OTTENHEIMER.	2260 Linden Av.	*Ottenheimer Bros.*
HARRY J. QUICK.	3536 Greenmount Av.	*Bethlehem Shipbldg. Co.*
PAUL C. RENNO.	315 N. Stricker St.	*Balt. & Ohio R. R.*
JOHN ROHRER.	1721 Guilford Av.	*Ottenheimer Bros.*
EDWARD G. STAPLETON.	2518 Maryland Av.	*Arundel Sand & Gravel Co.*
GEORGE C. STIERHOFF.	2911 Brighton St.	*Union Shipbldg. Co.*
H. H. TILLMAN.	601 Parkwyrth Av.	*Balt. Tin Decorating Co.*
LESLIE S. TILLMAN.	601 Parkwyrth Av.	*Corkran, Hill & Co.*
JOSEPH P. TOWSON.	1731 W. North Av.	*Bethlehem Shipbldg. Co.*
PAUL J. VINCENT.	120 Mosher St.	*Baugh Chemical Co.*
WILLIAM B. VOGTS.	3528 Greenmount Av.	*Bethlehem Shipbldg. Co.*
H. C. WARD.	Waldorf Hotel.	*Public Service Comm.*
JAMES H. WOODALL.	2404 N. Charles St.	*Patapsco Iron Works.*

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MATHEMATICS 1–N

(Trigonometry; Analytic Geometry)

J. V. ALFRIEND, JR.	1405 Eutaw Pl.	*Hynson, Westcott & Dunning.*
JOHN M. ALLEN.	925 Madison Av.	*Consol. Eng. Co.*
C. M. DODSON.	1802 E. Federal St.	*E. V. Coonan & Co.*
HENRY F. GEISZ.	1639 S. Hanover St.	*Bethlehem Steel Co.*
FREDERICK B. GREEN.	708 N. Gilmor St.	*Balt. Dry Docks Co.*
J. EDWARD GREEN.	7 E. 27th St.	*Bethlehem Steel Co.*
MICHAEL LEVEN.	2204 Jefferson St.	*Blumenthal & Kahn.*
J. MCAVOY.	321 Harwood Av.	*United Railways Co.*
W. WADE MOSS.	923 Poplar Grove St.	*Balt. & Ohio R. R.*
J. S. MOWBRAY.	1502 John St.	*Balt. & Ohio R. R.*
MARIE O'DEA.	Irvington.	
JOHN H. H. POOLE.	1713 N. Port St.	*U. S. Navy Dept.*
JOHN B. ROGERS.	1408 Park Av.	*Unger & Mahon.*
THOMAS J. SCHREIBER.	7 Batavia Av.	*U. S. Indus. Alcohol Co.*
HARRY A. SNOWDEN.	1206 Melvale Av.	
LAURENCE RAYMOND WHITE.	1023 N. Gilmor St.	*Wyatt & Nolting, Architects.*
GEORGE S. WOODROW.	3313 Gwynn Oak Av.	*General Chemical Co.*
JOHN A. WORTHINGTON.	Annapolis.	*Bartlett-Hayward Co.*

(18)

(Total 338)

ATTENDANTS ON SUMMER COURSES, 1919

MARY ALICE ADAMS. Baltimore. 610 *N. Fremont St.*
Baltimore Teachers' Training School. *Education* 15 and 17; *Spanish* 3.

JOHN T. AGNEW. Baltimore. 1416 *Laurens St.*
Fine Arts 5.

ANNA CHRISTINA ALBERT. Baltimore. 112 *S. Ellwood Av.*
Johns Hopkins University. *Biology* 1 and 2.

EDWARD DOUGLAS ALLEN. Baltimore. *Mt. Royal Apts.*
Johns Hopkins University. *Chemistry* 3 (lectures); *French* 4; *Spanish* 3.

IONA APSLEY. Rock Hall. 831 *W. North Av.*
Maryland State Normal School. *Education* 17 and 18.

CARLOS VASQUEZ ARJONA. Ponce, Porto Rico. 3123 *N. Calvert St.*
Johns Hopkins University. *Biology* 2; *French* 3; *History* 3.

JULIUS ASKIN. Baltimore. 1721 *Smallwood St.*
Maryland Institute of Art. *Fine Arts* 1 and 2.

FANNY FORNEY BAKER. Baltimore. 213 *E. Biddle St.*
A. B., Goucher College, 1913. *Education* 10; *Politics* 1.

FRANCIS WYATT BAKER. Baltimore. 3820 *Roland Av.*
French 2, 3 and 4.

JUSTINE BALCUTIE. Lawrence, Mass. 128 *W. Franklin St.*
Education 20.

ARDIS MAYHEW BALDWIN. Baltimore. *Cedarcroft, Govans.*
A. B., Swarthmore College, 1919. *Fine Arts* 5 and 6.

NATALIE BALLOU. Baltimore. *Roland Park.*
Johns Hopkins University. *Biology* 1 and 2.

ELIZA IVES BARTON. Baltimore. 122 *E. 22d St.*
Maryland State Normal School. *Fine Arts* 1 and 2.

NORMAN JOHNSON BATTS. Baltimore. 117 *Curley St.*
Baltimore Teachers' Training School. *Biology* 2; *History* 3.

RUTH MAGDALENE BAUER. Anne Arundel Co. *Hanover.*
Annapolis High School. *Education* 12; *Fine Arts* 5; *Psychology* 4.

HELEN BECKER (MRS.). Schenectady, N.Y. 1318 *Eutaw Pl.*
Ph. B., New York Sate College for Teachers, 1898. *Education* 20.

MAZIE BECKER. Baltimore. 102 *Aisquith St.*
Goucher College. *Education* 20.

MARTHA ELIZABETH BEETHAM. Baltimore Co. *Overlea.*
Baltimore Teachers' Training School. *French* 4 and 5.

WILLIAM HARRY BELL. Baltimore Co. *McDonogh.*
Economics 3; *Spanish* 3.

GEORGIE ROYSTON BELT (Mrs.). Baltimore. 4909 *Crowson Av.*
Maryland State Normal School. *Education* 16 and 17.

CONRADO BENITEZ. Manila, P. I. *Washington, D. C.*
Ph. B., University of Chicago, A. M., 1911; LL. B., University of the Philippines. *Economics* 1; *History* 2.

BESSIE BURNS BENNETT. Baltimore. 106 *W. North Av.*
Johns Hopkins University. *Education* 2 and 4; *Spanish* 2.

VIRGINIA RAPHAEL BENNETT. Baltimore. 1429 *N. Central Av.*
Baltimore Teachers' Training School. *Education* 8 and 9; *French* 5.

WILLETTA CECIL BENNETT (Mrs.). Baltimore. *Mt. Washington.*
Education 12 and 15; *Fine Arts* 5 and 6.

ETTA MAY BENSON. Anne Arundel Co. *Brooklyn.*
Maryland State Normal School. *Education* 12, 14, and 16.

RICHARD CONSTABLE BERNARD. Baltimore. 3705 *N. Charles St.*
Economics 1; *French* 3.

MARY GRACE BERTOLET. Reading, Pa. 810 *Park Av.*
French 5.

ESTELLE JACOBS BIDDLE. Rock Hall. 2743 *Maryland Av.*
Maryland State Normal School. *Education* 7 and 8.

JAMES COSSIE BIEHL. Frederick. 2627 *Maryland Av.*
Education 3, 5, and 10.

CHARLES RAWLING BISSELL. Mt. Lake Park. 2710 *N. Charles St.*
Education 1 and 15. *Spanish* 3.

ELIZA H. BLAIR. Indianapolis, Ind. 2702 *N. Calvert St.*
Goucher College. *Education* 1 and 18; *Spanish* 3.

GEORGE OSCAR BLOME. Baltimore. 3915 *Maine Av.*
LL. B., University of Maryland, 1914. *English Composition* 2; *Psychology* 3.

ALBERT HERBERT BLUM. Baltimore. 2502 *Brookfield Av.*
Johns Hopkins University. *Economics* 1; *Philosophy* 1; *Politics* 1.

MARGARET DONALDSON BOEHM. Baltimore. *Roland Park.*
Johns Hopkins University. *Philosophy* 2; *Psychology* 1 and 3.

ANNIE BONNEVILLE. Baltimore. 219½ *E. North Av.*
English Composition 1; *History* 4.

ESTIE ELIZABETH BOSLEY. Finksburg.
Education 2, 17, and 19.

EMORY BENNETT BOWEN. Baltimore Co. *Owings Mills.*
Maryland State Normal School. *Education* 2 and 17; *French* 5.

LEONARD BEDIENT BRABEC. Kasson, Minn. *Y. M. C. A.*
A. B., McAlester College, 1918. *Biology* 1 and 2 (lectures); *Chemistry* 3 (lectures).

ELIZABETH GORDON BRAINARD. Baltimore. 230 *Oakmont Av.*
Mansfield State Normal School (Pa.). *French* 3; *Spanish* 1.

JOSEPH ALOYSIUS BRENNAN. Howard Co. *Ellicott City.*
Rock Hill College. *Chemistry* 1.

ARAMINTA BRINSFIELD. Baltimore. 4713 *Homer Av.*
Johns Hopkins University. *Biology* 1 and 2.

LOTTIE ELIZABETH BROMLEY. Stockton. 2712 *N. Charles St.*
Stockton High School. *Education* 12, 15, and 17.

CHARCILLA GAY BROOKE. Baltimore. 104 *W. Eager St.*
Maryland Institute of Art. *Fine Arts* 5.

ELAINE BROWN. Baltimore. 1313 *John St.*
B. S., University of Cincinnati, 1918. *Fine Arts* 5.

THURMAN NELSON BROWN. Westminster. 1503 *Belt Av.*
Education 15, 17, and 19.

JENNIE LOU BROWNE. Aiken, S. C. 1026 *N. Eutaw St.*
L. I., George Peabody College, 1894. *Education* 13, 16, and 17.

MILDRED HEYWOOD BUCHANAN. Baltimore. *Charles and 32d St.*
Chemistry 3; *French* 4.

ALICE GRAHAM BUCHER. Baltimore. 1014 *Beaumont Av.*
Eastern High School. *Biology* 3; *Education* 6 and 10.

THOMAS WILSON BUCHMAN. Carroll Co. *Hampstead.*
Education 12 and 14; *Manual Training* 2.

THOMAS TERRY BURGER. Baltimore. *Normandie Heights.*
Johns Hopkins University. *Chemistry* 1 and 3 (lectures).

MARY ANNETTE BURGESS. Baltimore. *Norwood & Lillian Avs.*
Maryland Institute of Art. *Fine Arts* 1 and 2.

MILDRED RUNKLE BURKE. Harrisburg, Pa. 1220 *W. 36th St.*
Swarthmore College. *Economics* 3; *English Literature* 1; *Spanish* 3.

EDGAR C. BYE. Rutledge, Pa. 3407 *Piedmont Av.*
A. B., Haverford College, 1915. *English Literature* 1 and 2.

MARGARET MARY BYRNES. Baltimore. 340 *E. 20th St.*
Baltimore Teachers' Training School. *Education* 18; *English Literature* 3.

MARGARET MARY CADOGAN. Baltimore. 1515 *Mt. Royal Av.*
Education 6 and 9.

HUGH WRIGHT CALDWELL. Cecil Co. *Chesapeake City.*
Johns Hopkins University. *Economics* 3; *Education* 3.

FREDERIC RUSSELL CALKINS, JR. Watertown, N. Y.
Johns Hopkins University. *Economics* 1 and 2; *Education* 18.
2932 *St. Paul St.*

ELLA CANNAN. Cecilton. 2735 *Maryland Av.*
George Biddle High School. *Education* 12, 15, and 17.

HARRY LINGAN CAPLES. Baltimore Co. *Towson.*
A. B., Johns Hopkins University, 1908. *English Literature* 1 and 2; *French* 5.

CHARLES BORROMEO CARROLL. Baltimore. *Piedmont & Ellamont Avs.*
Education 10; *Latin Literature.*

MARY WRIGHT CARROLL. Chestertown. 922 *W. Lexington St.*
Maryland State Normal School. *Education* 10; *Mathematics* 3; *Psychology,* 4.

KATHERINE CARTER. Baltimore. 2228 *N. Calvert St.*
French 5.

EDWARD HAZEL CASHELL. Baltimore. 2932 *St. Paul St.*
Johns Hopkins University. *Economics* 2; *French* 4.

EMMA CAULK. Sharpstown. 3014 *N. Calvert St.*
Maryland State Normal School. *Education* 6; *English Literature* 1 and 2.

NELL CAULK. Sharpstown. 3014 *N. Calvert St.*
Wesleyan College Institute (Del.). *Education* 7 and 8; *English Composition* 1; *Red Cross* 2.

IDA VIRGINIA CAUTHORN. Hood's Mills. 106 *W. Saratoga St.*
Maryland State Normal School. *Education* 4; *History* 2.

ELEANOR WAGNER CHAMBERLAIN (Mrs.). Toro Amarillo, Costa Rica.
Hannah More Academy. *Education* 20. 2409 *N. Calvert St.*

HELEN P. CHANDLEE. Baltimore. 3314 *Elgin Av.*
Education 20.

CHING HSIN CHEE. Chihli, China.
Jefferson Medical College. *Biology* 3; *English Literature* 3; *French* 5.

HELEN GAMES CHOWNING. Baltimore. 2506 *Ellamont Av.*
Eastern High School. *Education* 12, 16, and 18.

DORIS VIRGINIA CHURCH. Baltimore. 2627 *N. Charles St.*
Drexel Institute. *Economics* 3; *English Literature* 1.

EDWARD J. CLARKE. Chestertown. *Hotel Rennert.*
A. B., St. John's College, 1881, A. M., 1890, and Litt. D., 1909. *Education* 3 and 5.

WILLIAM LEE CLARK. Harrisburg, Pa. *St. Paul Apts.*
Litt. B., Princeton University, 1919. *Chemistry* 1 and 3.

WALTER CLAYTON. Baltimore. 806 *N. Calvert St.*
LL. B., Hamilton College of Law, 1901; A. B., Oxford University, 1909; A. M., Wittenberg College, 1907; M. Sc., Capital University, 1916; Ph. D., Dixon College, 1904. *Chemistry* 1.

MAYNARD ARTHUR CLEMENS. Baltimore. 2044 *Kennedy Av.*
B. S., Columbia University, 1913. *Economics* 1; *Education* 4; *Philosophy* 1.

GLENNI HERBERT CLEMENSON. Barnesboro, Pa. 1710 *N. Charles St.*
Indiana State Normal School. *Chemistry* 2; *English Composition* 1; *Philosophy* 1.

MARGARET FULTON COE. Baltimore. *Station E.*
Johns Hopkins University. *Philosophy* 1 and 2; *Psychology* 4.

MARY CAROLINE COE. Baltimore. *Station E.*
Johns Hopkins University. *Philosophy* 1 and 2; *Psychology* 4.

ELIZABETH F. COFFIN (Mrs.). Philadelphia, Pa. *Sparrows Point.*
Economics 1; *Politics* 1.

EVELYN ANSELL COHEN. Baltimore. 1809 *Eutaw Pl.*
Fine Arts 1 and 2.

LILLIAN WILCOX CONN. Baltimore. 824 *Beaumont Av., Govans.*
Fine Arts 5 and 6.

ELLA JOSEPHINE CONNER (Mrs.). Hamilton.
Western High School. *Education* 4, 11, and 17.
Harford Rd. & Richmond Av.

ELMER EARNSHAW COOK. Baltimore Co. *Towson.*
Princeton University. *Chemistry* 2.

ISRAEL LEON COOPER. Baltimore. 2036 *Brookfield Av.*
New York University. *Chemistry* 3; *Philosophy* 1.

FRANCES LEE COPPER. Chestertown. 1907 *W. Fayette St.*
Education 14 and 18.

CHARLES HOWARD CORBETT. Baltimore. 1513 *Hanover St.*
LL. B., Baltimore Law School, 1914. *Biology* 1; *History* 2; *Psychology* 4.

BETSY COPPING CORNER (Mrs.). Baltimore. 212 *Ridgewood Rd.*
Education 2 and 4.

MARGARET MARY CORRIGAN. Baltimore. 434 *E. 22d St.*
Johns Hopkins University. *Education* 5; *English Literature* 3; *Politics* 2.

ARCHIBALD BARKLIE COULTER. Baltimore. 124 *W. Lanvale St.*
A. B., Catholic University of America, 1918. *Chemistry* 1.

LELIA JANE COX. Federalsburg. 2115 *Allendale Av.*
Education 12, 15, and 17.

GEORGE JAMES COY, JR. Baltimore. 2403 *Elsinor Av.*
Fine Arts 5 and 6.

PHILIP CHARLES CRAFT. Baltimore. *Mt. Washington.*
Johns Hopkins University. *Economics* 1; *Philosophy* 1 and 2.

AMY HICKS CRANE. Baltimore. 854 *W. Fayette St.*
Baltimore Teachers' Training School. *Education* 15 and 17; *Spanish* 3.

LUCILLE CRIGHTON. Gulfport, Miss. 3123 *N. Calvert St.*
A. B., Mississippi Industrial Institute and College, 1910. *Education* 6, 7, and 8.

WILLIAM KENNEDY CROMWELL, JR. Baltimore Co. *Lake Roland.*
Johns Hopkins University. *English Literature* 1; *Philosophy* 2; *Politics* 2.

GEORGE FRANKLIN CROWTHER. Baltimore. *Mt. Washington.*
French 5; *History* 3.

JAMES KIMMEY CULLEN, JR. Baltimore Co. *Catonsville.*
Economics 3; *Philosophy* 1 and 2.

OCTAVIA AMELIA DALLAM. Baltimore. 1318 *Bolton St.*
Western High School. *French* 2, 3, 4, and 5.

MODWENA DAMAST. Baltimore. 3538 *York Rd.*
Fine Arts 2 and 5.

MARY ALICE DANDY. Baltimore. 223 *E. Lafayette Av.*
A. B., Goucher College, 1909. *Economics* 3; *Education* 7.

THOMAS FARRELL DANIELS. Baltimore. 603 *Continental Bldg.*
A. B., Mt. St. Mary's College, 1919. *Chemistry* 1.

OLIVE REBECCA DAWKINS (Mrs.). Baltimore. 3310 *Carlisle Av.*
Western High School. *Education* 2, 6, and 13.

DOMINICK JOSEPH DE CAESAR. Brooklyn, N. Y. 3133 *N. Calvert St.*
Fordham University. *Chemistry* 1 and 2.

AUGUSTA DELLONE. Baltimore Co. *Overlea.*
Baltimore Teachers' Training School. *Education* 1; *Philosophy* 1; *Psychology* 4.

EVA PAULINE DERR. Hampstead. 3005 *Ilchester Av.*
A. B., Pennsylvania College, 1910. *Education* 8 and 9; *History* 2.

DOROTHY WILMER DILL. Chestertown. 2735 *Maryland Av.*
Chestertown High School. *Education* 14, 15, and 19.

EMMA ADELAIDE DINSMORE. Baltimore. 132 *S. Patterson Pk. Av.*
Barnard College. *English Literature* 1 and 2.

AUGUSTA FREDERICKA DITTY. Baltimore. 220 *W. Lanvale St.*
Johns Hopkins University. *English Literature* 1; *History* 3; *Philosophy* 1.

EDNA LEOLA DIXON. Baltimore. 2206 *Elsinore Av.*
English Literature 1; *History* 3; *Philosophy* 1.

FREDERICK WILLIAM DOERMANN. Washington, D. C. 2108 *Atlantic Av.*
Johns Hopkins University. *Biology* 1; *Chemistry* 2.

ISABEL SCHERER DOLCH. St. Louis, Mo. *University Parkway.*
A. B., Washington University, 1918. *Economics* 1; *Mathematics* 1.

EDWARD CYRIL DONOHOE. Greensburg, Pa. 2513 *N. Charles St.*
Johns Hopkins University. *Economics* 1, 2, and 3.

MARGARET ELIZABETH DOWNEY. Baltimore. 1575 *Abbottston St.*
Johns Hopkins University. *Education* 6 and 9; *History* 2.

ESTHER DREYER. Linthicum. *Lansdowne.*
Baltimore Teachers' Training School. *Education* 10; *Spanish* 3.

HILDA NORTH DULAC (Mrs.). Baltimore. *University Apts.*
Economics 3; *History* 4; *Spanish* 2.

LILLIAN DUSENBURY. Washington, D. C.
Education 12; *Manual Training* 2.

LILLIAN EAGLESTON. Baltimore. *Denmore Park.*
Western High School. *Education* 20.

LUCY ELEANOR EAGLESTON. Baltimore. *Denmore Park.*
Education 20.

JOHN SHELDON EASTLAND. Darien Center, N.Y. 2736 *N. Calvert St.*
Johns Hopkins University. *Economics* 2 and 3; *English Literature* 3.

CHARLOTTE EBELING. Baltimore. *Mt. Royal Apts.*
Maryland Institute of Art. *Fine Arts* 2 and 5.

ELSA STAKEMAN EBELING. Baltimore. 329 *Hawthorne Rd.*
Goucher College. *Philosophy* 2; *Politics* 1 and 2.

MYRTLE SOPHIA ECKHARDT. Baltimore Co. *Glyndon.*
Maryland State Normal School. *Education* 4; *English Composition* 3; *French* 5.

DAVID LIVINGSTON ELLIOTT. Baltimore. 1107 *Columbia Av.*
Baltimore Polytechnic Institute. *Economics* 3; *Education* 10; *Philosophy* 1.

VINCENT ENGEL, C. F. X. Baltimore. *Mt. St. Joseph's College.*
A. B., Mount St. Joseph's College, 1916. *Spanish* 1 and 2.

ANNA MARIE ENGLE. Baltimore. 3014 *Guilford Av.*
Maryland State Normal School. *Education* 9 and 17; *French* 5.

JAMES BANCROFT EPPES. Anne Arundel Co. *Annapolis.*
B. S., University of Georgia, 1907. *Mathematics* 1.

FRANCES ANNA MARGARET ERLMEIER. Baltimore. 226 *S. 3d St.*
Maryland State Normal School. *Education* 14; *English Composition* 1.

KATHERINE CLARA ERLMEIER. Baltimore. 226 *S. 3d St.*
Maryland State Normal School. *Education* 14; *English Composition* 1.

HENRY COTHEAL EVANS. Baltimore. *Calvert Court Apts.*
A. B., Johns Hopkins University, 1918. *Chemistry* 1.

HILDRED EVANS. Sudlersville. 840 *W. North Av.*
Centreville High School. *Education* 16 and 18; *English Composition* 3.

MARY ELEANOR EVANS. Baltimore. 505 *Beaumont Av.*
Baltimore Teachers' Training School. *Education* 6 and 8.

JANET MAUD EYLER. Baltimore. 3415 *Piedmont Av.*
Maryland Institute of Art. *Fine Arts* 1 and 6.

JAMES RHEA FAIN. Bristol, Tenn. 3135 *N. Calvert St.*
A. B., Washington and Lee University, 1919. *History* 4; *Spanish* 2 and 3.

HERBERT ERNEST FANKHANEL. Baltimore. 128 *S. Patterson Pk. Av.*
B. S., St. John's College, 1919. *Education* 7 and 8.

ABRAHAM FEDDER. Baltimore. 2047 *Pennsylvania Av.*
Johns Hopkins University. *Economics* 2; *French* 4; *Philosophy* 1.

ALVERDA FERGUSON. Cecilton. 2714 *Maryland Av.*
Maryland State Normal School. *Education* 12, 16, and 19.

ADELAIDE FIELD. Kensington. 210 *E. 31st St.*
Goucher College. *Fine Arts* 2 and 5.

KATE FINEMAN. Baltimore. 1216 *E. Baltimore St.*
Manual Training 1.

RUTH ANITA FIROR. Sabillasville. 2548 *Druid Hill Av.*
A. B., Goucher College, 1912. *Education* 2, 6, and 8.

MARY KATHERINE FISCHEL. Carroll Co. *New Windsor.*
Biology 2; *Education* 7 and 8.

NELLIE GRAY FISHER. Salisbury. 2743 *Maryland Av.*
Wicomico High School. *Biology* 1; *Education* 2; *Manual Training* 2.

CLARA BROOKS FISHPAW. Baltimore Co. *Cockeysville.*
A. B., Central College, 1901; A. M., Bethany College, 1912. *Education* 6 and 13; *Psychology* 1 and 3.

IDA VIRGINIA FLOWERS. Baltimore. 2054 *Kennedy Av.*
Eastern High School. *Education* 1, 12, and 13.

BESSIE MAUD FOARD. Baltimore. 500 *Orkney Rd., Govans.*
A. B., New Windsor College, 1909. *History* 1.

CAROLINE ANNE FOSSETT. Baltimore. 858 *W. 37th St.*
Samuel Ready School. *Education* 6 and 9.

ELI FRANK, JR. Baltimore. 1504 *Bolton St.*
Johns Hopkins University. *Philosophy* 1 and 2.

VALERIE DAVENPORT FRENCH. Washington, D. C.
Elmira College. *Philosophy* 1; *Psychology* 4.

AMELIA HERMINA FRITZ. Hamilton. 15 *Schaffer Av.*
A. B., Goucher College, 1909. *Education* 6; *Philosophy* 1; *Psychology* 3.

ARTHUR JOSEPH FUNK. Savannah, Ga. 2706 *N. Charles St.*
Savannah High School (Ga.). *Biology* 1; *Chemistry* 2 and 3.

MARIAN JENKINS GALBREATH. Delta, Pa. 2118 *N. Charles St.*
A. B., Western Maryland College, 1913. *Education* 5 and 10; *French* 5.

GENEVIEVE GALLAGHER. Baltimore. 4212 *Penhurst Av.*
Western High School. *Fine Arts* 1 and 2.

ADRINNE BROWNE GANTT (Mrs.). Ellisville, Miss. 1026 *N. Eutaw St.*
Ouachita College, 1890. *Education* 9.

ETTA VIRGINIA GARTRELL. Brookeville. 807 *E. 22d St.*
Sherwood High School. *Education* 14, 16, and 19.

JOHN J. GEORGE, JR. Dillon, S. C. 2611 *Maryland Av.*
Washington and Lee University. *French* 4; *History* 3; *Politics* 2.

CAROLINE GEYER. Baltimore. 1518 *Bolton St.*
Education 20.

MAUD GIBBONS. Croome. 2643 *N. Charles St.*
A. B., Western Maryland College, 1914. *Education* 5 and 7; *English Literature* 1.

ACHSAH ELIZABETH GIBSON. Baltimore. 3631 *Elm Av.*
Baltimore Teachers' Training School. *Economics* 3; *Politics* 1; *Spanish* 3.

ROBERTA GLOVER, JR. Baltimore. 2507 *Maryland Av.*
Western High School. *Fine Arts* 5 and 6.

GEORGE GOETZ. Baltimore. 222 *S. Broadway*
Johns Hopkins University. *Economics* 3; *Philosophy* 2; *Psychology* 3.

PHILLIPS LEE GOLDSBOROUGH, JR. Baltimore 7 *Midvale Rd.*
University of Pennsylvania. *History* 2; *Philosophy* 2; *Psychology* 4.

LOUISE GOOSSENS DU PRÉ. Baltimore.
Education 18; *English Composition* 2; *French* 2; *Spanish* 2.

REBEKAH GORDON. Baltimore. 228 *N. Front St.*
Baltimore Teachers' Training School. *Biology* 3; *Education* 20.

HELEN GOULD. Baltimore. 2740 *E. Baltimore St.*
Education 4; *Psychology* 4.

JACOB GRAPE. Baltimore. 333 *E. 22d St.*
B. S., Johns Hopkins University, 1918. *Education* 3 and 9; *History* 1.

ELLEN HEPBURN GRAY. Baltimore Co. *Reisterstown.*
Maryland State Normal School. *Education* 7 and 8; *English Composition* 1.

HELEN VIOLA GREENHOLT. Hamilton. 13 *Ailsa Av.*
Biology 1 and 2.

EDWARD COULSON GRESSLEY. York, Pa. 1203 *N. Charles St.*
Fine Arts 5 and 6.

FRANCIS GIBBS GRIFFITH. Cecilton. 2735 *Maryland Av.*
George Biddle High School. *Education* 8 and 11.

HELEN LIVINGSTON GRIFFITH. Frostburg. 4146 *Roland Av.*
National Cathedral School. *Education* 5; *French* 4; *Spanish* 3.

DORA ELLEN GRIMES. Howard Co. *Ellicott City.*
Maryland State Normal School. *Education* 18.

MARGUERITE ISABELLE GROOMES. Brookeville. 807 *E. 22d St.*
Sherwood High School. *Education* 14, 16, and 19.

HELEN ADELAIDE GUTH. Baltimore. *Mt. Washington.*
Fine Arts 5 and 6.

JOHN THOMAS HAINES. Baltimore. 2111 *Dukeland Av.*
Fine Arts 5.

RUBY AGNES HALL. Baltimore. 313 *E. North Av.*
Notre Dame College. *Fine Arts* 2 and 6.

DIENJI HAMANO. Baltimore. 704 *Cathedral St.*
Biology 1; *French* 5; *History* 3.

DOROTHY HAMBLETON. Baltimore. 105 *E. 21st St.*
Baltimore Teachers' Training School. *Fine Arts* 1 and 6.

MARY HAMILTON. Greensburg, Pa. 3123 *N. Calvert St.*
Randolph-Macon Woman's College. *Biology* 1; *History* 3.

VINCENT HAMILTON, C. F. X. Baltimore. *Mt. St. Joseph's College.*
A. B., Mt. St. Joseph's College, 1916; A. M., Catholic University of America, 1918. *Chemistry* 1 and 2.

NORRIS CARTER HAMMOND. Baltimore. 2920 *Clifton Av.*
University of Maryland. *Economics* 1; *Politics* 1.

HALCYONE HARGROVE. Baltimore. 103 *Elmwood Rd.*
Chemistry 3.

MARY MONROE HARLAN. Harford Co. *Bel Air.*
A. B., Bryn Mawr College, 1915. Education 2, 4, and 11.

VERA HARRIS. Howard Co. *Ellicott City.*
A. B., Goucher College, 1907. *Latin Literature; Spanish* 3.

JAMES NATHANIEL HAUSER. Baltimore. 822 *N. Calvert St.*
A. B., Mission House College, 1899. *French* 4.

ANNA ELIZABETH HAWKINS. Baltimore. *Brooklyn.*
Maryland State Normal School. *Education* 4 and 12; *Spanish* 3.

WINIFRED REBECCA HAZELTINE. Baltimore. *Derby Lane.*
Western High School. *Education* 6 and 8.

KATHARINE LORETTA HEALY. Baltimore. 3817 *Clifton Av.*
Johns Hopkins University. *Biology* 1 and 2.

ELEANOR C. HEAVEY. Howard Co. *Ellicott City.*
Maryland State Normal School. *French* 3; *Spanish* 1 and 2.

CAROLINE HEEZEN. Muscatine, Iowa. *Y. M. C. A.*
A. B., Grinnell College, 1914; A. M., Columbia University, 1919. *Economics* 3.

JULIA ELIZABETH HEIL. Baltimore. 3308 *Gwynn Oak Av.*
Eastern High School. *Psychology* 4.

EMMA CARTER HENDERSON. Baltimore. 2536 *Madison Av.*
Western High School. *Education* 17.

CARRIE HEPBURN. Piedmont, W. Va. 2706 *N. Charles St.*
Economics 1; *Education* 5 and 20.

HARRY WROTH HETZLER. Baltimore. 2914 *Edmondson Av.*
B. Ph., Gallaudet College, 1919. *Chemistry* 2.

ANNA B. HIGGINS (Mrs.). Mt. Savage. 2735 *Maryland Av.*
Frostburg State Normal School. *Education* 12 and 15; *French* 5.

LEAH ELEANORA HILDEBRANDT. Baltimore. 2200 *N. Calvert St.*
Western High School. *Education* 5; *French* 5; *Psychology* 4.

JOHN GUIDO HISKY. Catonsville. *Maple Av.*
Loyola College. *Economics* 3; *Politics* 1.

IRVIN BERNARD HOFFMAN. Baltimore. 2001 *Madison Av.*
Fine Arts 5 and 6.

MARGARET RHODES HOKE. Baltimore. 1220 *W. 36th St.*
Hood College. *Economics* 3; *English Literature* 1; *Spanish* 3.

LUCY ALSOP HOLLOWAY (Mrs.). Baltimore. *Homewood Apts.*
Chemistry 3.

GRACE SHERWOOD HOLMES. Easton. 2727 *Maryland Av.*
Eastern High School. *Education* 14, 16, and 18.

JAMES QUINTER HOLSOPPLE. Carroll Co. *Mt. Airy.*
Economics 3; *Philosophy* 1 and 2.

LAURA BELLE HOOPER. Baltimore. *Shirley & Greenspring Avs.*
Maryland Institute of Art. *Fine Arts* 1 and 2.

EDITH SYLVESTER HOPE. Baltimore. 3115 *Walbrook Av.*
Maryland State Normal School. *Manual Training* 3.

FRANCES PEARL HOPKINS. Salisbury. 2743 *Maryland Av.*
Biology 1; *Education* 2; *Manual Training* 2.

JESSE LUDY HUNSBERGER. Taneytown. 2326 *N. Charles St.*
A. B., Ursinus College, 1911. *Economics* 1; *Education* 6 and 11.

PHILENA MARTENET HUTTON. Baltimore Co. *Kingsville.*
B. S., Johns Hopkins University, 1918. *Education* 4; *Philosophy* 1.

DEBORAH ALICE IDDINGS. Brookeville. 2522 *N. Charles St.*
Sandy Spring High School. *Education* 12, 15, and 17.

ALVEY MICHAEL ISANOGLE. Thurmont. 3042 *Guilford Av.*
A. B., St. John's College, 1898. *Education* 3 and 6.

YUROKU ISHIDA. Baltimore. 2423 *Guilford Av.*
French 5.

CATHERINE ELIZABETH JACKSON. Baltimore. 717 *Roland Av.*
Maryland State Normal School. *Educatoin* 4 and 12.

ELIZABETH VAUGHAN JACOBS. Salisbury. 2518 *Maryland Av.*
Education 2; *French* 3; *History* 3.

IRENE EDVIGE JANICE. Baltimore. 304 *W. Monument St.*
Education 20.

WILEY WILLARD JENKINS. Oakland. 319 *Belvedere Av.*
Chemistry 1; *Education* 10.

JAMES THOMAS JOHNSON, JR. Cumberland. 311 *E. 21st St.*
Johns Hopkins University. *Chemistry* 3; *Mathematics* 3; *Philosophy* 1.

EDWARD MATTHEWS JONES. Elkton. 207 *W. 27th St.*
Wesleyan University (Conn.). *Economics* 2; *English Literature* 1; *Politics* 2.

ISABEL RINGGOLD JONES. Rock Hall. 630 *Wyanoke Av.*
Maryland State Normal School. *Education* 17; *Manual Training* 2.

LAURA MILLARD JONES (Mrs.). Asheville, N. C. *Latrobe Apts.*
Education 5 and 8; *History* 3.

NETTIE F. JONES. New Market. 200 *E. 22d St.*
New Market High School. *Education* 2 and 19.

ALEXANDER X. JOST (Brother Prosper, C. F. X.).
Fine Arts 1 and 6. Richmond, Va. *Mt. St. Joseph's Coll.*

ELEANOR MARGARET KAIRIS. Baltimore. 873 *Hollins St.*
Education 20.

LEBA KAPLAN. Baltimore. *Plymouth Hall Apts.*
A. B., Goucher College, 1918. *Education* 20.

JOSEPHINE CATHERINE KELLEY. Baltimore. 1842 *W. Baltimore St.*
Baltimore Teachers' Training School. *Education* 10 and 11.

MARIE ISABEL KELLY (Mrs.). Baltimore. 2614 *N. Charles St.*
Eastern High School. *Education* 20.

MARIE LOUISE KEMP. Catonsville. 131 *Newbury Av.*
Maryland State Normal School. *Education* 7, 9, and 18.

BASCOM KING KENNADY. Baltimore. 734 *N. Carrollton Av.*
Johns Hopkins University. *Economics* 1 and 2; *Spanish* 3.

EDWARD STAUFFER KING. Baltimore. 1243 *Mt. Royal Av.*
Johns Hopkins University. *Fine Arts* 5; *Latin Literature; Philosophy* 1.

CHARLES LEONARD KOPP. Lineboro. 525 *Scott St.*
A. B., Pennsylvania College, 1914. *Education* 1, 3, and 5.

RUTH LOUISE KOUKOL. Baltimore. 2 *N. Broadway.*
Washington Irving High School (N. Y.). *Education* 20.

MARGARET THERESA KRATZ. Baltimore. 744 *W. North Av.*
Johns Hopkins University. *Biology* 1 and 2.

MARGARET HENRIETTA KRUMM. Baltimore. 1207 *E. North Av.*
Wittenberg College (Ohio). *Education* 10; *French* 5; *Spanish* 2.

RAYMOND KWASNIK. Cambridge Springs, Pa. 809 *Chauncey Av.*
A. B., Loyola College, 1913. *History* 2; *Spanish* 1 and 2.

ANNA JANETTE LACY. Montgomery Co. *Washington Grove.*
Central High School. *Education* 12, 14, and 15.

MORGAN DAVENPORT LALOR. Baltimore Co. *Catonsville.*
Catonsville High School. *French* 4 and 5.

FLORENCE EDNA LANE. Easton. 140 *N. Milton Av.*
Eastern High School. *Education* 14 and 19; *Psychology* 4.

ALBERT LEONARD LEARY. Kent Co. *Rock Hall.*
A. B., Washington College, 1916. *Education* 4 and 13; *French* 4.

MABEL PORTER LEEF. Baltimore. 1002 *Beaumont Av.*
Baltimore Teachers' Training School. *History* 2 and 3.

ADELE LEPRINCE. Glencoe. 616 *Park Av.*
English Composition 3.

BENJAMIN LEVENE. Baltimore. 2352 *McCulloh St.*
Baltimore Polytechnic Institute. *Fine Arts* 5 and 6.

MARGUERITE GWENDOLINE LINTHICUM. Annapolis. 2635 *St. Paul St.*
Annapolis High School. *Economics* 1; *Education* 12 and 15.

FREDERICK WIESSNER LIPPS. Catonsville. *Valley Rd.*
Johns Hopkins University. *Economics* 1; *Latin Literature; Philosophy* 1.

EMMA LONN. Laporte, Ind. 419 *E. 22nd St.*
Laporte High School (Ind.). *Education* 20.

PAUL W. LUDDY. Clarksburg, Va. 1607 *Linden Av.*
Fine Arts 5.

HAMLINE BAKER MAGINNIS. Baltimore. 700 *E. 21st St.*
Johns Hopkins University. *Education* 14, 15, and 19.

FRANCES JOSEPHINE MANN. Baltimore. 3110 *N. Calvert St.*
Baltimore Teachers' Training School. *French* 3; *English Literature* 3; *Spanish* 3.

NATHA ANNETTE MANN. Baltimore. 3110 *N. Calvert St.*
B. S., Johns Hopkins University, 1919. *Education* 6 and 8; *English Literature* 2.

GRACE EVELYN MANSON. Baltimore. 2200 *Elsinor Av.*
A. B., Goucher College, 1915; A. M., Columbia University, 1919. *Education* 13 and 15; *Pyschology* 3.

ERNEST G. MARR. Baltimore. 827 *N. Eutaw St.*
M. D., Baltimore Medical College, 1913. *French* 2 and 4.

ADA RUTH MARRIOTTE. Lander. 1615 *Eutaw Pl.*
A. B., Hood College, 1909. *Biology* 1 and 3; *Education* 11.

HENRY M. MARTIN. Aurora, N. Y. 2735 *Maryland Av.*
A. B., Richmond College, 1900; Ph. D., Johns Hopkins University, 1907. *Spanish* 1 and 2.

BESSIE OPHELIA MASON. Street. 1810 *Bentalou St.*
Jarrettsville High School. *Education* 2, 7, and 8; *Fine Arts* 5.

SARAH MASON. Baltimore. 3422 *Mondawmin Av.*
A. B., Goucher College, 1914. *Education* 5, 7, and 8.

ELIZABETH B. MATTHEWS. Baltimore. 1511 *Bolton St.*
A. B., Goucher College, 1896. *Education* 6; *French* 4.

LOUIS WILLIAM MAX. Brooklyn, N. Y. *Ellicott City.*
Economics 3; *Philosophy* 1; *Psychology* 4.

CLARENCE ALVEY MCBRIDE. Easton. 16 *E. 22nd St.*
A. B., St. John's College, 1905. *Education* 3, 9, and 10.

ALMA ELIZABETH MCCAFFREY. Carroll Co. *Westminster*
Education 2, 4, and 13.

HELEN BRYAN MCCONNOR. Queenstown. 3123 *N. Calvert St.*
Maryland State Normal School. *Education* 12, 15, and 17.

ELSIE REGINA MCELANEY. Boston, Mass. 1226 *N. Calvert St.*
Economics 1 and 3; *Philosophy* 1.

KATHLEEN MCDERMITT. Mt. Savage. 674 *W. Saratoga St.*
State Normal School, Frostburg. *Education* 15 and 17; *French* 5.

VINCENT MCINERNEY. Ellicott City. *Rock Hill Coll.*
A. B., Rock Hill College, 1915. *Chemistry* 2.

IRENE ISABELLE MCLAUGHLIN. Baltimore. 405 *E. North Av.*
Baltimore Teachers' Training School. *Education* 6; *Mathematics* 3; *Spanish* 3.

GRACE ETHEL MCNUTT. Harford Co. *Berkley.*
Tome Institute. *Education* 4 and 10; *English Composition* 3.

LILLIAN MAY MEINL. Baltimore. 1817 *N. Mount St.*
Western High School. *Economics* 1; *Education* 7 and 9.

SADIE MELTZER. Baltimore. 1403 *E. Baltimore St.*
Baltimore Teachers' Training School. *Education* 20.

ANNIE CATHERINE MEUSHAW. Baltimore. 812 *Winston Av.*
Education 4 and 6; *History* 2.

SOLOMON MICHELS. Baltimore. *Fort McHenry.*
B. S., Cooper Union, 1913. *Chemistry* 2.

ISABELLE MILLER. Baltimore. 3303 *Walbrook Av.*
Western High School. *English Composition* 1; *French* 4 and 5; *Red Cross* 2.

ARCHER SMITHSON MILLICAN. Potomac, Va. 2706 *N. Charles St.*
A. B., Randolph-Macon College, 1914. *Education* 1 and 5.

LAURA MAE MILLS. Baltimore. 2539 *W. Lombard St.*
Baltimore Teachers' Training School. *Education* 15 and 17

CORA ADELE MOFFETT. Chestertown. 2743 *Maryland Av.*
Fine Arts 1 and 6.

DOMINIC MORAN, C. F. X. Baltimore. *Mt. St. Joseph's College.*
A. B., Mt. St. Joseph's College, 1917. *French* 3 and 4; *German* 2.

EDGAR A. MORGAN. Baltimore. 2827 *Walbrook Av.*
A. B., University of Illinois, 1906. *Politics* 1 and 2.

THEODORE MORICI. Passaic, N. J. 2721 *N. Charles St.*
Johns Hopkins University. *English Composition* 3; *German* 3a; *Mathematics* 2.

PHINEAS MORRIS. Aberdeen. 1922 *Cecil Av.*
Ph. B., Dickinson College, 1905. *Education* 3 and 4.

ELIZABETH LUCINDA MOSS. Baltimore. 5316 *York Road.*
Fine Arts 1 and 5.

HELEN CONSTANCE MOSS. Baltimore. 5316 *York Road.*
Fine Arts 2 and 5.

BENJAMIN SIMON NEUHAUSEN. Baltimore. 722 *N. Wolfe St.*
A. B., Johns Hopkins Universiy, 1918. *Physical Chemistry.*

CHARLES JOHN NEUNER. Baltimore. 1620 *Marshall St.*
A. B., Loyola College, 1911. *Chemistry* 2; *French* 4; *German* 3a.

ELIZABETH NICKEL. Baltimore. 2211 *Chelsea Ter.*
A. B., Goucher College, 1918. *Economics* 1; *Education* 5; *History* 2.

GRACE O'HAIR. Baltimore. 2200 *Elsinor Av.*
A. B., University of Minnesota, 1908. *Education* 20.

MARION OLIVER. Baltimore. 1819 *Aisquith St.*
Eastern High School. *Manual Training* 1 and 3.

ELLA HUTZLER OPPENHEIMER. Baltimore. 1411 *Eutaw Pl.*
A. B., Goucher College, 1918. *Chemistry* 3.

EUGENIA HILLEARY OSBOURN. Manassas, Va. 307 *W. Lanvale St.*
Education 6.

CARL DAVID PAGE. Lake Odessa, Mich. *Univ. Apts.*
B. S., State University of Iowa, 1894. *Economics* 1; *Politics* 1 and 2.

GEORGE DAVID PALMER, JR. Helena, Ark. 313 *E. 31st St.*
B. S. in Chem., Clemson College, 1919. *Chemistry* 1; *German* 3b.

GRACE DUDREA PARKER (Mrs.). Baltimore. 914 *St. Paul St.*
Economics 1; *English Composition* 1; *French* 3; *Red Cross* 2.

RUTH PARKER. Anne Arundel Co. *Glenburnie.*
Maryland State Normal School. *Education* 12; *French* 5; *Psychology* 3.

SUMNER ABRAHAMS PARKER. Baltimore. 913 *St. Paul St.*
Philosophy 2.

MARY ELIZABETH PARKS. Fairmount. 2136 *W. North Av.*
Washington High School. *Education* 12 and 19.

ELIZABETH PARRISH. Baltimore. 825 *St. Paul St.*
Fine Arts 1 and 2.

ROSE LILLIAN PASTERNACK. Baltimore. 5 *W. 24th St.*
Goucher College. *Education* 20.

M. ROSE PATTERSON. Baltimore. 631 *Euclid Av.*
Education 6 and 20.

ANNIE E. PAYNE. Baltimore. 5400 *Park Heights Av.*
Maryland State Normal School. *Education* 17.

FRANCIS EDWARD PEGRAM, JR. Baltimore. 1312 *Bolton St.*
Johns Hopkins University. *Chemistry* 3; *Economics* 1 and 2.

ANNA OZELLA PHILLIPS. Forest Hill. 2614 *N. Charles St.*
Jarrettsville High School. *Education* 14, 15, and 19.

ELIZABETH MEADE POISAL (Mrs.). Howard Co. *Ellicott City.*
Maryland State Normal School. *Economics* 2; *Education* 4; *French* 5.

MIRIAM REYWALT POLK. Millersburg, Pa. 3101 *N. Calvert St.*
A. B., Goucher College, 1917. *Biology* 2; *Chemistry* 3.

KATHERINE A. PORTER. Allegany Co. *Frostburg.*
Maryland State Normal School. *Education* 5 and 10; *Mathematics* 1.

MARGARET LAURA POTTER. Rocky River, O. 2743 *Maryland Av.*
A. B., Oberlin College, 1915. *Education* 2; *Psychology* 1 and 3.

JAMES POWERS (Brother Thaddeus, C. F. X.).
Baltimore. *Mt. St. Joseph's College.*
A. B., Mount St. Joseph's College, 1917. *Spanish* 2.

MABEL FULTON POWELL. Berlin. 2712 *N. Charles St.*
Goucher College. *Biology* 1; *Spanish* 2.

ALICE DUDEK PRICE. Harford Co. *Aberdeen.*
A. B., Goucher College, 1917. *English Literature* 3; *French* 3 and 4.

CLARA BEWLEY PRICE. Easton. 700 *W. North Av.*
Maryland State Normal School. *English Literature* 1; *French* 5.

WILLIAM ALEXANDER RANDALL. Baltimore. 1127 *St. Paul St.*
Chemistry 3; *French* 4.

MILTON L. REGUS. Baltimore. 2240 *W. Baltimore St.*
Baltimore Teachers' Training School. *Education* 2, 6, and 13.

JENNIE REIZENSTEIN. Baltimore. 904 *Whitelock St.*
Western High School. *Education* 8.

MILDRED ELIZABETH REYNOLDS. North East. 400 *Edwards Av.*
North East High School. *Education* 14, 16, and 19.

WILLIS JENKINS RICHARDSON. Martinsville, Va. 1109 *St. Paul St.*
Johns Hopkins University. *Economics* 1; *English Literature* 3; *History* 2.

EDGAR RIEMER. Herman, Pa. *St. Mary's Seminary.*
Biology 1 and 2.

HELEN RUTH RIGDON. Street. 2118 *N. Charles St.*
Highland High School. *Education* 14, 16, and 19.

JOHN HUTTON RIGGS. Baltimore. 1303 *Bolton St.*
Johns Hopkins University. *Economics* 1; *Latin Literature; Philosophy* 1.

RUTH OLIVE RITTENHOUSE. Ridgely. 2011 *W. Hollins St.*
Centerville High School. *Education* 12 and 15.

OCTAVIA ARMISTEAD ROBINS. Baltimore Co. *Catonsville.*
St. Timothy's School. *Education* 16 and 17.

NATALIE MEGINNIS ROBINSON. Royal Oak. 2727 *Maryland Av.*
St. Michael's High School. *Economics* 2; *Education* 10; *French* 5.

IRENE ROE. Cordova. 3422 *Mondawmin Av.*
A. B., Goucher College, 1914. *Education* 5; *French* 4 and 5.

CAROLINE WALTERS ROGERS (Mrs.) Baltimore. 2520 *N. Charles St.*
French 2 and 3; *Spanish* 3.

MAY REESE ROGERS (Mrs.) Baltimore. *Stonington Av.*
Western High School. *Education* 20.

ADELAIDE FLORENCE ROSCHEN. Baltimore Co. *Reisterstown.*
Fine Arts 5 and 6.

ELSA ADELAIDE ROSCHEN. Reisterstown. 1957 *Edmondson Av.*
Fine Arts 5 and 6.

J. MILTON ROSSING. Baltimore. 2401 *Greenmount Av.*
Johns Hopkins University. *History* 4; *Philosophy* 1; *Psychology* 4.

MARY LOUISE ROUSE. Chestertown. 2706 *N. Charles St.*
Chestertown High School. *Education* 8 and 15.

FRED WOOD ROUSSEY. Bel Air. 1607 *Linden Av.*
Fine Arts 5.

MARY ETHEL ROYER. Frostburg. 2519 *Fairmount Av.*
State Normal School, Frostburg. *Biology* 1 and 2.

NELLIE MAY ROYER. Frostburg. 2519 *Fairmount Av.*
State Normal School, Frostburg. *Biology* 1 and 2.

GEORGE YEISLEY RUSK. Baltimore. 110 *Elmwood Rd., R. P.*
A. B., Johns Hopkins University, 1913. *French* 5; *German* 3b.

WILLIAM SENER RUSK. Baltimore. 110 *Elmwood Rd., R. P.*
A. B., Princeton University, 1915. *German* 3b.

LEON ROBERT SAIONTZ. Baltimore. 132 *N. Broadway.*
Columbia University. *Economics* 1; *History* 3; *Philosophy* 1.

WALTER MORTIMER SAMSELL. Winchester, Va. 2706 *N. Charles St.*
A. B., Randolph-Macon College, 1911. *Chemistry* 3 (lectures); *French* 2 and 5.

GERTRUDE E. SAPPINGTON. Baltimore. 605 *Park Av.*
Education 20.

LUCILLE LOUISE SCHAMBERGER. Baltimore. 3726 *Greenmount Av.*
Johns Hopkins University. *Biology* 1 and 2.

HAZEL SCHERMERHORN (Mrs.). Reading, Mich. 3507 *N. Charles St.*
Education 20.

GEORGE WILLIAM SCHLUDERBERG. Baltimore. 4718 *Eastern Av.*
Maryland State Normal School. *Education* 14 and 15.

CARL EDWARD WILLIAM SCHMEHL. Baltimore. 1813 *Baker St.*
Baltimore Teachers' Training School. *French* 5; *History* 3; *Mathematics* 3.

BERNARD EDGAR SCHNAPER. Baltimore. 11 *N. Caroline St.*
Chemisry 3; *English Composition* 3.

JOSEPH JOSHUA SCHWARTZ. New York, N. Y. 122 *Aisquith St.*
New York University. *English Literature* 1 and 3; *Philosophy* 1.

ELSA LOUISE SCHWARTZ. Baltimore. 3 *Prospect Circle.*
Maryland Institute. *Fine Arts* 1 and 2.

MARY JAYNE SCRIVNOR. Dayton. 2522 *N. Charles St.*
Maryland State Normal School. *Education* 14 and 19.

HELEN MAY SEGNER. Shippensburg, Pa. 810 *Park Av.*
A. B., Wilson College, 1916. *Education* 7 and 8.

SOPHIE SEYFERTH. Baltimore. 612 *Cator Av.*
Teachers' Training College, Droyssig, Germany. *Education* 6; *French* 2; *Spanish* 1.

ANNIE MARY SHANE. Fawn Grove, Pa. *Towson.*
Education 15, 17, and 18.

MARY AGNES SHAUM. Taneytown. 5400 *Park Heights Av.*
Maryland State Normal School. *Education* 15, 17, and 19.

CAROLINE AGNES SHAY. Boston, Mass. *Belvedere Hotel.*
Boston Normal School. *Education* 20.

GEORGIA DAY SHERWOOD. Baltimore. 2131 *N. Calvert St.*
Johns Hopkins University. *Education* 6; *English Composition* 2.

MARY W. SHILLINGER. Easton. 915 *N. Fremont Av.*
Eastern High School. *Education* 12, 16, and 19

EMORY CLAYTON SHIPLEY, JR. Baltimore Co. *Hamilton.*
Johns Hopkins University. *Economics* 1; *Education* 15; *Manual Training* 3.

GEORGE SEIDEL SHORTESS. Baltimore. 6237 *Bellona Av.*
Johs Hopkins University. *French* 5; *Mathematics* 2.

CLARA MAY SHRYOCK. Barnesboro, Pa. 1103 *E. 20th St.*
Indiana (Pa.) State Normal School. *French* 5; *Latin Literature.*

JOSEPH MILTON SHUE. Waverly, Va.
A. B., Richmond College, 1906. *Education* 1, 2, and 13.

EDWARD SICKEL. Baltimore. 4311 *Ready Av.*
Baltimore City College. *Education* 13.

MARY ELLENORA SIMMONS. Baltimore Co. 523 *E St., Sparrows Point.*
Maryland State Normal School. *Education* 4, 15, and 17.

EVELINA CARROLL SIMON. Baltimore. *Windsor Park.*
A. B., Goucher College, 1898. *Education* 20.

FLORENCE SKELLEY. Oldtown.
Education 17 and 19.

ROSS KAUFMAN SKINNER. Baltimore. 709 *W. North Av.*
Chemistry 3 (lectures).

OLIVE CARROLL SLATER. Baltimore. 305 *Robert St.*
Johns Hopkins University. *History* 4; *Psychology* 1.

MARY LOUISE SMALL. Washington, D. C. *Cathedral St.*
A. B., University of Tennessee, 1917. *Chemistry* 3.

CARRIE B. SMITH. Easton. 2727 *Maryland Av.*
Easton High School. *Education* 4, 14, and 16.

NELLIE GERSTELL SMITH (MRS.). Baltimore. 1311 *Park Av.*
English Literature 2 and 3.

WALTER ROY SMITH. Greensboro. 3050 *Abell Av.*
Johns Hopkins University. *Chemistry* 1; *Philosophy* 2.

WILBUR KENNETH SMITH. Monkton. 1667 *Darley Av.*
Jarrettsville High School. *French* 5; *Mathematics* 3.

VIRGINIA RUHAMAH SNYDER. Morgantown, W.Va. 2516 *N. Charles St.*
West Virginia University. *Fine Arts* 2 and 5.

ISIDORE SOBELOFF. Baltimore. 10 *Irvine Pl*
Economics 3; *English Literature* 1; *Philosophy* 1.

BLANCHE EDNA SPURRIER. Mount Airy. 315 *E. 22nd St.*
Education 7, 8, and 9.

HELEN COULTER STAPLETON. Baltimore. 2518 *Maryland Av.*
A. B., Goucher College, 1909. *Fine Arts* 1 and 2.

IRENE MILLER STEELE. Baltimore. 108 *E. Wylie Av.*
Maryland State Normal School. *Biology* 1; *Economics* 2; *Philosophy* 2.

CHARLES FRANCIS STEIN, JR. Baltimore.
Johns Hopkins University. *Economics* 2; *History* 2; *Psychology* 3.

MARSHALL STITELY. Baltimore. 1532 *W. Lanvale St.*
Maryland State Normal School. *Education* 2 and 13.

MARGARET ELLEN GLADDEN STRAUGHN. Girdletree. 20 *N. Calhoun St.*
Snow Hill High School. *Biology* 3; *Education* 12 and 14.

WILLIAM LOUIS STRAUS, JR. Baltimore. *Alhambra Apts.*
Johns Hopkins University. *Economics* 2; *Philosophy* 1; *Psychology* 3.

WILLIAM ALFRED STRAUSS. Baltimore Co. *Halethorpe.*
Johns Hopkins University. *Economics* 3; *French* 4; *Philosophy* 2.

HARRIET WILSON STROBEL. Baltimore. 2110 *Brookfield Av.*
Fine Arts 1 and 2.

JOHN PHILIP STUMP. Cumberland. 3222 *Abell Av.*
La Salle Institute. *German* 3a and 3b.

FLORA DOBLER SUTTON. Baltimore. 1735 *Bolton St.*
A. B., Goucher College, 1912. *Mathematics* 1.

GEORGE BRADLEY SYBERT. Howard Co. *Elkridge.*
A. B., Loyola College, 1919. *Biology* 1 and 2; *French* 5.

WILLIAM STUART SYMINGTON, 3rd. Baltimore Co. *Garrison.*
Johns Hopkins University. *Chemistry* 3.

YASUO TAKETOMI. Baltimore. 617 *E. 33rd St.*
A. B., Waseda University, 1919. *Economics* 1 and 3; *French* 5.

WILLIAM ISAAC TAWES. Crisfield. 1211 *E. North Av.*
Maryland State College of Agriculture. *Manual Training* 1, 2, and 3.

JOHN CAREY TAYLOR. Baltimore. 1245 *N. Broadway.*
Baltimore Teachers' Training School. *English Composition* 1; *French* 4 and 5.

HELEN STEDMAN TEEPLE. Baltimore Co. *Reisterstown.*
Franklin High School. *Education* 5 and 17; *English Literature* 3.

ALICE MAY THOMPSON. Federalsburg. 2115 *Allendale Rd.*
Federalsburg High School. *Economics* 2; *Education* 13 and 17.

EMMA SOPHIA THOMPSON. Baltimore Co. 321 *Chapanoke Rd.*
Eastern High School. *Manual Training* 1 and 3.

ZELMA GAMBRILL THOMPSON. Baltimore. 2730 *N. Charles St.*
Education 20.

JOHN JACOB TIPTON. Cumberland. *Y. M. C. A.*
Education 1, 3, and 4.

MARGARET MAY TWIGG. Oldtown.
State Normal School, Frostburg. *Education* 17 and 19.

NATHANIEL TWOMBLY. Baltimore. *Mt. St. Joseph's Coll.*
A. B., Mount St. Joseph's College, 1916. *Chemistry* 1 (lectures) and 2.

ALMIRA JAMES UTZ. Port, Va. 2826 *Winchester St.*
Education 17; *Manual Training* 2.

KATHERINE THERESA VALENTINE. Baltimore. 216 *Myrtle Av.*
Johns Hopkins University. *Education* 18; *English Composition* 2; *English Literature* 3.

IDA MAY VAN FOSSON. Anne Arundel Co. *Glenburnie.*
Education 12, 17, and 18.

AMANDA JANE VANSCOY. Kerens, W. Va. 722 *E. Biddle St.*
A. B., Davis and Elkins College, 1918. *Education* 2, 5, and 6.

JULIA JANE WAGNER. Westernport. 2706 *N. Charles St.*
Westernport High School. *Education* 5, 7, and 20.

LILLIAN CHARLOTTE REBECCA WAGNER Baltimore. 2408 *N. Calvert St.*
A. B., Goucher College, 1919. *Education* 5, 10, and 11.

VERA ELEANOR WAGNER. Baltimore. 3038 *St. Paul St.*
English Composition 2 and 3.

MARY VIRGINIA WALL. Baltimore. 2305 *W. Lanvale St.*
Baltimore Teachers' Training School. *Education* 6 and 11.

MARY M. WAREHIME (Mrs.). Westminster. 1005 *Woodley St.*
Westminster High School. *Education* 14 and 16; *Manual Training* 2.

ELIZABETH WARREN. Snow Hill. 1811 *Guilford Av.*
Snow Hill High School. *Education* 12 and 18; *Psychology* 4.

MINNIE WARREN. Snow Hill. 1811 *Guilford Av.*
Snow Hill High School. *Education* 3 and 12; *English Composition* 1.

EDNA ELIZABETH WATSON. Baltimore. 1203 *W. Franklin St.*
Baltimore Teachers' Training School. *Education* 6 and 9; *History* 2; *Red Cross* 2.

ELIZABETH GREEN WAXTER. Baltimore. 2440 *N. Charles St.*
Fine Arts 5 and 6.

THOMAS JACOB SHRYOCK WAXTER. Baltimore. 1920 *Mt. Royal Av.*
Princeton University. *English Composition* 1, 2, and 3.

MARY SUSAN WEAGLEY. Carroll Co. *Westminster.*
Maryland State Normal School. *Education* 17; *French* 5.

KATHERINE ELEANOR WEBSTER. Baltimore. 900 *Madison Av.*
Johns Hopkins University. *English Composition* 2 and 3.

LOUISA AVA WEEDON. Baltimore. 1306 *W. Lexington St.*
Johns Hopkins University. *Education* 8; *English Literature* 3; *Spanish* 3.

MARIE ANTOINETTE WEIDENHAMMER. Baltimore. 213 *S. Calhoun tS.*
Baltimore Teachers' Training School. *Education* 9; *Politics* 2.

ALBERT KATZ WEINBERG. Baltimore Co. *Station E.*
Columbia University. *English Litearture* 1 and 3; *Philosophy* 1.

SONIA WERNEROSKY. Baltimore. 502 *S. Pulaski St.*
Maryland Institute of Art. *Fine Arts* 5 and 6.

JAMES POLLARD WHARTON. Baltimore. 1307 *Linden Av.*
Johns Hopkins University. *English Composition* 3; *English Literature* 1; *French* 3.

ANNA MARIE WHELAN. Baltimore. 1412 *W. Mulberry St.*
A. B., Goucher College, 1918. *Mathematics* 1; *Philosophy* 2.

ELEANOR CUSTIS WHITING. Baltimore. 211 *Goodwood Gardens, R. P.*
Economics 3; *English Composition* 1; *English Literature* 1; *French* 3.

JAMES ROLAND WILHELM. Baltimore Co. *Glencoe.*
Johns Hopkins University. *Economics* 1 and 3.

HATTIE MAE WILLET. Baltimore. 3244 *Abell Av.*
Johns Hopkins University. *Biology* 3; *Fine Arts* 5; *German* 3a.

MARY MARJORIE WILLS. Baltimore. 1012 *W. Lanvale St.*
Drexel Institute. *Economics* 3; *English Literature* 1.

MARY CLEOPHAS WILSON. Baltimore. 205 *Hawthorn Rd., R. P.*
English Composition 3; *English Literature* 1; *German* 3a.

MARGUERITE BALLS WIRTH. Baltimore. *Guilford Ter.*
Western High School. *Manual Training* 1 and 3.

IVA VIOLA WISHERD. Boonsboro. 2502 *N. Charles St.*
Hagerstown High School. *Education* 5 and 10; *Philosophy* 1.

NELLIE MAY WISHERD. Boonsboro. 2502 *N. Charles St.*
Hagerstown High School. *Education* 2, 5, and 7.

CARL GEORGE WOLF. Baltimore. 5202 *Harford Rd.*
A. B., Capital University, 1907. *Philosophy* 1; *Psychology* 3 and 4.

SAMUEL WOLK. Baltimore. 220 *N. Wolfe St.*
History 3; *Philosophy* 1; *Psychology* 3.

EVA MYRTLE WOOLFORD. Baltimore. 2122 *E. Lombard St.*
Baltimore Teachers' Training School. *Biology* 3; *Education* 9; *History* 3.

FRANCES ADDISON MASON WRENSHALL. Hagerstown.
Education 1, 2, 4, and 13. 2639 *N. Charles St.*

C. MILTON WRIGHT. Harford Co. *Belair.*
A. B., Western Maryland College, 1906. *Education* 1 and 3.

ELEANOR WRIGHT. Baldwin. 2704 *St. Paul St.*
Johns Hopkins University. *English Composition* 2; *French* 4; *History* 3.

IRVIN SHORTESS YEAWORTH. Baltimore. 6237 *Bellona Av.*
Johns Hopkins University. *Education* 2; *English Composition* 2; *Manual Training* 1.

HENRY THOMAS YOST. Baltimore. 738 *W. Baltimore St.*
Baltimore Teachers' Training School. *French* 5; *History* 3; *Mathematics* 3.

FRANK RUSSELL YOUNG. Sandy Spring. 313 *S. Elwood Av.*
A. B., Pennsylvania College, 1906. *Education* 2, 6, and 13.

MORRIS ZELDITCH. Baltimore. 425 *S. Pulaski St.*
Biology 1; *Hisory* 3.

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PUPILS IN DEMONSTRATION SCHOOL

Grade IV.....46 Grade VI.....78
Grade V.....50 Grade VII.....53
Grade VIII..... 53

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GOVERNMENT OF THE UNIVERSITY

FOR THE YEAR 1919-20

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 11, and through the President of the University.

PRESIDENT

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 respect 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

F. J. Goodnow (*Pres.*)	J. W. Bright	J. H. Hollander
Paul Haupt	H. S. Jennings	J. C. W. Frazer
Henry Wood	A. O. Lovejoy	W. H. Howell
J. S. Ames (*Sec'y*)	W. W. Willoughby	J. H. Latané
Maurice Bloomfield		(*ex officio*)

By authority of the Trustees, the Academic Council 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

F. J. Goodnow (*Pres.*)
Paul Haupt
W. H. Welch
Maurice Bloomfield
Henry Wood
W. H. Howell
J. W. Bright
J. S. Ames
Frank Morley
H. F. Reid
R. W. Wood
J. H. Hollander
E. B. Mathews
J. M. Vincent
W. W. Willoughby
D. S. Johnson
Hermann Collitz
H. S. Jennings
W. P. Mustard
E. F. Buchner
J. B. Watson
E. A. Andrews
B. E. Livingston
M. L. Raney
A. O. Lovejoy
J. B. Whitehead
G. E. Barnett
D. M. Robinson
C. C. Thomas
J. H. Latané
C. W. E. Miller (*Sec'y*)
K. Dunlap
J. C. W. Frazer
E. E. Reid
E. W. Berry
S. O. Mast
G. Chinard
T. Frank
H. C. Lancaster
W. Kurrelmeyer
C. D. Snyder
A. H. Pfund
B. F. Lovelace
A. G. Christie
J. C. French
A. Ember
A. Cohen
R. V. D. Magoffin
R. B. Roulston
J. T. Singewald
D. S. Blondheim
W. B. Kouwenhoven
W. A. Patrick
J. H. Gregory
W. A. Dehuff

By request of the Academic Council (October 8, 1883), this Board consisting of the President, Professors, and Associate Professors, has charge of the arrangements for the instruction of graduate students and of the examinations for the degree of Doctor of Philosophy.

BOARD OF COLLEGIATE STUDIES

F. J. Goodnow (*Pres.*)
Henry Wood
H. E. Greene
L. S. Hulburt
J. S. Ames
W. J. A. Bliss
J. H. Hollander
E. B. Mathews
J. M. Vincent
W. P. Mustard
E. F. Buchner
E. A. Andrews
A. O. Lovejoy
J. B. Whitehead
C. K. Swartz
G. E. Barnett
D. M. Robinson
C. C. Thomas
J. H. Latané (*Dean*)
C. W. E. Miller
J. E. Gilpin (*Sec'y*)
K. Dunlap
S. O. Mast
G. Chinard
T. Frank
H. C. Lancaster
O. O. Ellis
W. Kurrelmeyer
A. H. Pfund
J. C. French
A. Ember
A. Cohen
R. V. D. Magoffin
R. B. Roulston
D. S. Blondheim
J. H. Gregory
R. P. Cowles
W. A. Dehuff
H. Slonimsky
G. Gruenbaum
W. O. Weyforth
R. T. Abercrombie

By request of the Academic Council (May 13, 1892), the Board of Collegiate Studies, consisting of the President and of representatives from each of the chief departments of undergraduate study, confers upon the progress made by the undergraduate 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.

The following committees are authorized by the Board: *Academic Rules and Regulations,*—J. E. Gilpin, R. B. Roulston, R. T. Abercrombie; *Admission and Advanced Standing,*—J. A. Latané (chairman), E. F. Buchner, H. E. Greene, L. S. Hulburt, W. P. Mustard, R. B. Roulston, J. B. Whitehead; *College Curriculum,*—J. A. Latané (chairman), G. E. Barnett, W. J. A. Bliss, J. C. French, J. E. Gilpin, L. S. Hulburt; *Scholarships and Honors,* J. E. Gilpin (chairman), R. B. Roulston, A. Cohen; *Student Affairs,*—J. C. French (chairman), J. S. Ames, C. K. Swartz; *Summer Courses and College Courses for Teachers,*—E. F. Buchner (chairman).

The Dean is *ex officio* a member of all committees.

ADVISORY BOARD OF THE MEDICAL FACULTY

F. J. Goodnow (*Pres.*)	W. H. Howell	J. Howland
W. H. Welch	J. W. Williams (*Dean*)	W. G. MacCallum
H. M. Hurd	A. Meyer	W. S. Thayer
W. S. Halsted	W. H. Smith	L. H. Weed
J. J. Abel	W. Jones	

This Board was constituted by resolution of the Trustees (April 3, 1898), "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."

ADVISORY COMMITTEE OF THE DEPARTMENT OF ENGINEERING

F. J. Goodnow (*Pres.*)	C. C. Thomas	J. C. W. Frazer
J. B. Whitehead (*Sec'y*)	E. B. Mathews	W. W. Ford
J. S. Ames	J. H. Latané	J. H. Gregory
Frank Morley		

This committee was constituted by a resolution of the Trustees May 9, 1913. It consists of the President of the University, certain members of the Faculty representing engineering and cognate sciences, and the Dean of the College Faculty.

BOARD OF ENGINEERING STUDIES

F. J. Goodnow (*Pres.*)	W. B. Kouwenhoven	J. C. Smallwood
J. B. Whitehead (*Sec'y*)	J. E. Gilpin	M. W. Pullen
C. C. Thomas	J. C. French	F. W. Lee
W. J. A. Bliss	A. G. Christie	C. E. Coolidge
L. S. Hulburt	J. H. Gregory	

This committee, appointed annually, acts for the Advisory Committee on all questions pertaining to undergraduate instruction in engineering.

ADVISORY BOARD OF THE FACULTY OF HYGIENE AND PUBLIC HEALTH

F. J. Goodnow (*Pres.*)	E. V. McCollum	C. G. Bull
W. H. Welch (*Director*)	Raymond Pearl	R. W. Hegner
W. H. Howell (*Asst. Director*)	W. W. Ford	J. H. Gregory

By resolution of the Board of Trustees this Board is "instructed 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 students in the School."

ADVISORY COMMITTEE ON THE DEGREE OF BACHELOR OF SCIENCE

F. J. Goodnow (*Pres.*)	J. E. Gilpin	A. Meyer
G. E. Barnett	L. S. Hulburt	W. P. Mustard (*Sec'y*)
E. F. Buchner	J. H. Latané	J. B. Watson
W. W. Ford	A. O. Lovejoy	H. Wood
J. C. French		

This committee was constituted by resolution of the Trustees June 1, 1915, and subsequently enlarged, to supervise the course of study leading to the degree of Bachelor of Science.

COMMITTEE IN CHARGE OF THE COLLEGE COURSES FOR TEACHERS

E. F. Buchner (*Chairman*) Henry Wood
Eleanor L. Lord (for Goucher College)

OFFICERS OF ADMINISTRATION OF THE SUMMER COURSES

F. J. Goodnow (*Pres.*) T. R. Ball
E. F. Buchner (*Director*) W. G. Boyce

COMMITTEE ON THE LIBRARY

F. J. Goodnow (*Pres.*) E. B. Mathews W. P. Mustard
J. S. Ames W. W. Willoughby M. L. Raney (*Sec'y*)

COMMITTEE ON HOMEWOOD

R. B. Keyser	W. J. A. Bliss	E. H. Bouton
F. J. Goodnow	E. B. Mathews	Howard Baetjer
Blanchard Randall	W. W. Willoughby	T. E. Straus
Miles White, Jr.	M. L. Raney	J. P. Thom
John Glenn, Jr.	W. G. Boyce (*Sec'y*)	

ADVISORY BOARD OF THE YOUNG MEN'S CHRISTIAN ASSOCIATION

F. J. Goodnow (*Pres.*) Eugene Levering J. H. Latané

OTHER OFFICERS

REGISTRAR OF THE UNIVERSITY
Thomas R. Ball

REGISTRAR OF THE MEDICAL SCHOOL
George J. Coy

TREASURER'S ASSISTANT
Henry Iddins

SECRETARY OF THE JOHNS HOPKINS PRESS
Christian W. Dittus

SECRETARY OF THE SCHOOL OF HYGIENE AND PUBLIC HEALTH
Mary Louise Durham

LIBRARIES

1. THE UNIVERSITY LIBRARY numbers 223,803 bound volumes, selected with especial reference to the instruction here given. It is arranged in several collections, of which these are the chief:

Reading Room	Romance Languages
Philosophy, Psychology, and Education	Mathematics
History	Physics and Astronomy
Political Economy and Political Science	Chemistry
Classics, Art, and Archæology	Geology and Civil Engineering
Sanskrit	Biology
Semitic	Medical Sciences
English and German	Hygiene
	Electrical and Mechanical Engineering

The 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 twenty-three hundred. The list is supplemented by those of the Peabody Institute and other institutions, so that the whole number of journals accessible (exclusive of ephemeral publications) approaches three thousand. Important books are received by the library as soon as published, through purchase or the courtesy of dealers.

2. THE PEABODY LIBRARY is a choice collection of books purchased since 1861. It is particularly full in academic transactions, long historical series, and costly illustrated books. It numbers 242,620 volumes and pamphlets, well bound, catalogued, and arranged. It is open daily, without charge, from 9 a. m. to 10 p. m.

3. THE ENOCH PRATT FREE LIBRARY numbers 377,826 volumes and is open daily without charge.

4. THE MARYLAND HISTORICAL SOCIETY LIBRARY contains 46,134 volumes of historical works and is open daily.

5. Other libraries of Baltimore are the New Mercantile Library (94,708 volumes), the Bar Library (44,074 volumes), the Medical and Chirurgical Library (35,000 volumes), the Maryland Diocesan Library (31,000 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.

TREASURER'S OFFICE, BUDGET APPROPRIATIONS, FOREIGN SHIPMENTS, ETC.

I. The Treasurer's Office is open from 9 a. m. to 4 p. m., except on Saturday, when it is closed at 1 p. m.

II. For the several departments an annual allowance is made by the Trustees in the budget, and in deciding on the allowances they are governed by a consideration of the general interests of the University, as well as by the needs of special branches of instruction. A statement of the amount of the allowances and expenditures will be communicated to the several departments at intervals throughout the academic year, and special statements may be obtained at any time from the Treasurer upon request.

III. No member of the academic staff may incur a bill in the name of the University, unless authority is given for the same by the Trustees, in advance, either as an allowance in the annual budget, or as a special appropriation. Blank forms of application are provided for special requisitions.

IV. All bills should be *promptly* endorsed as correct by the person under whose authority the expense has been incurred and then referred to the Treasurer's Office for payment.

V. The Treasurer's Office will make purchases, at wholesale rates, of general supplies which are required for the current needs of the University, and the departments are expected to secure such supplies from the Treasurer's Office by requisition.

VI. Such petty cash 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 unless otherwise arranged.

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.) are payable at once at the Treasurer's Office.

X. FOREIGN SHIPMENTS. All foreign shippers should be instructed to mail a Consular Invoice and a bill of lading, and a duplicate Consular Invoice by the following mail, all addressed to The Johns Hopkins University.

Goods for other parties (societies or individuals) must *not* be included in the University cases. Consignments must *not* be addressed to individuals if they are intended for the University and are to be entered through the Customs for University use.

Unless otherwise ordered, goods from Europe should be sent by steamer *direct to Baltimore* 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.

GENERAL STATEMENTS IN RESPECT TO THE COURSES OF INSTRUCTION

The Johns Hopkins University has had in view, from the beginning, two main objects—the advancement of learning through investigations conducted by its teachers and its properly qualified students, and the communication of learning through carefully planned courses of instruction. The facilities which it provides and its methods of administration are intended both for the encouragement of research, in the case of those competent to undertake it, and for the discipline and guidance of those whose chief concern is the acquisition of knowledge. The work of the University is carried forward—

I. Under the Faculty of Philosophy.

II. Under the Faculty of Medicine.

III. Under the Faculty of Hygiene and Public Health.

IV. Under the Faculty of Engineering.

I. The students enrolled under the Faculty of Philosophy are:

(1) Those who have obtained baccalaureate degrees from colleges of good standing, and who desire to follow advanced courses in scientific, literary, or historical subjects; and also persons who wish to take advantage of the opportunities for study and individual investigation here afforded, and who satisfy the instructors or professors concerned that they are prepared for such work. Women are admitted to these courses.

(2) Undergraduate students, who are, in most cases, looking forward to the degree of Bachelor of Arts, but some of whom are engaged in special studies without reference to graduation. Women are not admitted to the undergraduate courses.

The requirements for admission to the undergraduate courses, the arrangement of these courses, etc., are stated on subsequent pages. Further information is given in the pamphlet entitled "The College of Arts and Sciences of the Johns Hopkins University."

(3) Teachers in public and private schools, persons engaged in other pursuits, and others wishing to pursue courses of collegiate grade in the late afternoons and evenings and on Saturday mornings. Work accomplished in these courses will be credited, upon matriculation, toward the degree of Bachelor of Science. Women are admitted on the same terms as men.

Students registered primarily in other divisions of the University may register also in these courses, and, for satisfactory work in the same, receive credit towards the degrees for which they are matriculated.

Under a plan of co-operation with Goucher College, credits obtained in these courses, to the extent of forty-five hours, may be offered by women matriculating for the degree of Bachelor of Arts conferred by that institution.

Detailed information is given in the special announcement of the "College Courses for Teachers." See also the requirements for the degree of Bachelor of Science on subsequent pages of this Register.

(4) Persons seeking opportunities for instruction during the summer. Men and women are admitted to such courses as they are found by the respective instructors qualified to pursue with advantage. The program includes courses which may be offered in partial fulfillment of the requirements for the degrees of Master of Arts, Bachelor of Arts, Bachelor of Science, and Bachelor of Engineering.

Detailed information is given in the special announcement of the Summer Courses. See the requirements for the various degrees on later pages of this Register.

(5) Persons engaged in affairs or contemplating entrance into business, desirous of pursuing evening courses of collegiate grade in the general field of Business Economics. Work accomplished in these courses will be credited, upon matriculation, towards the degree of Bachelor of Science. Women are admitted on the same terms as men.

Details regarding the "Courses in Business Economics" are given in a special announcement. Particulars as to the requirements for the degree of Bachelor of Science are given in this Register.

II. The students enrolled under the Faculty of Medicine are:

(1) Candidates for the degree of Doctor of Medicine These must be college graduates, or must give evidence by examination that they possess the 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.

The terms of admission to the medical department, the general plan of instruction, and other detailed information are given in the "Catalogue and Announcement" of the department.

III. Students are enrolled under the Faculty of Hygiene and Public Health in the following classes:

(1) Candidates for the degree of Doctor of Public Health.

(2) Candidates for the degree of Doctor of Science in Hygiene.

(3) Candidates for the degree of Bachelor of Science in Hygiene.

(4) Special students, not candidates for a degree.

Information in detail regarding the School of Hygiene is given in a separate announcement.

IV. The students enrolled under the Faculty of Engineering are:

(1) Those who have obtained degrees in Engineering from schools or colleges in good standing, and who desire to follow advanced courses or pursue investigations in engineering subjects.

(2) Undergraduate students who are looking forward to the degree of Bachelor of Engineering.

(3) Practical workers for whom evening courses are provided.

I. FACULTY OF PHILOSOPHY

Advanced 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 ready to give personal counsel 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 conferences for the reading and discussion of philological, philosophical, 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 benefit of scholars, are easily accessible; the issuing, under the auspices of the Trustees, of publications devoted to mathematics, philology, biology, the modern languages, history, political science, and economics, 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 students are becoming familiar with the work prosecuted and the results attained elsewhere, and are adding to their general intellectual culture, they may be encouraged to become independent and original investigators in their chosen fields 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:

Botany
Chemistry
Classical Archæology and Art
Education
English and Anglo-Saxon
Geology and Mineralogy
German
Germanic Philology
Greek
History
Latin
Mathematics
Pathology and Bacteriology
Philosophy
Physics and Astronomy
Physiology (Animal)
Plant Physiology
Political Economy
Political Science
Psychology
Romance Languages (French, Spanish, Italian)
Sanskrit and Comparative Philology.
Semitic Languages (Oriental Seminary)
Zoology

GRADUATE AND COLLEGIATE COURSES

CHEMISTRY

The Chemical Laboratory is open for work and the teaching staff is in attendance from 9 a. m. to 5 p. m. on all week days, except Saturday, when the working hours extend from 9 a. m. to 1 p. m.

The department is amply provided with an equipment of apparatus and other facilities for a great variety of research and with a library which contains complete sets of all the more important chemical periodicals.

While instruction by means of lectures and examinations and by required historical investigation on the part of the students is not neglected, it is the conviction of the teaching staff that the *education* of a chemist is effected principally in the laboratory, and mainly through the daily contact of instructor and student at the working place of the latter.

It is desirable, though not required, that a student should have, at the beginning of his graduate work in chemistry, a good knowledge of physics, a knowledge of mathematics through calculus, and the ability to read scientific German and French. If he is deficient with respect to any of these subjects, he is advised to make up the deficiency as soon as possible after beginning his graduate work.

GRADUATE COURSES

Lectures

1. General Chemistry.

Twice weekly through the year. Professor FRAZER.

This course is required of fourth-year undergraduate students specializing in chemistry and is open to first-year graduate students.

2. Physical Chemistry.

Twice weekly through two years. Associate Professor PATRICK.

3. Advanced Inorganic Chemistry.

Twice weekly through two years. Associate Professor LOVELACE.

4. Advanced Organic Chemistry.
Twice weekly through two years. Professor REID.

5. Principles of Quantitative Analysis.
Weekly through the year. Dr. THORNTON.

6. Mathematics for Chemical Students.
Professor MORLEY.

7. Journal Meetings.
Weekly through the year.

8. Lectures upon assigned topics by advanced students.

Laboratory Courses

9. Organic Preparations (Advanced Course).
Daily for eight weeks. Professor REID.

10. Quantitative Chemistry.
Daily through the year. Dr. THORNTON.

11. Physical Chemical Methods.
Daily for eight weeks. Associate Professor PATRICK.

12. Inorganic Reactions and Electro-chemical Methods.
Daily for eight weeks. Associate Professor LOVELACE.

Examinations

Written examinations are given upon all lecture and laboratory courses, and students who are candidates for the degree of Doctor of Philosophy are required to give evidence of adequate proficiency in each of the courses taken by them before beginning research. Those who show themselves unable to pass the required examinations in a creditable manner are discouraged from attempting to secure the doctor's degree.

Dissertations

Having completed the routine work of the various laboratories and having passed with credit the required examinations, the student is assigned by the staff to one of its members, who proposes to him a problem for investigation which

may be made the basis of the doctor's dissertation, and who henceforth directs his work in the laboratory. It sometimes happens that the student has good reason for preferring some particular line of research and this course is allowed if the circumstances permit.

Special Students

For those who do not look forward to the degree of Doctor of Philosophy the rules are less rigid. A person admitted to the University as a special student is permitted to take any of the lecture or laboratory courses for which he is qualified by previous training.

UNDERGRADUATE COURSES

Students whose principal subject is chemistry are required to pursue the courses in chemistry during three years.

Course 4 is intended for those students only who have satisfactorily absolved courses 1 and 2, and may be taken the same year as Chemistry 3. It will be a help to those who intend to follow graduate work in chemistry, and also to those who desire to make a practical use of their knowledge of chemistry after receiving the bachelor's degree.

1 A. Introduction to General Chemistry.

(*a*) *Lectures and recitations, three hours weekly through the year.* Professor GILPIN.

(*b*) *Laboratory work, six hours weekly through the year.* Professor GILPIN and Assistants.

No previous knowledge of chemistry is required. The class-room work is based on Remsen's Chemistry (Briefer Course) and covers the field of inorganic chemistry as far as possible. In the laboratory the student repeats the experiments performed in the class-room, and, in addition, has some practice in qualitative analysis. Each student is required to keep a notebook of his work.

1 B. Chemistry for Engineering Students.

(*a*) *Lectures and recitations, three hours weekly through the year.*

(*b*) *Laboratory work, six hours weekly through the year.* Professor GILPIN and Assistants.

A general course in inorganic and organic chemistry arranged to meet the needs of those who expect to take only one year's work in chemistry. In the laboratory the students perform selected experiments in general chemistry and gain some facility in qualitative analysis.

2. Advanced Inorganic Chemistry, Qualitative and Quantitative Analysis.

(*a*) *Lectures and recitations, three hours weekly through the year.*

(*b*) *Laboratory work, six hours weekly through the year.*

The class-room work in this course is intended to give a more thorough knowledge of chemical and physical-chemical laws, of the properties of the metals and their compounds, and of the principles of analysis. The laboratory work is in qualitative and quantitative analysis.

3. Chemistry of the Compounds of Carbon.

(*a*) *Lectures and recitations, three hours weekly through the year.* Professor GILPIN.

(*b*) *Laboratory work, six hours weekly through the year.* Professor GILPIN and Assistants.

The class-room work of this year is devoted to the study of Organic Chemistry. The laboratory work is the making of organic preparations, but also includes practice in the analytical detection of organic substances. The text-books used are Remsen's Organic Chemistry and Norris' Experimental Organic Chemistry.

This course is open to those who have completed Course 1 and is required for entrance into the Medical School.

4. Laboratory Work only.

Laboratory work, six hours weekly through the year. Some member of the teaching staff.

This course comprises advanced laboratory work, which is arranged to meet the needs of the individual student. For those who do not intend to follow graduate work a full year of work in quantitative analysis can be arranged.

See the statement of the courses in the Department of Engineering for a chemical course leading to the degree of B. S. in Chemistry.

CLASSICAL ARCHAEOLOGY AND ART

The work in Archæology and Art is carried on by means of a Seminary, various courses of lectures, conferences with individual students, and practical exercises in the museums. The archæological material in the possession of the University includes good collections of Greek and Roman inscriptions, marbles, bronzes, vases and other terra cottas, coins, gems, etc., which not only serve the purpose of illustration but also form the basis of original investigation. These are supplemented by squeezes, photographs, and lantern slides, as well as by the casts belonging to the University and to the Peabody Institute. The Walters Art Gallery, which is not far from the University, also contains a very valuable collection of Greek and Roman antiquities.

SEMINARY AND ADVANCED COURSES

The subjects treated in the Seminary, or presented in lectures, vary from year to year, so that in three or four years of continuous residence students are brought into contact with the most important of the ancient authors and with the principal fields of archæological research. These subjects include Greek and Roman architecture, epigraphy, palæography, private life, topography, sculpture, painting, ceramics, coinage, gems, bronzes, and the Etruscan and Mycenaean civilizations.

For advanced students a reading knowledge of French and German is essential. For advanced students of Roman archæology a reading knowledge of Italian is indispensable, and for advanced students of Greek archæology an opportunity is given to learn modern Greek and to prepare for the fellowship examinations for the American School of Classical Studies in Athens.

The following courses are offered for the year 1920-21:

1. Archæological Seminary.

Selected problems and topics in Greek Archæology, especially vases and sculpture. The Seminary will be adapted to the needs of the

members in the matter of preparation of reports and papers. Subjects for research will be assigned to the students along the lines in which they are interested.

Professor ROBINSON. *Thursday*, 4 p. m.

2. Topography and Monuments of Greece and Asia Minor. Centers of Greek and Roman Life.

Selections from the archæological passages in Pausanias and Strabo will be read and lectures will be given on the topography and history of the places described by them. Such sites as Athens, Delphi, Olympia, Corinth, Eleusis, Epidaurus, the Argive Heraeum, Pergamum, Sardis, Ephesus, Priene, Miletus, etc., will be studied. The Roman as well as the Greek monuments will be explained.

Professor ROBINSON. *Wednesday*, 4 p. m.

3. Greek and Roman Vases.

A brief account of the various early wares will be given, but the principal study will be concentrated upon the Attic black-figured and red-figured vases as sources of information on Mythology and Private Life. Some study will be devoted finally to Arretine and other Roman vases.

Professor ROBINSON. *Tuesday*, 4 p. m.

4. Greek Inscriptions.

Considerable attention will be given to deciphering facsimiles and squeezes and to the epichoric alphabets. But the main aim will be to read and discuss inscriptions throwing light on the political and social history of Greece.

Professor ROBINSON. *Monday*, 11.30 a. m.

5. Latin Palaeography.

A course in Latin Palaeography will be given in the Latin department by Professor Tenney Frank during the second half-year.

Notice of other graduate courses is reserved.

UNDERGRADUATE COURSES (OPEN TO GRADUATES)

1. Roman Life, as illustrated by Latin Literature and the Monuments.

One hour weekly through the year. Professor ROBINSON.

2. History of Greek Literature.

One hour weekly through the year. Professor ROBINSON.

3. An Introductory Course in Roman Archæology and Art.

One hour weekly through the year. Professor ROBINSON.

Courses 1 and 2 are parts of Latin 4 and Greek 4, respectively, but may be pursued by any student of the University. Taken together, they count as two-thirds of a course, and with the course in Roman Archæology and Art as a full course. Students of Latin and Greek will benefit most by these courses, but no knowledge of Greek or Latin is required.

[For undergraduate courses in the History of Art, see College Courses for Teachers.]

DRAWING

The instruction aims to impart such knowledge of the principles of drawing as shall give students the ability to represent natural objects correctly.

Students in the medical, biological, or engineering courses will find this course of value in the practical illustration of lectures and laboratory work. It is required of all first-year students in Engineering.

1. Engineering Drawing.

Lettering, Orthographic and Isometric Projection.

This course is required of all students in Engineering.

Six hours weekly, first half-year. Mr. WHITEMAN.

2. Descriptive Geometry: Elements.

Special course in Freehand Drawing for students in Chemical Engineering.

Six hours weekly, second half-year. Mr. WHITEMAN.

EDUCATION

GRADUATE COURSES

The graduate work in Education provides opportunity for study and investigation in the fields of educational history, principles, psychology, administration, experiment, and in higher, secondary, and elementary education. It is designed to prepare advanced students to give instruction in the subject, to make application of the results of investigations to the problems in practical situations, and also to introduce students in special subjects to the principles which may be applied in the educational organization of their specialties.

During the year 1920-21 the courses will be as follows:

1. Educational Seminary.

The work of the year includes studies in the field of educational organization and administration. Topics relating to the legal, the instructional, or the business aspects of education, as defining the special interests of the members, are considered. Attention is given to the results of representative studies in this field, and to the material available in the reports of recent and current surveys of educational systems.

Professor BUCHNER. *Saturday*, 9.15–11 *a. m.*

2. Experimental Education.

This course includes a study of the aims and general methods of educational research and measurement. Special attention is given to the technique of statistics in relation to their application to education, the derivation and application of tests and scales in school subjects, and the measurement of the intelligence of school children, with reference to the control of instruction and school organization.

Professor BUCHNER. *Saturday*, 11.15 *a. m.*–1 *p. m.*

3. Modern Educational Theory.

A study of the current social theories of the school and their application is undertaken, including such topics as the democratic conception of education, the curriculum, the development of classroom conduct and the modification of schoolroom procedure. Reports on required readings and observation of typical schools in the vicinity will be required.

Miss BAMBERGER. *Monday*, 4-6 *p. m.*

4. Higher Education.

The problems of university and collegiate administration, organization, and instruction are considered on the basis of the methods and results of the investigation of special phases of higher education in the United States.

Professor BUCHNER. *One hour a week.*

5. Secondary Education.

This course will deal with the principal topics of high school organization and administration, including important current problems, such as supervised study, the reorganization of secondary education, and the junior high school.

Dr. WEGLEIN. *Two hours a week.*

6. Supervision of Elementary Schools.

During the first half-year attention is given to such topics as general principles of instruction, the proper method of study, standards for judging instruction, and the improvement of teachers in service, as based on the observation and discussion of recitations.

The application of standard tests and scales for the measurement of schoolroom subjects is taken up during the second half-year, emphasis being placed on the technique of conducting tests, determining class standings, and evaluating methods of teaching and of material. Each student will be required to give at least one test to a class of children, to organize the data, and to interpret the results

Miss BAMBERGER. *Wednesday*, 4.10–6 *p. m.*

UNDERGRADUATE COURSES

Introductory courses in Education are given in the College Courses for Teachers (see special circular), and form part of the program from which election may be made by candidates for the degree of Bachelor of Science. By action of the Board of Collegiate Studies, candidates for the degree of Bachelor of Arts expecting to teach may elect, subject to approval, such courses as will enable them to meet the requirements of Boards of Education and Boards of Examiners.

College graduates may qualify for the Maryland State High School Teachers' Certificate in the regular academic subjects, provided "that during their college course at least two high

school branches were continuously pursued for two years," and "provided that they had not less than two hundred recitation hours of instruction in education, including the aims of secondary education, and in the methods, observation, and practice teaching of high school studies."

The State Board of Education has provided that the minimum amount of college work in Education, which will meet the requirements of the State Law, shall include history of education, educational psychology or principles of education, principles of teaching and special methods in secondary school subjects, and secondary school organization and class-room management.

1. History of Education.

   Professor BUCHNER. *Monday and Wednesday,* 5.10 *p. m.*

2. Principles of Education.

   Professor BUCHNER. *Tuesday,* 4.20-6 *p. m.*

3. Educational Psychology.

   Professor BUCHNER. *Monday and Wednesday,* 4.10 *p. m.*

4. Principles of Teaching and Special Methods in Secondary School Subjects.

   Professor BUCHNER, Miss BAMBERGER and Dr. WEGLEIN. *Two hours a week.*

5. Secondary School Organization and Class-Room Management.

   Dr. WEGLEIN. *Tuesday and Friday,* 4.10 *p. m.*

6. Special Problems in Secondary Education.

   Dr. WEGLEIN. *Tuesday and Friday,* 5.10 *p. m.*

7. Elementary Education.

   Miss BAMBERGER. *Saturday,* 9.15-11 *a. m.*

8. Elementary School Organization and Class-Room Management.

   Miss BAMBERGER. *Saturday,* 11.15 *a. m.*-1 *p. m.*

ENGLISH

GRADUATE COURSES

In the graduate courses the subject of English is studied with reference to the historical and technical aspects of linguistic and literary science. The usual sequence of courses enables a student, in three or four years, to study with precision the important departments of grammar and of literature, and to become trained in the processes of original investigation. Instruction is imparted by lectures, by freer conferences, by the methods of the Seminary, and by class-room recitation. A Journal Club is conducted for the purpose of supplementing the regular courses with reports of the current work of scholars.

1. *English Seminary*

Graduate students are admitted to the Seminary as soon as they have satisfied initial requirements for independent research. The following subjects will be studied in the Seminary in the academic year 1920-1921: (1) Some of the principal poems of Chaucer (first third of the year); (2) The Liturgical Drama, the Cycles of Religious Plays, and the Morality Plays (from January to the end of the year). Professor BRIGHT. *Tuesday and Thursday,* 3-5 *p. m.*

2. Interpretation of Anglo-Saxon Texts (first half-year). Professor BRIGHT. *Monday,* 12 *m.*

3. Plays of Shakespeare (second half-year). Professor BRIGHT. *Monday,* 12 *m.*

4. Lectures on the History of English Sounds. Professor BRIGHT. *Wednesday,* 12 *m.*

5. An introductory course in Anglo-Saxon, with lectures on the Germanic and Indogermanic relationship of the language. Professor BRIGHT. *Friday,* 3-5 *p. m.*

6. Ten lectures on the Tudor-Stuart Drama. Dr. S. C. CHEW. *Second half-year.*

7. The Journal Club of the English Seminary. Professor BRIGHT. *Alternate weeks, two hours.*

UNDERGRADUATE COURSES

English Composition

1. Rhetoric and English Composition.

Theory, based upon text-books, lectures, and discussions; critical study of English prose; frequent practice in writing. This course is prescribed during the first year.

Three hours weekly through the year. Associate Professor FRENCH and Assistants.

2. English Composition.

A course in written English in which special attention is paid to exposition and argument.

Two hours weekly during the first half-year. Mr. CUSHING.

Public Speaking

1. (*a*) Reading and Platform Speaking.

During the first half-year attention is paid to correct habits of breathing and to enunciation and expression.

(*b*) The Speech for Special Occasions.

The second half-year is devoted to the study and practice of speeches adapted to various special occasions. Some opportunity for drill in impromptu speaking is afforded at the close of the year.

One hour weekly through the year. Associate Professor FRENCH and Assistants.

2. The Forms of Public Address.

An advanced course in oral English. Emphasis will be laid upon public discussion and persuasion. This course is open to students who have taken Public Speaking 1.

Two hours weekly through the second half-year. Associate Professor FRENCH.

English Literature

1. English Literature, 1500-1625.

A survey of the revival of learning and of the effect of this movement upon literature in England; a more careful study of English Literature during the latter half of the reign of Queen Elizabeth and of the reign of James I,—more particularly of poetry, drama, and

prose, as represented in the writings of Spenser and the Elizabethan and Jacobean lyrical poets, of Shakspere, and of Bacon.

Three hours weekly through the year. Associate Professor FRENCH and Mr. WEBER.

2. English Literature, 1765-1834.

English Literature from the publication of Percy's *Reliques* to the death of Coleridge; the study will include English and Scottish Popular Ballads, and the writings of Burns, Wordsworth, Coleridge, Keats, Shelley, Byron, and Scott.

Three hours weekly through the year. **Professor GREENE.**

3. American Literature.

A study of the various types of verse and prose as they are represented in American literature, with incidental reference to literary history and biography. The writing of themes and essays based upon selected works, including the works of contemporary authors, will be an important part of the course.

Three hours weekly through the year. Associate Professor FRENCH.

[This course will not be given in 1920-1921.]

Courses 1, 2, and 3 are planned for students who are taking a first course (in college) in English Literature.

Courses 4, 5, 6, and 7 are advanced courses for students who have already taken an introductory course. Course 1 is an appropriate introduction to Courses 4, 5, and 6; Course 2, to Course 7.

4. English Literature, 700-1500.

A survey of the literature before the Norman Conquest; an introduction to Middle English; careful reading of a few of the poems of Chaucer and rapid reading of other poems; reading of romances and lyrical poems.

Three hours weekly through the year. **Professor GREENE.**

5. Shakespere: Elizabethan Drama.

This course will include (*a*) the reading of a considerable number of the plays of Shakspere, and a careful study of two or three of the plays: (*b*) a survey of the development of the English drama from its origin to 1642; and (*c*) the reading of several of the plays of Marlowe and Ben Jonson,—and of other dramatists if time serves.

Three hours weekly through the year. **Professor GREENE.**

6. English Literature, 1625-1774.

First half-year: English literature from 1625 to 1674; special attention will be given to the English Bible and to the works of Milton.

Second half-year: From the Restoration to the death of Goldsmith (1660-1774); special attention will be given to the writings of Dryden, Addison, Steele, Swift, Pope, Gray, Goldsmith, and Johnson.

Three hours weekly through the year. **Professor GREENE.**

[This course will not be given in 1920-1921.]

7. English Literature, 1832-1900.

A study of Victorian literature, chiefly as represented in poetry, essay, and novel. Special attention will be given to the writings of Tennyson, Browning, Arnold; Carlyle, Macaulay, Ruskin; Dickens, Thackeray, George Eliot.

Three hours weekly through the year. Professor GREENE.

GEOLOGY

The courses in Geology are arranged to cover the entire field of Geology from the elements to advanced discussions of special topics in Historical Geology, Paleontology, Petrography, Dynamical Geology, and Economic Geology. All of the courses are open to qualified students, but it is not required that all courses should be taken for advanced degrees. Sufficient latitude in requirements and selection of subjects is allowed to permit specialization based upon a thorough grounding in the fundamentals of the science as a whole.

The Undergraduate courses are open to advanced students whose previous work has not included the requisite amount of preliminary training for the advanced courses. They are so arranged that after the first year some latitude in selection is allowed to meet the requirements of students in chemistry, engineering, and geology.

The Graduate courses are so arranged as to permit a distinction between descriptive courses essential to all students of geology and more advanced courses leading to specialization in different aspects of the general subject. The order in which the courses are *generally* taken is indicated by the sequence below, but every effort is made to adjust the graduate courses as to time and subject matter to accomplish the maximum development of the individual student.

The Laboratory and Library are open every day from 8.30 a. m. until 5 p. m. and all the members of the teaching staff are generally present for conference or consultation.

Undergraduate Courses

1. Elements of Geology.

Four lectures or recitations and three hours of laboratory work each week through the year. Professor SWARTZ.

This course is open to all students. It is designed to give a general view of the subject of geology, and may profitably be pursued by those who wish to have some knowledge of the chief events of the earth's history. It includes an account of the origin of the features

of the surface of the earth, a discussion of the phenomena of earthquakes, volcanoes, mountain-making, and an outline of the past history of the earth.

Materials illustrative of the lectures are studied in the laboratory. Emphasis is placed upon the observation of geological phenomena in nature, the State of Maryland presenting features of unusual interest for such study. Frequent excursions are made to neighboring points where the principles of the science are studied in the field, while a longer trip is made in the Spring to places of special interest for geological study. This course is illustrated by maps, lantern views, and the rich collections of the University.

2. Mineralogy and Elementary Petrography.

Part 1. *Two lectures and four hours of laboratory work each week through the year.* Professor SWARTZ.

This course includes the study of crystallography, a discussion of the more important minerals, and a brief consideration of the origin and characteristics of the chief types of rocks. Numerous excursions are made to points of interest in the vicinity of Baltimore, which is unusually rich in the variety of its rocks and minerals.

Emphasis is laid upon laboratory work, which includes the study of crystal models, the identification of minerals by means of the blowpipe and by inspection, and the examination of rocks in the laboratory and in the field. A knowledge of chemistry is required for the pursuit of this course.

Part 2. *One lecture and two hours of laboratory work each week through the year.* Professor SWARTZ.

This is open to students who are pursuing Part 1 and who wish a more thorough knowledge of crystallography and mineralogy than is afforded by that course. It offers a more advanced discussion of those subjects, while a larger number of the more important minerals are studied in the laboratory.

3. Applied Geology.

Three lectures each week through the year. Professor MATHEWS.

This course is designed for students in geology and engineering who have had one or both of the preceding courses. Its aim is to show the relation of geological phenomena and geological conditions to human activities. It includes discussions of coal, oil, clay, building stones, water supply, etc., and imparts information on these subjects such as an educated man should possess. It does not include a treatment of the technical questions of metallurgy or mining.

[The course in Applied Geology will alternate with that in Commercial Geography.]

4. Historical Geology.

Three lectures each week through the year. Professor BERRY.

This course aims to present the main events in the past history of the earth as disclosed by the stratified rocks and the relics of animal and plant life which they contain. Open to students who have taken Geology I.

5. Commercial Geography.

Three lectures each week through the year. Professor MATHEWS.

This course is offered to students of the University interested in political economy or other academic courses. It is designed to present a general picture of the physical features of the earth in their relations to commerce and industry; the characteristics of districts and commodities and the commercial inter-relationships of the various countries of the earth. While primarily for Juniors and Seniors, this course is open to all students.

[The course in Commercial Geography will alternate with that in Applied Geology.]

Graduate Courses

Systematic Paleontology.

Three lectures and two afternoons of laboratory work each week through the year. Professor BERRY.

A systematic course in invertebrate paleontology and paleobotany covering the morphology, ontogeny, distribution, and phylogeny of the various groups represented in the geologic record and their existing representatives.

Systematic Petrography.

Three lectures and two afternoons of laboratory work each week through the year. Professor MATHEWS.

This course consists of two parts. The first aims to present the principles of optical mineralogy and a description of the optical properties of the more important minerals occurring in rocks. The second deals with the classification and description of the more important rocks of igneous, sedimentary, and metamorphic origin.

Geography.

Two hours each week through the year. Professor REID.

This course consists of two parts:

(a) General Geography, first half-year. This course is intended as introductory to the more detailed study of the problems of physical geology. It takes up the general characteristics of the earth as a

whole, shape of its surface, distribution of land and water, and the general characteristics of the land and oceanic areas, etc.

(b) Exploratory and Geological Surveying, second half-year. This course covers the general methods of surveying, with special reference to the methods that would be used in explorations and the methods of working out the general structural geology of a region.

Economic Geology.

Three lectures and one afternoon of laboratory work each week through the year. Associate Professor SINGEWALD.

This course consists of four parts:

(a) Principles of Ore Deposits, including description of major types of ore deposits with special emphasis on the mode of occurrence, form and content, and of subsequent changes in form and content due to physical and chemical processes. Two hours through first half-year.

(b) Ore Deposits of Europe. One hour through first half-year.

(c) Ore Deposits of the United States. Three hours through second half-year. The latter include a discussion of the mineralization and its distribution with descriptions of the principal ore-deposits.

(d) Field trip in April to important mineral deposits of Eastern Pennsylvania and New Jersey. [$25.00.]

Advanced Petrography.

Two lectures and two afternoons of laboratory work each week through the year. Professor MATHEWS.

This course aims to present by lectures and conferences topics of special importance in mineralogy and petrography, such as the properties of silicate magmas, eutectics, the physical chemistry of selected mineral systems, the role of colloids in geological phenomena, the principles underlying rock classification, the history of igneous activity, etc.

Dynamic and Structural Geology.

Two lectures each week through the year. Professor REID.

In this course special problems in physical geology and general physiography are considered in conferences and lectures. The topics considered include in physical geology such matters as the methods of determining the size and shape of the earth; the distribution of density of the earth; isostasy; tides; rigidity of the earth; temperature of the earth; estimates of its age; earth movements and the origin of mountain ranges; dynamics of faulting and folding; earthquakes; volcanoes; and photographic surveying.

In general physiography such subjects as the character and origin

of various land forms, special problems of erosion and deposition, the physical character of lakes, rivers, and mountains, glaciers and glacial geology are taken up.

Advanced Paleontology and Historical Geology.

Two afternoons each week through the year. Professor BERRY.

One afternoon each week is devoted to conferences and special problems covering the principles and application of geological chronology and one afternoon each week is devoted to special problems in the interpretation of fossil faunas and floras. The seminar method is largely used and original work on the faunal and floral facies, succession, and their interpretation in terms of environment and for purposes of correlation is emphasized.

Advanced Economic Geology.

Three lectures and one afternoon of laboratory work through the year. Associate Professor SINGEWALD.

This course consists of three parts:

(a) Consideration in seminar of such topics as magmatic segregation, contact metamorphism, source and nature of mineralizing solutions, ore shoots and their classification, secondary enrichment, bases of classification of ore deposits. Two hours.

(b) Mineral deposits of South America. Discussion of geologic relations, mineralogic characteristics and genetic features of mineralization in the South American continent. Description of principal mineral deposits in each of the countries. One hour.

(c) Microscopic study of ores in the laboratory.

Library

The Library of the Geological Department is a large collection of carefully selected works which contains practically all monographs and original publications referred to in geological literature, with sufficient text-books, compendiums, and other works of compilation to meet the needs of the less mature students. The library contains over 15,000 volumes and 16,000 pamphlets, and is being constantly enlarged by the acquisition of contemporaneous publications and old classic works. It is especially strong in the less accessible publications of the official Surveys of Europe and the more accessible official reports of America. All of the current serials received by the department, totalling 390-400, are analyzed and their contents catalogued by author, subject, locality, and geologic

horizon, if necessary, giving to the students and staff valuable bibliographies from many viewpoints.

Collections

The study and reference collections are especially extensive, particularly in petrography, paleontology and economic geology. The various ore-producing regions of the world are well represented and the paleontologic materials from the classic localities of Europe are extensive. The Department has devoted much time to exploration in South America, and the ore deposits, minerals and fossils from that continent available for the work of advanced students is probably the most complete in the world.

Relations to Washington

The proximity to Washington makes available to the student the resources of additional extensive libraries and collections and affords the advantages of personal intercourse with the large group of scientific men at the Smithsonian Institution and National Museum, the U. S. Geological Survey, the Bureau of Mines, and the Geophysical Laboratory of the Carnegie Institution.

Relations to the Maryland Geological Survey

The Maryland Geological Survey has been conducted under the auspices of the Geological Department since 1896 and covers a wide variety of work. The geological work of the Survey has been devoted on the one hand to a study of the stratigraphy and paleontology of the State, and on the other to the mineral products, in both of which lines a large number of publications has resulted. The advanced students of the department are thus afforded unusual opportunities to participate in practical Survey activities. Many of them are employed during the year, especially during the summer vacation, in field work for which they receive remuneration. Field material for dissertations is frequently secured, which is subsequently worked up in the laboratory. Opportunity for publication is afforded by the Survey reports.

GERMANIC PHILOLOGY
GERMAN LANGUAGE AND LITERATURE

SEMINARY

The Seminary is divided into two sections. Section A (the German Seminary) is chiefly concerned with the study of German Literature (both Modern and Middle High German), and will be conducted by Associate Professor KURRELMEYER. During the year 1920-21 this section will meet three times weekly. The subject for the first half-year will be German Literature at the period of *Sturm und Drang*. During the second half-year the Middle High German *Nibelungenlied* will be studied.

Section B (the Germanic Seminary) has for its object the historical study of German Grammar and the philological study of the Old Germanic Languages. This section will be conducted by Professor COLLITZ, and will meet twice weekly. The subject for the first half-year will be one of the leading Middle High German court epics, viz. Hartmann von Aue's *Iwein*. During the second half-year selections from Old Saxon poetry (i. e., *Heliand* and *Genesis*) will be studied.

Students in Section A are requested to procure *Deutsche Nationallitteratur*, hrsg. v. J. Kürschner, Bde. 79-81 (*Stürmer und Dränger*), and Bd. 107 (*Goethes Kleine Jugendschriften in Prosa*); *Der Nibelunge Noth und die Klage*, hrsg. v. K. Lachmann, 5. Ausgabe, Berlin, 1878; *Das Nibelungenlied*, Schulausgabe mit Wörterbuch v. K. Bartsch, 6. Aufl., Leipzig, 1911, F. A. Brockhaus.

Members of Seminary B are requested to procure the edition of Hartmann's *Iwein* by Benecke and Lachmann (4. Ausgabe, Berlin, 1877), and that of *Heliand und Genesis* by O. Behaghel (3. Aufl., Halle, 1910).

ADVANCED COURSES

GERMANIC PHILOLOGY

1. General Phonetics, introductory to the Study of Modern Languages.

One hour weekly, first half-year. Professor COLLITZ.

The Modern German and English sounds will receive the chief share of attention. Henry Sweet's *Primer of Phonetics*, 3rd ed., Oxford, 1906, will be used as a text-book.

2. Gothic and the Elements of Comparative Germanic Grammar.

Two hours weekly through the year. Professor COLLITZ.

Gothic being the most archaic Germanic language, the study of Gothic grammar may conveniently be combined with that of the features common to the various Germanic languages.

Students are requested to procure W. Braune, *Gotische Grammatik*, 9. Aufl., Halle, 1920.

3. Elementary Old Norse.

Two hours weekly, first half-year. Professor COLLITZ.

H. Sweet, *An Icelandic Primer*, 2nd ed., Oxford, 1895.

4. The Younger Edda.

One hour weekly, second half-year. Professor COLLITZ.

This course is intended to serve as a continuation of the preceding one.

Die Prosaische Edda, hrsg. von E. Wilken. Teil I (*Text*) und II (*Glossar*). 2. Aufl., Paderborn, 1912-13.

5. Old Frisian.

Two hours weekly, second half-year. Professor COLLITZ.

The importance of Old Frisian rests on its close relationship both to Anglo-Saxon and Old Saxon (i. e., the language of the *Heliand*).

Heuser, *Altfriesisches Lesebuch*. Heidelberg, 1903.

GERMAN LANGUAGE AND LITERATURE

1. German Dialects.

Two hours weekly through the year. Professor COLLITZ.

A study of the principal types of German dialects, both of Low and High German. Selections for reading will chiefly be chosen from Regenhardt, *Die deutschen Mundarten* (3 vols., I. *Niederdeutsch;* II. *Mitteldeutsch;* III. *Oberdeutsch*). Berlin, 1897-99.

2. Middle High German (Introductory Course).

Two hours weekly, first half-year. Associate Professor KURRELMEYER.

Paul, *Mittelhochdeutsche Grammatik*, 10. Aufl., Halle, 1918; Hartmann von Aue, *Der Arme Heinrich*, hrsg. von H. Paul; Lexer, *Mittelhochdeutsches Taschenwörterbuch*.

3. Goethe's Lyrical Poems.

Two hours weekly, second half-year. Associate Professor KURRELMEYER.

Goethe's Lyrical Poems will be studied chronologically, in a selection designed to illustrate the change and growth in Goethe's language and style.

Students are requested to procure *Goethes Werke,* Jubiläums-Ausgabe, Bde. 1-4. Stuttgart und Berlin, 1907.

4. Conrad Ferdinand Meyer.

Two hours weekly, first half-year. Associate Professor ROULSTON.

A study of Meyer's life and works. Special attention will be paid to the development of the historical *Novelle* and the *Rahmenerzählung,* and to the evolution of *Huttens letzte Tage* and the *Gedichte* into their present form. Students should be provided with Meyer's complete works, published in nine volumes by Haessel, Leipzig.

5. Goethe and Schiller: 1794-1805.

Two hours weekly, second half-year. Associate Professor ROULSTON.

This course will be based primarily upon the correspondence between Goethe and Schiller. The works of the two poets during this period will be studied, together with the gradual formulation of the classical ideas and ideals. Special attention will be paid to Schiller's esthetic theories and the *Balladenjahr.* Students should be provided with the *Briefwechsel zwischen Goethe und Schiller,* hrsg. v. Hans Gerhard Gräf u. Albert Leitzmann, Insel-Verlag, Leipzig, 1912.

UNDERGRADUATE COURSES

German Elements. (See College Courses for Teachers.)

German 1.

Modern Prose Readings: C. F. Meyer, Keller, Fontane, Sudermann, and others. Practical Exercises. Private Reading.

Four hours weekly through the year. Associate Professor ROULSTON.

German 2.

Contemporary German: Novel and Drama.

Three hours weekly through the year. Associate Professor KURRELMEYER.

German 3.

Goethe and Schiller: Goethe, *Faust;* Schiller, *Wallensteins Lager, Wallensteins Tod.*

Private Reading: Goethe, Selected Poems; Schiller, *Die Piccolomini.* History of German Literature. Lectures and Assigned Readings.

Three hours weekly through the year. Associate Professor ROULSTON.

German 4.

Scientific German: Lassar-Cohn, *Die Chemie im täglichen Leben;* von Helmholtz, *Populäre Vorträge;* Walther, *Allgemeine Meereskunde.*

Two hours weekly through the year. Associate Professor KURRELMEYER.

German 5.

Medical German.

Two hours weekly through the year. Associate Professor ROULSTON.

This course is intended primarily for students who propose to enter the Medical School. It should, therefore, not be taken before the junior or senior year. Students should have had three years of German before entering this course.

GREEK

SEMINARY

The Greek Seminary meets three times a week under the direction of Professor MILLER. The Seminary consists of the director and advanced students. All graduate students, however, may have the privilege of attending the meetings. Each regular member is required to take his turn in the work of the Seminary, and special subjects for research are assigned according to progress and bent.

The plan of the Seminary is based on the continuous study of some leading author or some special department of literature. Thus, during the last few years, the following subjects have been studied: Greek Historiography, especially Thucydides, 1915-6: Greek Tragedy, especially Aeschylus, 1916-7; Plato and Early Greek Philosophy, 1917-8; Greek Oratory, 1918-9; the Pre-Socratics, Plato, and Lucian, 1919-20.

During the next academic year, the study of Greek Comedy will constitute the chief occupation of the members. In addition to a complete text of Aristophanes, the student should possess Kaibel's Comicorum Graecorum Fragmenta, Pickard-Cambridge's Select Fragments of the Greek Comic Poets, Koerte's Menandrea (last edition), and Crusius' Herondas (last edition).

OTHER GRADUATE COURSES

1. Professor MILLER will conduct a course in *Greek Rhythmic and Metric.* The course will consist of lectures and practical exercises. There will be one meeting a week throughout the year.

2. He will conduct exercises in *Greek Composition* weekly throughout the year.

3. Dr. Strickler will conduct a course in *Euripides* weekly throughout the year.

UNDERGRADUATE COURSES

Greek Elements.

Benner-Smyth, *Beginner's Greek Book;* Xenophon, *Anabasis.*

Three hours weekly through the year. Dr. STRICKLER.

This course is intended primarily for the benefit of such graduate students of language as may feel the need of a knowledge of Greek in the prosecution of their work; but undergraduate students who have not had any previous training in Greek may also be admitted.

Intermediate Greek.

Homer and Prose Selections.

Three hours weekly through the year. Dr. STRICKLER.

This course is planned for students who have completed the preceding course, and is designed to connect with Greek 1.

Greek 1.

Xenophon, *Memorabilia* (selections).

Plato, *Apology.*

Herodotus (selections).

Three hours weekly, first year. Dr. STRICKLER.

Prose Composition.

One hour weekly, first year. Dr. STRICKLER.

Private Reading: Plato, *Crito;* Homer, *Odyssey* (two books).

Greek 2.

Lysias (selections); Isocrates (selections).

Euripides (one play).

Prose Composition.

Three hours weekly, second year. Dr. STRICKLER.

Private Reading: Xenophon, *Hellenica* (book 1); Lucian (selections).

Greek 3.

Plato, *Protagoras.*
Lyric Poets.
Sophocles (one play).
Prose Composition.

Three hours weekly, third year. Dr. STRICKLER.

Private Reading: Elegiac and Iambic Poets; Euripides (one play).

Greek 4.

Thucydides VII (selections).
Aristophanes, *Frogs.*

Two hours weekly, fourth year. Professor MILLER.

Greek Literature, with reading of selected passages.

Weekly, one year. Professor ROBINSON.

Private Reading: Demosthenes (select orations); Aeschylus (one play).

NOTE.—Greek Literature (Greek 4), Roman Literature (Latin 3), Greek Life (Archaeology 3), and Roman Life (Archaeology 1), each one hour weekly for one year, are open to all students. A combination of any three of these courses is counted as a full course.

HISTORY

Facilities for research are offered in the principal fields of history. Special attention is given to methods of investigation and each advanced student comes under the personal direction of the instructors in his chosen field. This supervision is obtained through seminary meetings and frequent private consultation.

In addition to the library of the University, students make use of the admirable collections of source material in the Peabody Library and the Maryland Historical Society, and are in constant touch with the great resources of the Library of Congress and the departments in Washington. The University library is constantly receiving accessions of historical works and documentary material.

GRADUATE COURSES

American History. The Seminary in American history is conducted by Professor Latané and meets for two consecutive hours on alternate Wednesdays. Membership is limited to graduate students who are making history their principal subject. In order that the student may concentrate his attention on a given period or topic, the work of the Seminary parallels to a large extent that of the lecture courses; that is, the topics assigned for investigation and report are closely related to the lectures and involve a more detailed study of the source material than can be given in the lecture courses.

The work in American history is planned to cover three years of continuous study. The first half of each year is devoted to some phase or period of the political and constitutional history of the United States, and the second half to some phase of American diplomatic history. The close proximity to Washington affords exceptional facilities for studies in the field of diplomacy.

European History. The Seminary conducted by Professor Vincent is devoted to the investigation of problems in European history and institutions for the purpose of acquiring facility in various fields of research. The lecture courses direct attention to the social, economic, and constitutional development of the great nations of Western Europe. The subjects follow in consecutive order, the topics for each year forming a complete and independent group. The series requires three years for completion and offers opportunities for close study of selected portions of the mediæval and early modern history of the Continent. Theory and method of research are treated in connection with the sciences auxiliary to history.

English History. The constitutional and social history of England is treated in connection with the corresponding periods in European history. A part of the seminary work is devoted to problems in this field and direction is given to further special research.

Ancient History. The courses of Associate Professor Magoffin treat of the constitutional, social, artistic, and economic development of the peoples of Greece and Italy. Special attention is given to the historical evidence furnished by epigraphy and archæology. The constitutional history of Greece and Rome is supplemented by lectures on the Roman Law. Certain portions of Oriental history are treated in the departments of Semitics and Sanskrit.

Special Lectures. The Albert Shaw Lectures on Diplomatic History are given annually by investigators in selected fields of American and foreign relations. The last course (1916-1917) was given by Professor Payson J. Treat, of Stanford University, whose subject was "The Early Diplomatic Relations between the United States and Japan, 1853-1865." Ten volumes of Shaw Lectures have been published by the Johns Hopkins Press.

The James Schouler Lectures on History and Political Science are given annually by men of prominence, upon topics indicated in the title of the lectureship. These lectures are open to the public as well as to the students and members of the University. The lecturers on this foundation have been Dr. Abbott Lawrence Lowell, president of Harvard University; George Walter Prothero, Litt. D., formerly professor of history in the University of Edinburgh; Professor John Bassett Moore, of Columbia University; Dr. James Schouler; Professor Joseph Redlich, of the University of Vienna; Hon. Charles Francis Adams; Professor William A. Dunning, of Columbia University; Dr. David Jayne Hill; and Dr. Paul S. Reinsch.

Other lectures of interest to the students of this department, either open to the public or designed for class instruction, are given from time to time by distinguished scholars outside the University. These lectures are, in part, provided for from the income of the funds bequeathed by the late Professor Herbert B. Adams and Mr. A. J. Robinson.

The courses for the year 1920-21 will be as follows:

Professor LATANÉ.

1. Seminary of American History.

Two hours, alternate weeks.

2. American Constitutional and Political History, 1789-1865.

Two hours weekly, first half-year.

3. Latin-American History and International Relations.

Two hours weekly, second half-year.

Professor VINCENT.

1. Seminary of European History.

The work will include a systematic study of the various classes of material and the auxiliary sciences employed in historical research. The topics for investigation will be taken from European and English history in the sixteenth century.

Two hours, alternate weeks.

2. The Period of the Reformation.
Two hours weekly, first half-year.

3. Europe in the Seventeenth Century.
Two hours weekly, second half-year.

Associate Professor MAGOFFIN.*

1. History of Greece. [Not given in 1920-21.]
One hour weekly through the year.

2. History of Rome. [Not given in 1920-21.]
One hour weekly through the year.

UNDERGRADUATE COURSES

1. History of Greece and Rome.

The political, constitutional, social, and industrial history of Greece and Rome, approached through the translated texts of Herodotus, Thucydides, Plutarch, Suetonius, Tacitus, Cassius Dio, and others, with the aid of modern authorities.

Three hours weekly through the year. Mr. BAKER.

2. European History.

A rapid view of the history of the Middle Ages from the decline of the Roman Empire to the Reformation will prepare for the consideration of modern states and political institutions. Special emphasis will be laid upon the nineteenth century and the tendencies of recent national development.

Three hours weekly through the year. Professor VINCENT.

3. English History. [To be given in 1921-22.]

Chiefly constitutional and political, dealing with the origin and development of parliamentary institutions, the relations of England with continental Europe, and the modern expansion of the British Empire.

Three hours weekly through the year. Professor VINCENT.

4. American History.

The discovery and settlement of America, British colonial policy, the Revolution and the adoption of the Constitution, the development of nationality, the slavery conflict, reconstruction, expansion, and international relations.

Three hours weekly through the year. Professor LATANÉ and Mr. THACH.

* Absent on leave as Director of the American Academy in Rome.

LATIN

The Latin Seminary meets twice a week through the year. It consists of the director, fellows, scholars, and such advanced students as have given satisfactory proof of their ability and training. Any graduate student is at liberty to attend the exercises, but only regular members are permitted to take part in the work. Each year some author or closely associated group of authors is made the centre of study. In addition to the seminary, courses in special authors and departments of literature, in grammar and composition, literary history, paleography, etc., will be scheduled three hours weekly in a three-year sequence.

During 1920-21 the graduate courses will be as follows:

1. Seminary in Vergil and Horace.
   Professor FRANK. *Two hours weekly.*

2. Roman Satire.
   Professor MUSTARD. *Two hours weekly.*

3. (*a*) Ennius (first semester); Paleography (second semester).
   Professor FRANK. *One hour weekly.*

UNDERGRADUATE COURSES

1. Livy (selections); Horace (selections); Prose Composition.
   Four hours weekly through the year.

2. Tacitus, *Annals* (selections); Pliny's *Letters* (selections); Catullus.
   Three hours weekly through the year.
   Private Reading: Tacitus, *Germania;* Cicero, *Second Philippic.*

3. Lucretius (selections); Vergil, *Georgics;* Horace, *Ars Poetica.*
   Three hours weekly through the year.

Private Reading: Cicero, *First Tusculan;* Horace, *Satires and Epistles* (selections).

4. Plautus (one play); Juvenal (selections); Seneca's *Letters* (selections).

Three hours weekly through the year.

Private Reading: Terence (one play); Martial (selections).

5. Roman Literature (with reading of selected passages).

Weekly through the year.

6. Advanced Latin Composition.

Weekly through the year.

MATHEMATICS

The advanced courses are so arranged that a qualified student gets in three years the more important points of view of the whole subject. The courses are elastic in character, subjects being introduced as they are needed. In general, the plan pursued is to further independent inquiry on the part of the student. Once embarked on investigation, he uses all the apparatus of lectures and library with intelligent purpose. The seminary, which meets weekly, is primarily intended for the presentation of the results of the student's own thinking. Literature either intrinsically important or opportune is presented and discussed in the reading class, which also meets weekly. The following courses are offered:

ADVANCED COURSES

1. Mathematical Seminary.

One hour weekly. Professor MORLEY.

2. Reading Class.

One hour weekly. Professor MORLEY.

3. Higher Geometry.

Three hours weekly, first half-year. Professor MORLEY.

This is a general course in Geometry, covering in three years such matters as Projective Geometry, the Invariants of Algebraic Forms, Line Geometry, Conformal Geometry on an Algebraic Curve and Surfaces.

4. Theory of Functions.

Three hours weekly, second half-year. Professor MORLEY.

Algebraic Functions and their Integrals; Elliptic, Elliptic Modular, and General Automorphic Functions; Theory of the Potential.

*5. Dynamics.

Two hours weekly, second half-year (every other year). Professor MORLEY.

Special stress is laid on Rigid Dynamics.

*6. Vector Analysis.

Two hours weekly, first half-year (every other year). Professor MORLEY.

7. Elementary Theory of Functions.

Two hours weekly. Associate Professor COHEN.

An introduction to the theories of functions of a real and a complex variable.

*8. Differential Equations.

Two hours weekly. Associate Professor COHEN.

Including, in three years, Ordinary Differential Equations, their Integral Curves and Singular Points; Partial Differential Equations; Lie's Theory.

9. Differential Geometry.

Two hours weekly. Associate Professor COHEN.

Including a study of Curves in Space; Surfaces and Lines upon them; Quadratic Differential Forms; Invariants.

*10. Calculus of Variations.

Two hours weekly. Associate Professor COHEN.

*11. Theory of Numbers.

Two hours weekly. Associate Professor COHEN.

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* Courses thus marked will *not* be given in 1920-21.

*12. Theory of Groups.

Two hours weekly. Dr. MUSSELMAN.

Including Theory of Equations, Finite Geometries, Theory of Algebraic Forms.

*13. Theory of Correspondences.

Two hours weekly. Dr. MUSSELMAN.

Including such matters as Cremona Transformations, General Birational Transformations.

*14. Theory of Probability.

Two hours weekly, one-half year. Dr. MUSSELMAN.

Including applications to Statistics and the Theory of Errors.

15. Electricity and Magnetism.

Three hours weekly. Dr. MURNAGHAN.

Application of spherical and cylindrical harmonics; the theory of transmission of signals with special reference to long-distance telephony and wireless telegraphy.

*16. Dynamics of Rigid and Deformable Bodies.

Three hours weekly, second half-year. Dr. MURNAGHAN.

Attention will be directed to the theory of the gyroscope and the problem of the stability of the aeroplane.

*17. Modern Theory of Gravitation.

Two hours weekly, first half-year. Dr. MURNAGHAN.

UNDERGRADUATE COURSES

1. Trigonometry; Plane Analytic Geometry; Elements of Calculus.

Three hours weekly. Professor HULBURT, Associate Professor COHEN, Dr. MURNAGHAN, and Dr. MUSSELMAN.

Conference.

Two hours weekly.

2. Differential and Integral Calculus.

Three hours weekly. Professor HULBURT, Associate Professor COHEN, and Dr. MUSSELMAN.

Conference.

Two hours weekly.

3. Applications of Calculus; Differential Equations; Mechanics.

Three hours weekly. Associate Professor COHEN.

4. Projective Geometry; Higher Plane Curves.

Three hours weekly. Professor HULBURT.

Conference.

Two hours weekly.

5. Elementary Theory of Probability.

Two hours weekly, first half-year.

Including the Theory of Least Squares, the derivation of empirical formulae, and the application of mathematical methods to statistics.

In connection with the three hours' class-room instruction, the instructor in certain courses meets his students weekly in a two-hour session for the purpose of supplementary explanation and application of the principles taught in the class-room. This is that part of the courses designated as "Conference." It is not intended thus to increase the amount of work required of the student, but rather to aid him in the understanding and preparation of the work of the class.

MILITARY SCIENCE AND TACTICS

THE RESERVE OFFICERS' TRAINING CORPS UNIT

In 1916 the War Department established an Infantry Unit of the Reserve Officers' Training Corps, Senior Division, at this University. During the four years in which the unit has been in existence it has steadily increased in importance and efficiency, and the military courses now given rank equally with other courses.

The purpose of the R. O. T. C. is to provide a reservoir of trained men to serve as officers in the event of war. While its purpose is thus to train officers, the student who successfully completes the course and does not elect to become a Reserve Officer, will receive certain military exemptions should universal military service be adopted. Students enrolled in the R. O. T. C. are excused from physical training. The far-sighted student should consider these factors before deciding not to take the R. O. T. C. course.

During the first year of the student's service in the R. O. T. C. his time is devoted to the drill field, where he is given a thorough course in matters pertaining to the practical training of an infantry soldier. Thereafter the course begins to train the student to be an officer; a minimum of time is devoted to drill and a maximum to the training of the student's mind.

The R. O. T. C. undergraduate student body is organized as an Infantry Battalion, which drills as such at least one day a month. The officers and non-commissioned officers of the battalion are appointed from among the students.

The physical training of students of the R. O. T. C. is handled by the Gymnasium Department, co-operating with the Department of Military Science.

The course is progressive, beginning with instruction in the duties of a soldier for the Freshman class, military topography for the Sophomore class, military field engineering for the Junior class, and military and international law

and small problems for Infantry for the Senior class. Throughout the course the student also progresses in the handling of troops, beginning with instruction in squad leadership and advancing to platoon, company, and regiment; in the Senior year he is ready to undertake the War Game, in which his ability to handle all arms of the service on the large relief maps is demonstrated.

After the Freshman has completed his year of thorough practical instruction on the drill field, he is ready to lay aside his rifle and learn to write orders, messages, and reports, and to make and read maps. Having mastered the intricacies of topography in his Sophomore year, the student applies this knowledge to his work during the next two years, beginning in his Junior year with the construction of terrain problems in sand. The Junior is then expected to construct certain models of the most common engineering devices which an infantry officer would be likely to be called upon to construct in mobilization camps or in the field. The Senior receives a course of lectures on the Articles of War, applies the knowledge gained to actual practice in courts-martial procedure; he assumes the duties of a company commander and learns the administration of an infantry company and participates in small battle problems which are conducted on a relief map, thus bringing into play all factors except danger that confront an officer during an engagement.

The discipline of the unit and the method of oral classroom recitation in military subjects follow the system of the United States Military Academy at West Point as closely as possible.

A student who completes the course satisfactorily receives a credit of seventeen points towards the degree of Bachelor of Arts, distributed as follows:

Freshman year	3 points
Sophomore year	4 points
Junior year	5 points
Senior year	5 points

The following is an outline of the course for each year:

MILITARY SCIENCE 1.

Oral recitation, one hour each week, on a military text (general in character); West Point system of classroom recitation.

Lecture, one hour each alternate week, fundamentals of military science. Written quiz on last week's lecture, one hour each alternate week.

Practical instruction in infantry Drill; Subcaliber rifle practice; Ceremonies; Guard Duty; Advance and Rear Guards; Outposts; Patrols; Small Problems for Infantry (on B. H. Relief Maps); Bayonet Instruction and Combat; Hand Grenade Instruction; four hours weekly.

Credit: Three points.

MILITARY SCIENCE 2.

Written recitation, one hour each week on a military text. (Advanced.)

Lecture, one hour each alternate week, fundamentals of military science, advanced. Written quiz on last week's lecture, one hour each alternate week.

Practical instruction in Military Topography; Military English; Small Problems for Infantry (on B. H. Relief Maps); Infantry Drill, two hours per month. Four hours weekly.

Credit: Four points.

MILITARY SCIENCE 3.

Written recitation, one hour each week on a military text, principally Military Field Engineering.

Lecture, one hour each week: Military Field Engineering; Strategy; Minor Tactics.

Practical instruction in construction of Military Field Engineering models; Design of Military Structures; Lessons in Minor Tactics (on B. H. Relief Maps); Sand Table instruction; Isometric drawings of Military Structures. Infantry Drill, two hours per month. Four hours weekly.

Credit: Five points.

MILITARY SCIENCE 4.

Written recitation, one hour each week on a military text (principally Military Law).

Lecture, one hour each week: Military Law; International Law; Courts-Martial procedure; Organization of the Army; Company Administration.

Practical instruction in Courts-Martial procedure; The administration of an Infantry company; Company papers; Supplies and requisitions. The War Game (on B. H. Relief Maps). Infantry Drill two hours per month. Four hours weekly.

Credit: Five points.

General remarks: All students receive a course of lectures on the Military History and Policy of the United States. The student on entering the R. O. T. C. is required to continue therein for a period of two years, at which time he has the option of discontinuing his service in the unit, or of continuing for two years more.

The Government furnishes the student his full uniform and all his equipment. The student is entitled to attend two or more summer training camps at Government expense, including transportation to and from camp. Students taking the two years' advanced course are entitled to forty cents per day, paid by the Government. Graduates of the R. O. T. C. who are qualified are entitled to commissions in the United States Reserve Corps as Second Lieutenants of Reserves.

Thus, a student in the R. O. T. C. taking the course in Military Science not only receives collegiate credit for the course taken, but receives from the Government the following assistance (based on his four years' course):

U. S. property to the value of	$211.33
Cash	236.00
Value of subsistence at camps	54.00
Transportation to and from camps (average)	120.00
Total Government assistance	$621.33

To this the Government adds the following:

The privilege of buying articles of Government uniform at Government prices.

The privilege of special technical training in various fields without tuition charge.

An opportunity to obtain a temporary commission as Second Lieutenant of the Regular Army for a period of six months; service with a regular regiment; and pay during such period to the amount of $100.00 per month.

ORIENTAL SEMINARY

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 archæology desirous of drawing directly from the original sources; (*d*) persons looking for instruction in the living Oriental languages (as modern Arabic, Turkish, Persian, modern Hebrew, Amharic, Malay, Tagalog, etc.) for practical purposes.

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 Philippine dialects, 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. The bulk of the Oriental libraries is kept in a section of the General Library, with a special entrance opposite the door to the Oriental Seminary. On the same floor are some archæological and antiquarian callections, 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.

The following courses are offered for the academic year 1920-21:

Oriental History, Literature, and Archæology

1. History of the Ancient East (Egypt, Babylonia, Assyria, Persia, Israel, and Judah). Dr. BLAKE. *Monday,* 5 *p. m.*

2. Biblical Archæology (Egypt, Babylonia, Palestine). Dr. ALBRIGHT. *Tuesday,* 5 *p. m.*

3. The Religions of Western Asia. Dr. ALBRIGHT. *Thursday,* 4 *p. m.*

4. Modern Palestine. Dr. ALBRIGHT. *Thursday,* 5 *p. m.*

5. The Literature of the Old Testament (with special reference to date and authorship). Dr. DOUGHERTY. *Tuesday,* 4 *p. m.*

6. Interpretation of Selected Chapters of the Authorized Version. Professor HAUPT. *Wednesday,* 5 *p. m.*

Biblical Philology

7. Elementary Hebrew. Associate Professor EMBER. *Three hours weekly.*

8. Hebrew: Second Year's Course. Associate Professor EMBER. *Two (or three) hours weekly.*

9. Comparative Hebrew Grammar. Dr. BLAKE. *Monday,* 4 *p. m.*

10. Old Testament Seminary (Critical Interpretation of the Book of Job). Professor HAUPT. *Wednesday,* 3-5 *p. m.*

11. Cursory Reading of the Hebrew Bible. Dr. BLAKE. *Monday,* 3 *p. m.*

12. Post-Biblical Hebrew (Selections from the Mishnah and the Talmud). Dr. ROSENAU. *Monday,* 9-11 *a. m.*

13. Rabbinical Commentaries. Dr. ROSENAU. *Monday,* 11 *a. m.*

14. Biblical Aramaic Grammar and Interpretation of the Aramaic Portions of the Book of Ezra. Dr. BLAKE. *Thursday,* 3 *p. m.*

Arabic

15. Elementary Arabic. Associate Professor EMBER. *Monday and Wednesday,* 12 *m.*

16. Arabic Historians. Associate Professor EMBER. *Tuesday,* 12 *m.*

Assyriology

17. Comparative Assyrian Grammar. Professor HAUPT. *Friday,* 4-6 *p. m.*

18. Interpretation of Selected Cuneiform Texts. Dr. ALBRIGHT. *Tuesday and Friday,* 11 *a. m.*

Egyptology

19. Elementary Egyptian. Associate Professor EMBER. *Thursday,* 12 *m.*

20. Hieratic Texts. Associate Professor EMBER. *Friday,* 12 *m.*

21. Pyramid Texts. Associate Professor EMBER. *Thursday,* 11 *a. m.*

Malayo-Polynesian Philology

22. Tagalog for Beginners. Dr. BLAKE. *Tuesday,* 3 *p. m.*

Journal Meeting

23. Journal Meeting. Professor HAUPT. *Friday,* 3 *p. m.*

PHILOSOPHY

Students having philosophy for their principal subject may either carry on most of their work within the traditional group of philosophical disciplines, or form new groupings of studies traversing the usual departmental lines. It is considered important by this department that prospective teachers of philosophy should, in any case, have a broad general training either in the humanities or in the natural or social sciences, and should be able definitely and fruitfully to correlate their philosophical studies and teaching with at least one other province of inquiry. Candidates for degrees in philosophy are therefore advised to decide early in their residence in which of the following groups they will chiefly work:

I. General systematic philosophy.

II. Logic and scientific methodology.

III. Ethics.

IV. The history of philosophical systems and of philosophical ideas in literature and in the sciences.

Candidates who elect I will have most of their work for their principal subject in philosophy, while taking the usual two subordinates in other subjects. Those who specialize in II, III or IV may be required to pursue studies in the other philosophical subjects, but may also take an equal amount of suitably correlated work in other departments, which will be credited towards the requirements in the principal subject. Those who elect II, for example, should take courses in psychology, in mathematics, and in at least one of the experimental physical sciences and in its history. Those who specialize in III should do some work in political science and economics; those who specialize in IV should carry on some studies in the history of literature and the history of scientific hypotheses.

GRADUATE COURSES

1. Individual Work.

To be separately arranged for each student. The work will consist of required reading, methodical analysis of problems, the presentation of a connected series of papers, and frequent conferences with the instructor. Professor LOVEJOY.

2. Pragmatism and Related Doctrines (Seminary).

Two hours weekly through the year. Professor LOVEJOY.

3. Schopenhauer and Nietzsche.

Especial attention will be given to the historic background of these philosophers, to their relations to Romanticism, to the place of biological theories in their doctrines, and to their influence upon later Nineteenth Century thought and art.

Two hours weekly through the year. Professor LOVEJOY.

4. The Mind-Body Problem.

History and present status of the problems relating to the psychophysical distinction and to the mode of causation of bodily action in man.

One hour weekly through the year. Professor LOVEJOY.

UNDERGRADUATE COURSES

1. (*a*) Elementary Logic: The tests of consistency, the requirements of proof, the theory of legal evidence, and the methods of discovery and verification in natural science.

Three hours weekly, first half-year. Dr. SLONIMSKY and Mr. HAMMOND.

(*b*) Ethics.

Three hours weekly, second half-year. Dr. SLONIMSKY.

2. History of Philosophy.

(*a*) Ancient and Medieval Philosophy.

Three hours weekly, first half-year. Dr. SLONIMSKY.

(*b*) Modern Philosophy.

Three hours weekly, second half-year. Mr. HAMMOND.

3. Introduction to Philosophy.

The subject-matter and methods of philosophical inquiry; relation of philosophy to other sciences and to the problems of life; preliminary survey of the principal issues and types of doctrine in metaphysics and the theory of knowledge, with especial reference to contemporary tendencies.

Three hours weekly through the year. **Mr. HAMMOND.**

PHYSICAL TRAINING AND ATHLETICS

Physical Training, Athletics, and Personal Hygiene are all included under the Gymnasium Department of this University and the work is on a parity with that done in other college courses. The course in physical training is required of all undergraduate students during the first two years of residence, though no academic credit is given.

The authorities of the University, recognizing the importance of adequate supervision of the physical condition and welfare of students, have placed a Doctor of Medicine in charge as Director and the students are brought under suitable and expert advice.

It is obligatory for each entering undergraduate student to present himself to the Director of this department and undergo a careful physical and medical examination. Unless otherwise advised or incapacitated for any reason, he must take the physical training course during his first two years.

The work in physical training is conducted by a competent instructor, and a Director of Athletics has general charge of the athletic teams under the authority of the Gymnasium Department and the General Athletic Association.

The Physical Training course itself includes physical exercise, Personal Hygiene, and Athletics, to all of which are devoted three periods a week during the academic year. Individuals regularly exercising on official team squads are credited with an equivalent amount of work on account of physical training.

The Gymnasium and Cage, which for so many years were the centre of athletic activities, were burned during 1919, together with other buildings in the old group in the city, and at present there are no permanent structures at Homewood for such use, though temporary provision is made to take care of the work of this department until the permanent Gymnasium group, consisting of a Gymnasium, Natatorium and Cage, is established.

Hopkins Field is the athletic exhibition ground at Homewood and is used for all the scheduled games and practice. In its construction, attention was paid to the problem of drainage and this has made it an ideal playground. It is enclosed by one of the best quarter-mile cinder tracks in the country and an excellent 220-yard straightaway. Though not permanently established, adequate dressing room facilities are provided with lockers, showers and laboratories. Two stands of ferro-concrete and accommodating about 1500 spectators each have been erected.

Immediately adjoining Hopkins Field are well-equipped tennis courts. A practice ground is just south of Hopkins Field, where the different sports are engaged in, while other areas are in preparation to provide for the physical activities of the students. Additional tennis courts adjoining the engineering buildings have recently been provided and these help to supply the recreative needs of the students.

In order to prevent ill-advised participation in outdoor sports and to guard against over-indulgence in training, athletic teams of the University are under the control of the Director; and no student is allowed to become a member of the team unless his physical condition is satisfactory and his strength up to the required standard; and no student is allowed to be a member of or a candidate for an athletic team who is seriously deficient in his studies.

Should a student elect Military Science, he is required to follow the work prescribed by the War Department of the United States Government. This does not preclude his taking an active part in athletics, but on the contrary he should supplement his military training by other work in the line of physical training or sports.

PHYSICS

The Physical Laboratory offers facilities in the form of apparatus, libraries, and machine shops to students who wish to pursue experimental investigations in any field of Physics. If the results of these are to be offered as dissertations for the degree of Doctor of Philosophy, the work must be done under the general direction of the Director of the Laboratory, or of one of the other professors. For students carrying on experimental researches the laboratory is open daily, except Saturday, from 9 a. m. until 5 p. m., and on Saturday from 9 a. m. until 1 p. m.

Regular courses of instruction in Physics are given in the form of lectures and laboratory exercises. They may be classed as Advanced and Elementary. The former are designed for graduate students; the latter, primarily, for undergraduates.

ADVANCED COURSES

Seminary and Journal Meetings

All advanced students meet with the instructors twice each week—once in the Physical Seminary, once for the discussion of the current Physical Journals.

During the year 1920-21 the questions to be considered in the Seminary will refer to the History of Mechanics.

Lectures

1. General Physics.

Four hours weekly through the year. Professor AMES.

This is a series of lectures in Mathematical Physics continuing for three years and including the subjects of Theoretical Mechanics, Elasticity, Hydrodynamics, Sound, Thermodynamics, Heat Conduction, Electricity and Magnetism, and Light. During the year 1920-1921 the lectures will be on Theoretical Mechanics, including Hydrodynamics, with a brief course on the Theory of Relativity.

2. Selected Problems in Advanced Physical Optics.

Three hours weekly through the year. Professor WOOD.

The lectures are based upon Wood's "Physical Optics," and, in addition, refer to current work in the laboratory.

3. X-Rays and Atomic Theories.

Two hours weekly, first half-year. Associate Professor PFUND.

Laboratory Courses

Special exercises in Physics in preparation for independent research, under the direction of Professors AMES and WOOD and Associate Professor PFUND.

For students following these courses the laboratory is open daily, except Saturdays, from 9 a. m. to 5 p. m.

ELEMENTARY COURSES

1. Elements of Physics.

Professor BLISS (first half-year); Associate Professor PFUND (second half-year); Dr. E. O. HULBURT; Mr. WENSEL; Mr. BROMBACHER.

This course in General Physics comprises Mechanics, Heat, Electricity and Magnetism, Sound, and Light. Satisfactory completion of the course in Mathematics 1, or its equivalent, is a pre-requisite to admission.

2. Theoretical Mechanics and Thermodynamics.

Three hours weekly through the year. Professor AMES.

The lecture course will be in the mathematical theory of the subjects named, and a satisfactory completion of the courses in Mathematics 2 and Physics 1 will be assumed.

3. (*a*) Physical Optics.

Three hours weekly, first half-year. Associate Professor PFUND.

(*b*) Electricity and Magnetism.

Three hours weekly, second half-year. Professor BLISS.

The course will be in the mathematical theory of the subjects named, accompanied by suitable laboratory experiments.

The completion of Mathematics 2 and Physics 1, or their equivalent, is assumed.

4. Laboratory Work and Practical Exercises for students in Course 1.

Six hours weekly through the year. Professor BLISS (first half-year); Associate Professor PFUND (second half-year), and instructors.

5. Laboratory Work in connection with Physics 2.

Six hours weekly through the year. Associate Professor PFUND (first half-year); Professor BLISS (second half-year).

The laboratory work in connection with the course will be in precise measurements in Mechanics and in the determination of high temperatures. The work in Mechanics includes methods of exact measurement of various mechanical quantities and natural constants; that in Pyrometry is devoted chiefly to methods of measuring temperatures, including the use of thermocouples, resistance thermometers, and pyrometers, but a few other exercises are included illustrating the accompanying lecture course.

6. (*a*) Laboratory Work in Optics.

Six hours weekly, first half-year. Associate Professor PFUND.

The students are given a thorough working knowledge of experiments dealing with fundamental principles, as well as of experiments involving the use of modern types of optical instruments, such as the plane and concave grating, Michelson and Fabry and Perot interferometers, polarimeters, etc.

(*b*) Laboratory Work and Exercises in Electricity and Magnetism to accompany Physics 3 (*b*).

Six hours weekly, second half-year. Professor BLISS.

Special attention is given to modern methods and instruments for the accurate measurement of the fundamental quantities.

POLITICAL ECONOMY

GRADUATE COURSES

The graduate instruction in Political Economy is designed primarily to meet the needs of advanced students preparing for a professional career in economic science. The courses 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 research in economic study and investigation. Formal graduate instruction is offered in Economic Theory and in Applied Economics by parallel courses of lectures throughout the year. The particular topics treated vary from year to year. In 1919-20 Professor Hollander lectured two hours weekly on the development of economic opinion from Adam Smith to John Stuart Mill and two hours weekly on the theory of international trade.

Professor Barnett lectured the first half-year on corporation finance and during the second half-year on the theory of credit.

The courses offered for 1920-21 are as follows:

1. The Economic Seminary.

Two hours weekly through the year. Professors HOLLANDER and BARNETT.

The work of the year will be the study of representative forms of industrial development in the United States, and the analysis of significant activities of American labor organizations.

2. The Development of Economic Opinion.

Two hours weekly through the year. Professor HOLLANDER.

Continuing the analysis of previous years, a critical survey will be made of the doctrinal development and present state of fundamental concepts of economic science. The topical or cross-sectional method of treatment will be adopted and the theories of wages, interest, profits, rent, and value will be successively examined.

3. Theory and Practice of Taxation.

Two hours weekly through the year. Professor HOLLANDER.

During the first half-year the history of taxation will be traced. During the second half-year recent fiscal experiments in the United States will be examined.

4. American Trade Unionism.

One hour weekly through the year. Professor BARNETT.

During the first half-year attention will be given to the history of trade unionism and to the study of the position of the trade union in modern economic organization; during the second half-year a detailed study will be made of the structure and functions of American trade unions.

Special courses of lectures will be given by non-resident lecturers upon such practical economic problems as charities and social reforms, railway transportation, industrial organization.

A reading class is organized yearly by the more advanced students of the department for co-operative study of economic texts and for critical discussion of current economic literature.

UNDERGRADUATE COURSES

1. Elements of Economics.

Particular attention is given to the theory of distribution and its application to leading economic problems.

Three hours weekly through the year. Dr. WEYFORTH and Dr. MITCHELL.

2. (*a*) Statistical Methods.

After a preliminary study of the value and place of statistics as an instrument of investigation, attention is directed to the chief methods used in statistical inquiry.

Three hours weekly, first half-year. Professor BARNETT.

(*b*) Money and Banking.

The principles of monetary science are taught with reference to practical conditions in modern systems of currency, banking, and credit.

Three hours weekly, second half-year. Dr. WEYFORTH.

3. (*a*) Labor Legislation.

The theory and practice of labor legislation are studied, with attention given to legal, economic and social considerations.

Three hours weekly, first half-year. Dr. MITCHELL.

(*b*) Investments.

Includes historical and analytical description of the more important forms of investments and theories of valuation and amortization.

Three hours weekly, second half-year. Professor BARNETT.

4. (*a*) Labor Problems.

The problems growing out of modern industrial employment will be studied.

Three hours weekly, first half-year. Dr. MITCHELL.

(*b*) Corporation Finance.

The theory and practice of corporation finance are considered, with particular reference to the problems presented in the United States.

Three hours weekly, second half-year. Professor BARNETT.

[Course 4 will not be given in 1920-1921.]

5. (*a*) Foreign Trade and Exchange.

The economic principles of international commerce, the methods of conducting foreign trade, and the theory and practice of foreign exchange will be studied.

Three hours weekly, first half-year. Dr. WEYFORTH.

(*b*) Economic History of the United States.

This course deals with the economic development of the country and with the way in which the economic motive has influenced our history.

Three hours weekly, second half-year. Dr. MITCHELL.

NOTE—Undergraduate Course 2 is open only to such students as have completed or are pursuing Course 1; Courses 3, 4, and 5 only to students who have completed 1 and 2.

POLITICAL SCIENCE

GRADUATE COURSES

The graduate work in political science has for its aim the preparation of advanced students for professional and original work in the fields of constitutional law, international law and diplomacy, and political philosophy. It also seeks to supply the necessary training for those desiring to enter the higher branches of the public service, and to furnish a broad and philosophical equipment to those who expect later to pursue the study and practice of the law.

Seminary

A weekly seminary is conducted, at which reports upon special subjects are read by the students and discussed.

Lectures

The lectures are so arranged as to give three or more years of continuous instruction, covering the following subjects: the theory of the state (being a general introduction to the study of constitutional and international law), foreign constitutional law, United States constitutional law, international law and diplomacy, the legal aspects of economic and industrial problems, the history of political theories and of political literature, and historical jurisprudence.

For the year 1920-21 the following courses are offered:

1. Principles of Political Philosophy.

Two hours weekly, first half-year. Professor WILLOUGHBY.

This course will deal with the nature of the State as determined by its ends or purpose. This discussion of the ethical basis and legitimate sphere of political authority will supplement the course, given in 1919-1920, under the title "Introduction to the Study of Public Law," which dealt with Government and the State from the juristic point of view.

2. The Legal Aspects of Industrial and Commercial Problems.

Two hours weekly, second half-year. Professor WILLOUGHBY.

The Law, common and statutory, relating to subjects such as labor combinations, monopolies, railway regulation, workmen's insurance, employers' liability, factory inspection, minimum wage, will be discussed. Especial consideration will be given to the police power, due process of law, and other constitutional questions.

3. The Law of Public Administrative Officers.

Two hours weekly, first half-year. President GOODNOW.

The case system of instruction will be employed.

4. The Law of Municipal Government and of Municipal Corporations.

Two hours weekly, second half-year. President GOODNOW.

The case system of instruction will be employed.

5. The Organization, Procedure, and Work of Congress.

One hour weekly through the year. Mr. W. F. WILLOUGHBY.

A detailed and critical discussion of the organization, procedure, and work of the legislative branch of the National Government of the United States. Comparisons will be made of the organization and procedure of the legislatures of the individual States of the Union and of the more important governments of Europe. Attention will also be given to current proceedings of Congress.

UNDERGRADUATE COURSES

1. The Government and Administration of Modern States.

This course will deal with the problem of government and the manner in which it has been met by the United States and other leading countries of the world. Especial emphasis will be laid upon the practical operations of government.

Two hours weekly through the year. Mr. W. F. WILLOUGHBY and Mr. THACH.

2. American Diplomacy.

A survey of American foreign policy from the birth of the nation to the present time.

Three hours weekly, first half-year. Professor LATANÉ and Mr. THACH.

3. Elements of International Law.

This course will deal with the attributes of sovereign states, their rights and duties as members of the family of nations, and the adjustment of international controversies.

Three hours weekly, second half-year. Professor LATANÉ and Mr. THACH.

PSYCHOLOGY

The direction of graduate work in Psychology is determined by the purposes and qualifications of the student. Research may be undertaken by the adequately prepared student along one of a large number of lines, not only those lying within the restricted fields of human and animal psychology, but also others in which essential coöperation of specialists in other subjects may be obtained. Two laboratories are provided, one in the Phipps Psychiatric Clinic of the Johns Hopkins Hospital, the other in Gilman Hall at Homewood.

Those expecting to specialize in the field of Pathological Psychology are urged either to secure the medical degree before taking their graduate work in psychology, or else to continue their work in medicine after having taken the Ph. D. in psychology. Those who have received their medical degree in the Johns Hopkins University and who desire to become candidates for the Ph. D. in psychology, may offer the work done in the Medical School in Anatomy and Physiology as first and second subordinates.

Courses offered by Professor Watson are conducted in the Phipps Psychiatric Clinic. Courses offered by Professor Dunlap and Associate Professor Johnson are conducted at Homewood.

For the year 1920-21 the following courses are offered:

6. Lectures and experiments in Animal Psychology. Professor WATSON.

Laboratory course, two hours a week, through the year; hours to be arranged.

10. Human Behavior. Professor WATSON.

Lecture course, two hours a week through the year; hours to be arranged.

12. Experimental methods in Psychology. Professor DUNLAP.

This course is intended for students taking psychology as a subordinate subject, and needing training in the methods and technique of psychological experimentation. It is also advised for those students whose principal subject is psychology, but whose preparation for research is inadequate.

Six hours of laboratory work and one conference hour through the year.

18. The Psychology of Childhood. Associate Professor JOHNSON.

A study of the activities and development of normal and abnormal children, with emphasis on the emotional life and on guidance.

Through the year; hours to be arranged.

21. Experimental Psychology: Research Course. Professor WATSON.

Individual research on selected problems. This, or either course 22 or 24, constitutes the larger part of the work of students whose principal subject is psychology. Other students with adequate preparation may be admitted, but not less than nine hours a week may be elected.

22. Experimental Psychology: Research Course. Professor DUNLAP.

Individual research on problems selected from the general field of psychology. This or course 24 will be elected by those students whose principal work is at Homewood.

24. Educational Psychology: Research Course. Associate Professor JOHNSON.

Individual research on problems of mental development, training and other aspects of the learning process.

26. Psychological Journal Club.

Fortnightly through the year.

27. Seminary in Psychology. Professor DUNLAP and Associate Professor JOHNSON.

The discussion for the year will be on problems of the methods and applications of psychology.

36. The Psychology of Music. Mr. ORTMANN.

A study of the psychological foundations of musical production and appreciation, and of the methods of measuring musical capacity.

Through the year; hours to be arranged.

UNDERGRADUATE COURSES

1. Introduction to General Psychology.

A course designed to familiarize the student with the principal phenomena and the typical problems of mental life. The satisfactory completion of this course is prerequisite to admission to any of the other courses in Psychology.

Three hours weekly through the year. Professor DUNLAP.

2. Laboratory Course.

Practice in the observation of typical phenomena, with training in the methods and technique of psychological research.

One conference hour and two laboratory periods weekly, through the year. Professor DUNLAP and Associate Professor JOHNSON.

3. Social Psychology.

A survey of the psychological factors involved in social life, and of the psychological methods of modifying social conditions.

Three hours weekly through the year. Professor DUNLAP.

4. Mental Measurements.

A study of the development and significance of mental tests, with training in the principles and technique of their application. Full consideration is given to the statistical treatment of test scores, and to graphic and other methods of presentation. Emphasis is placed on the evaluation of tests and methods rather than on the routine of application.

One conference hour and two laboratory periods weekly through the year. Associate Professor JOHNSON.

ROMANCE LANGUAGES

The Department of Romance Languages, founded by the late Professor A. Marshall Elliott, aims to give advanced instruction in the three principal languages of this group.

In order that the demands of all students may be met, the work of the Department varies from year to year. In 1920-21 particular emphasis will be laid upon the study of French; seminaries will be conducted in both the literature and the language, and there will be supplementary lecture courses and practical exercises. In addition to the work in French, advanced courses in Spanish and Italian will be given, and provision made for any who may desire to specialize in those languages. The chief aim of the instruction is to teach students to work for themselves; for those, however, who do not feel sufficiently equipped to enter the seminaries with profit, the undergraduate courses in the College of Arts and Sciences and the College Courses for Teachers are recommended. All instructors and students form pleasant personal relations in the bi-monthly meetings of the Romance Journal Club.

The library facilities of the University, recently enlarged by the addition of the A. Marshall Elliott Library, and by substantial gifts in the domain of French literature, are supplemented by the numerous Romance works in the Peabody and Enoch Pratt Libraries, and by the readily accessible material in the Library of Congress.

ADVANCED COURSES

French

Seminary: Corneille.

Studies in the French Classical Drama. Reports by instructor and students.

Two hours weekly, October to February. Professor LANCASTER.

Seminary: Chateaubriand.

Reports by instructor and students.

Two hours weekly, February to June. Professor CHINARD.

The Sixteenth Century.

Lectures on the leading authors of this period and readings from their works. Professor LANCASTER.

Weekly through the year.

The Realistic Novel.

Weekly through the year. Professor CHINARD.

Explication de textes: les Parnassiens.

Weekly through the year. Professor CHINARD.

Nineteenth Century Drama.

Weekly through the year. Professor LANCASTER.

Seminary: Old French Word Studies: The Glosses of Rashi.

Two hours fortnightly, through the year. Associate Professor BLONDHEIM.

Old French Readings.

Weekly through the year. Associate Professor BLONDHEIM.

Advanced Old French Readings.

Alternates annually with the preceding course.

Weekly through the year. Associate Professor BLONDHEIM.

Old French Historical Grammar.

Weekly through the year. Associate Professor BLONDHEIM.

Italian *

Dante.

Weekly through the year. Dr. GRUENBAUM.

Italian Classics.

Interpretation of selected texts.

Weekly through the year. Dr. GRUENBAUM.

Italian Historical Grammar.

Weekly through the year. Dr. GRUENBAUM.

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* Dr. Gruenbaum's courses in Italian and Spanish will be given in alternate years, the Spanish courses in 1920-21.

Spanish *

Spanish Historical Grammar.

Two hours weekly through the year. Dr. GRUENBAUM.

Readings in Old Spanish Literature.

Weekly through the year. **Dr. GRUENBAUM.**

Provençal

Old Provençal: Readings and Historical Grammar.

Weekly, second half-year. Associate Professor BLONDHEIM.

Vulgar Latin

Introduction to Vulgar Latin.

Weekly, first half-year. Associate Professor BLONDHEIM.

UNDERGRADUATE COURSES

French

French Elements.

Grammar, Reading, Composition.

Four hours weekly through the year. Mr. MERRILL.

French 1.

Nineteenth Century Prose Writers. Reading and Composition. (Special sections, formed after the first two months, will be conducted entirely in French.)

Four hours weekly through the year. Professor LANCASTER, Associate Professor BLONDHEIM and Mr. RIDDLE.

French 2.

French Literature of the last three centuries. A survey course conducted in French. Lectures, reading, reports.

Three hours weekly through the year. Professor CHINARD.

This course is open to students who have completed French 1, or who have offered for matriculation three units of French.

French 3.

French Literature since 1870. A course conducted in French. Lectures, reading, reports.

Three hours weekly through the year. Professor LANCASTER.

This course is open to students who have completed French 2, or its equivalent.

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* Graduate courses in Modern Spanish Literature will be announced later.

French 4.

Advanced Grammar and Composition.

Weekly through the year. Professor CHINARD.

Italian

Italian Elements.

Phelps, *Italian Grammar;* Wilkins and Altrocchi, *Italian Short Stories;* Collodi, *Le Avventure di Pinocchio.*

Four hours weekly through the year. Dr. GRUENBAUM.

Italian 1.

Selections from classical authors. Italian composition. History of Italian literature.

Three hours weekly through the year. Dr. GRUENBAUM.

Spanish

Spanish Elements.

Grammar, Reading, Composition.

Four hours weekly through the year. Mr. CABELLO.

This course is offered to students in the Department of Engineering as an alternative to French Elements.

Spanish 1.

Modern Authors. Reading and Composition.

Four hours weekly through the year. Mr. CABELLO.

Spanish 2.

Contemporary Novel and Drama. A course conducted in Spanish.

Three hours weekly through the year.

Spanish 3.

History of Spanish Literature: The Golden Age.

Three hours weekly through the year. Mr. CABELLO.

SANSKRIT AND COMPARATIVE PHILOLOGY

Courses of instruction, directed by Professor BLOOMFIELD, with the assistance of an Instructor or Fellow in Sanskrit, are provided in the Indo-Iranian languages (Vedic and Classical Sanskrit, Pāli and Prākrit, Avestan 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 recent sessions several courses in Lithuanian, one of the Balto-Slavic languages, were given, and for some years Dr. Edgerton, now Professor of Sanskrit in the University of Pennsylvania, conducted courses in Russian.

These courses 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 Indic Philology, or Comparative Philology; they also meet the needs of students of languages or humanities in general, who wish to obtain a broader linguistic or historical basis for special studies in other departments of philology.

The advanced work aims to meet the wants of those who wish to make Indic Philology or Comparative Philology their main study. The work centers in the Sanskrit Seminary, and not infrequently involves the use of Hindu manuscripts. The Veda, Classical Sanskrit, and Pāli-Prākrit (the latter in relation particularly to the important religious literatures of the Buddhists and the Jains) are treated successively, so as to furnish a rather intimate acquaintance with the main aspects of Hindu Philology.

A prolonged course in Sanskrit, involving two lectures a week during two years and attendance in the Sanskrit 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 to 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. This minimum of Sanskrit affords not only a stable basis for the scientific study of any kind of language, but also for the study of Comparative Literature which is growing more and more dependent upon the ancient treasures of Hindu Literature.

A synopsis of the courses offered during past years may be presented under the following heads:

I. Courses in the general principles of comparative philology or linguistic science, and on special chapters thereof; lectures on ethnology and the history of religions.

II. Courses in the general comparative grammar of the Indo-European languages; comparative grammar of Sanskrit and Avestan; comparative study of Indo-European accentuation; 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 Upanishads. The law books of Manu and Yājñavalkya; the Dramas Çakuntalā and Mṛchakaṭikā, and introduction into Prākrit; Prākrit prose tales; Pañcatantra, Hitopadeça, Kathāsaritsāgara, Pariçiṣṭaparvan, 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; Russian language and literature.

The following courses, in charge of Professor BLOOMFIELD, will be given during the session of 1920-21:

A. *Linguistic Science and Comparative Grammar of the Indo-European Languages.*

1. The elements of Linguistic Science, with an account of the Ethnology and Religions of the Indo-European peoples. *Weekly, thru the year.*

2. Comparative Grammar of the more familiar Indo-European languages (Greek, Latin, Teutonic, and Sanskrit):

The history of the consonants with a practical introduction to the phonetics of the consonants in general. *Weekly, thru the year.*

B. *Indo-Iranian Philology.*

3. Vedic Seminary: The philosophical materials of the Rig-Veda in relation to the Upanishads. *Weekly, thru the year.*

4. The elements of Vedic Philology: Vedic grammar, metres, and interpretation of selected hymns of the Rig-Veda. *Weekly, second half-year.*

5. Beginner's course in Sanskrit: Grammar and interpretation of an easy text. *Twice weekly, thru the year.*

6. Advanced Sanskrit: Rapid reading of Hemacandra's Pariçiṣṭaparvan. *Weekly, thru the year.*

7. Introduction to the Prākrit language: Grammar and prose readings. *Weekly, thru the year.*

ZOOLOGY, BOTANY, AND PLANT PHYSIOLOGY

The location of the Zoological and Botanical Laboratories at Homewood, in close proximity to woods, ponds, and streams, furnishes greatly increased facilities for all kinds of biological work. These laboratories are located, for the present, in well-lighted rooms on the lower floors of Gilman Hall, and the Laboratory of Plant Physiology is nearby. Rooms and apparatus are available for research in animal and plant morphology and physiology. Unusual apparatus, such as may be necessary for special investigations, is provided as occasion demands. A number of outdoor basins, some with and some without covers, have been provided for the culture of aquatic organisms, while the open ponds of the Homewood grounds are convenient sources of supply. A collection of living plants, in the Conservatory and Botanical Garden and in the adjacent propagating grounds, is available for many lines of study. Carefully "fixed" and preserved alcoholic material of several hundred plant species is available for histological and developmental work. The herbaria of the Botanical Laboratory include the Schimper collection of European seed-plants, the Field Club collection and the Jones collection of local plants, the Fitzgerald collection of mosses, and smaller collections of fungi, of marine algae, and of New England and Jamaican plants.

It is planned that, before receiving the degree of Doctor of Philosophy in Zoology or Botany, each student shall have the opportunity to study marine and terrestrial life in some tropical region.

The library in the Biological Laboratory is supplemented by the main library of the University and other libraries in the City, including the excellent botanical library of John Donnell Smith, whose courtesy has always made his library and herbarium available for advanced students.

The Laboratory of Plant Physiology, located alongside the Botanical Garden and adjacent to the Conservatory, is well

equipped for researches on the more fundamental aspects of the subject. Several electrically heated and controlled ovens or incubators, a battery of small dark chambers furnishing seven different maintained temperatures between any two extremes, an electrically operated clock with devices for time signals and the automatic release of recorders in any room, electrically driven klinostats and rotating tables for equalizing environmental conditions or rendering them symmetrical, a germ-free culture chamber, a physiological and a photographic dark-room, three experiment rooms under glass, together with the usual apparatus employed in physiological experimentation, are available. The outfit is flexible and special arrangements will be made to suit special researches. A small working library is located in the building.

The Adam T. Bruce Fellowship is awarded to men capable of carrying on research in biology. Two of the graduate students may be appointed each year to occupy the University tables at the Marine Biological Laboratory at Woods Hole, Mass.

The laboratories are open from 9 a. m. to 5 p. m., and for necessary research in the evenings, but only by special arrangement.

ADVANCED COURSES

The Biological Journal Club.—The graduate students and the instructors in Zoology, Botany, and Plant Physiology form the Biological Journal Club, which meets weekly for the discussion of the recent literature in these fields.

Zoology

The advanced work in zoology is directed toward the development of investigators, and the student will receive such assistance and training toward that end as his individual needs seem to require. The set courses of the department are perhaps the less important part of that work. The courses in Zoology include: (1) Introductory and General

Courses; (2) The study of the structure, morphology, classification, and embryology of animals; (3) Study of the activities and functions of the developed organisms; (4) Study of the production of the structures and functions of organisms, in the history of the individual and in the history of the race. The first two lines of work are provided in the undergraduate courses, and in many cases graduate students will find it well to follow certain of these. The third and fourth lines are provided for in the Advanced Courses. Any of the lines of work may lead directly to research, and such research will be carried on under the immediate oversight of the member of the staff in whose special field the problem falls. The later year or years of the candidate for the doctorate should be devoted to investigation, with little interruption by set courses. The student presents before the members of the department at some time during his work a discussion of the subject with which his investigations deal, in the form of a number of lectures.

The advanced courses are elastic, subjects being dealt with that appear especially useful to the students taking part; different students may devote themselves primarily to diverse parts of the subject. In the latter part of each course, as a rule, some special subject or problem will be taken up by each student, leading directly to research.

Seminary. The instructors and graduate students meet once a week for the discussion of some of the fundamental problems of biology. Frequently some book of philosophical trend is read and discussed. In recent years the seminary has taken up Driesch's Science and Philosophy of the Organism; Lloyd Morgan's The Interpretation of Nature; v. Uexkuell's Umwelt und Innenwelt der Tiere; Bergson's Creative Evolution; McDougall's Body and Mind; and Radl's Geschichte der Biologischen Theorien. During 1919-20 certain theories of the relation of biology to human and social problems were examined.

General Genetics. Professor JENNINGS.

Three lectures weekly from the beginning of the session to February 1.

The course deals with the problems presented by the passage of generations: life cycles, age, death, and rejuvenescence; sex, its signification and determination; heredity and variation and their relation to different methods of reproduction; environmental action and selection in their relation to evolution.

General Physiology of Animals. Professor MAST.

Three lectures or conferences and two laboratory periods weekly through the year.

This course deals with the chemical and physical properties of protoplasm, with the relation between animals and their environment, and with some of the fundamental processes which occur in organisms (metabolism, growth, mechanics of movement).

Animal Behavior. Professor MAST.

Three lectures or conferences and two laboratory periods weekly through the year.

This course, which is really a continuation and a part of the preceding course, deals with responses to stimuli and behavior in animals, both from a purely mechanical and from a comparative physiological and psychological point of view.

These two courses will be given alternately, the course in Animal Behavior falling in the year 1919-1920. The work in both courses will be confined largely to the Invertebrates. Plants and the Vertebrates will be considered only in a general way, since they are fully dealt with in the courses offered in Botany, Plant Physiology, Psychology, and Human Physiology. The more advanced students are encouraged to take up problems for original investigation in connection with, or in place of, their regular laboratory work. Under certain conditions the lectures may be taken without laboratory work.

Investigations. Professors JENNINGS, ANDREWS, and MAST, and Associate Professor COWLES.

Hours as required.

Botany

1. Seminary.

The Botanical Seminary meets weekly from November 1 to May 1. Professor JOHNSON.

2. Lectures and Laboratory Work.

I. Reproduction and Phylogeny in Plants. Professor JOHNSON.

a. *Three lectures weekly through the year.* (Hour to be selected in October.)

b. *Laboratory work associated with the lectures, twice weekly through the year.* (Hours to be arranged for in October.)

c. *Definite problems in field work assigned for study in the autumn and spring.*

This course embraces a general survey of reproductive structures and processes in plants, from the simplest to the most highly organized. It aims to give a broad view of the trend of evolution in the vegetable kingdom and some understanding of the natural relationships of living plants, as indicated by their vegetative, and by their reproductive, structures. Familiarity is gained with the literature of the subject by the constant use of original descriptions and illustrations, in lecture room and laboratory. The seasonal development of our native plants and the environmental conditions under which they grow are studied in the field, as a means of broadening the knowledge gained by a more intimate study of the fewer types worked out in the laboratory. In alternate years the thallophytes and the vascular plants are discussed in more detail.

II. The Physiological Anatomy of Plants. Professor JOHNSON.

a. *Two lectures or conferences weekly from January* 1 *to May* 1.

b. *Laboratory work twice weekly from January* 1 *to May* 1. (Hours to be selected in October.)

This is an advanced course for those who have a general knowledge of the organography and anatomy of plants. The work includes at the start a study of the cell,—the cytoplast, the chromatophore, the nucleus and its division, the cell wall and other cell products. Later laboratory studies are made by members of the class of the chief types of cell complexes or tissues of the plant, with the modification of these in relation to their function under special conditions in the environment. Haberlandt's Physiological Plant Anatomy and Jeffrey's Anatomy of Woody Plants are made the basis of the work, but, in addition, lectures and demonstrations are given by the instructor and members of the class and frequent use is made of original monographs on plant anatomy.

III. The History of Botany. Professor JOHNSON.

Wednesday and Thursday, 5 p. m., from November 1 to February 1.

The following themes will be discused in alternate years: The Theory of Sex in Plants; The Cell Theory.

These courses present, in historical sequence, the development of our knowledge of the two aspects of botany mentioned, as an aid to a just appreciation of the problems and significance of modern research in those fields.

Plant Physiology

The work in Plant Physiology is planned to inculcate productive habits of thinking and of experimental analysis in regard to the various processes of plants and the conditions controlling them. It aims to fit students for purely scientific investigations, practical research, or the teaching of the subject. It is essentially advanced work, but no rigid system of prerequisites in academic courses has been established. Opportunity is furnished for three kinds of work, all of which are essential stages in the development of ability in research, of appreciation of physiological principles and of the application of the latter. (a) A year's course of lectures, conferences and prescribed laboratory experiments, the latter terminating in some practice with simple experimental problems and naturally leading directly to research, is planned to give a somewhat broad and general view of the entire subject of plant physiology as so far developed. (b) The more advanced physiological work embraces original research, with lectures, conferences, and practice in presentation, regarding various particular phases of the subject. The use of the literature rather than of lectures, as a source of knowledge, is encouraged, and instruction is mainly personal. (c) The application of physiological knowledge and methods to the problems of ecology, agriculture, and forestry receives cursory attention throughout all of the work, and is especially emphasized in a short course of lectures and conferences, along with which field and laboratory work may be undertaken. As soon as the student is adequately prepared he is encour-

aged to take up original research, in either pure or applied physiology, thus fulfilling the dissertation requirement for the doctor's degree.

I. General Review of Plant Physiology. Professor LIVINGSTON.

a. *Three lectures or conferences weekly through the year.*
b. *Six hours of laboratory work weekly through the year.*

Lectures and laboratory work on the chief plant processes. Palladin's Plant Physiology, English edition, is read, together with selected original articles. A good knowledge of physics and chemistry is highly desirable.

II. Problems in Plant Physiology. Professor LIVINGSTON.

a. *Two lectures or conferences weekly through the year.*
b. *Six hours of laboratory work weekly through the year.*

This course is planned to give perspective and to prepare the student for profitable research in either pure or applied physiology. Each student carries on experimentation and works up the literature of restricted phases of plant activity, reporting on both literature and experiments. A considerable knowledge of the principles and methods of physics and chemistry is prerequisite.

III. Applied Plant Physiology. Professor LIVINGSTON.

a. *Thirty-six lectures or conferences at hours to be arranged.*
b. *Field and laboratory work to be arranged.*

This course is not offered every year, and is not offered in the same year as Course IV. It is planned for those wishing to enter deeply into the field of applied plant physiology, in physiological ecology, agriculture, forestry, etc., and deals with physiological principles and methods for the study of environmental complexes that may occur in nature or in plant culture, and that may condition the activities of plants and plant associations. The effective environmental features of habitats and of climatic, soil, and other geographical areas, together with prominent physiological characteristics of representative plants, are considered, as far as possible, in a quantitative manner. A knowledge of the principles of meteorology and of climatology and some familiarity with plant taxonomy and the methods of agriculture and forestry are desirable. Open to those who have had Course I or its equivalent. Field or laboratory work may be undertaken along suitable lines, as individually arranged.

IV. The planning, interpretation, and presentation of physiological research. Professor LIVINGSTON.

a. *Thirty-six lectures or conferences at hours to be arranged.*

b. *The actual preparation of a manuscript for publication.*

This course is not offered every year, and is not offered at the same year as Course III. It deals with the logical principles upon which research in plant physiology is planned and interpreted, and with principles and methods of presentation. A reading knowledge of at least two languages besides English is highly desirable. Preparation for the conferences requires at least six hours weekly. This consists in the actual tabulation, calculation, and interpretation of various kinds of experimental results, and in the writing of short original discussions and reviews. Details of the preparation of manuscripts and figures for the printer, of proof-reading, etc., receive attention.

UNDERGRADUATE COURSES

BIOLOGY

Biology 1*

Six hours of laboratory work and three lectures or other exercises. weekly through the year. Professor ANDREWS, Associate Professor COWLES, and Assistants.

A course open to all students without previous training in science. Advantageous for all students; for those who expect to enter business or to take up the ministry, law, or social service, and for those interested in philosophy, psychology, ethics, or political economy, as well as for those planning to study medicine or to teach. Designed to train faculties of observation, comparison, and judgment by direct experiences with selected animals and plants, supplemented by lectures that point out present interpretations and biological theories.

Part 1. General Biology. [*Till March* 15.]

Study and comparison, with the aid of the microscope, of typical organisms from the simpler, as Amoeba and Yeast, to the more complex, as the Sweet Pea and the Frog.

Part 2. Embryology. [*After March* 15.]

Direct observation of phenomena of the living frog egg, the formation and transformation of the tadpole; followed by preparation and study of the hen's egg, its origin and mode of developing into the chick.

* This course fulfills the minimum requirement in Biology for entrance into the Medical School and the new School of Hygiene and Public Health.

Biology 2

Comparative Anatomy of Vertebrates, Cytology, and Embryology.

Six hours of laboratory work and three lectures or other exercises weekly through the year. Associate Professor COWLES.

This course continues the training of Biology 1 in limited fields, and is recommended to those who expect to study medicine, or to specialize in any department of Biology.

During the first part of the course dissections of Amphioxus, Shark, Haddock, and Cat are made. The lectures emphasize the principles of Animal Morphology.

The second part of the course consists of a study of the cytological changes taking place in soma and germ cells, and a study of mammalian embryology.

One hour a week throughout the year is devoted to laboratory work on the human skeleton.

Biology 3

Six hours of laboratory work and three lectures or other exercises weekly through the year.

This course is intended both as a cultural course and for those who expect to specialize in some branch of Biology, in teaching or research, in medicine, in forestry, or in agriculture. It may be all Zoology, all Botany, or a combination of the two.

a. Zoölogy.

A comparative study of non-vertebrate animals, with individual problems later on in the course.

b. Botany. (*Half-year Course.*)

The structure, development and function of root, stem, leaf, flower, and fruit. Professor JOHNSON.

c. Botany. (*Whole-year Course.*)

An introduction to botany as a science and to its relations to agriculture, commerce, and the industries. Professor JOHNSON.

Properly prepared students may arrange to devote part of the year to work in plant physiology with Professor LIVINGSTON.

This course will include laboratory and field work, with lectures and reading, upon the structures and uses of the vegetative organs;

upon reproductive structures and processes in the vegetable kingdom, with the evolution and classification of plants, including field practice in the recognition of native plants; and upon the distribution of plants as determined by climate and topography. It may also consider the economic plants producing foods, drugs, lumber, clothing, paper, rubber, etc., including the historical origin of cultivated varieties and their improvement by scientific breeding and selection. It gives training in accurate observation and correct interpretation.

This course helps to an understanding and appreciation of the world about us and serves as a preparation for further special work in botany, plant physiology, forestry, or zoology.

The removal to Homewood has made possible the adequate employment of the Botanical Garden, the greenhouses, and the native forest in the work of this course.

d. Bacteriology.

Six hours of laboratory work and three lectures weekly for eight weeks of first term.

The student learns the methods of handling, cultivating, and studying non-pathogenic bacteria. The practical work gives valuable training in careful laboratory methods. The lectures treat of bacteria from a biological point of view, as very important agents in the processes of nature, especially in relation to other organisms, such as those occurring in the animal or plant body or in the soil. (This course has been given in the past whenever a sufficient number of students have registered for it.)

Biology 4

General Physiology, including Animal Behavior.

Six hours laboratory work and three lectures or other work weekly through the year. Professor MAST.

This is an advanced course extending through two years. It is designed primarily as an introduction to research and should be elected only by those desiring intensive work. It deals with fundamental physiological processes in animals.

First year. The physical and chemical properties of protoplasm; metabolism and growth.

Second year. Reactions and behavior.

Prerequisites: Biology 1 and some knowledge of physics and chemistry.

The work in either year may be taken without that in the other.

ADVANCED DEGREES

DOCTOR OF PHILOSOPHY

The degree of Doctor of Philosophy is offered to students who, after obtaining the baccalaureate degree from a college of good standing, have followed courses of university study under proper guidance and without serious distractions for at least three years, and have satisfied the requirements mentioned below.

The Board of University Studies reserves the right to decide in each case whether the preliminary training has been satisfactory, and which, if any, years of graduate work not spent in this University are to be considered as spent in accordance with these regulations.

At least one academic year must be passed in this University, and, except in extraordinary cases, the one preceding the final examinations.

Principal and Subordinate Subjects

To become a candidate for the degree the student must select a subject on which he intends to concentrate his efforts and must place himself under the guidance of the professor of this subject. This is called his "principal" study. With the advice of the professor and subject to the approval of the Board of University Studies, the student must choose two other studies, known as "subordinate" subjects, which he must follow. These are called the "first subordinate" and the "second subordinate," and the two should represent one year's work, two-thirds of this being devoted to the former.

Acceptance of the Candidate

A student who wishes to be considered a candidate for the degree must make written application to the Board of

University Studies, upon a form provided for this purpose, at least one academic year[1] before he expects to present himself for his final examinations.[2] Before this application can be considered he must satisfy the University examiners that he is able to translate at sight French and German journals and monographs relating to his principal subject.

Requirements for the Degree

Certain requirements, as outlined above, must be met by a candidate in order to obtain the degree; but the distinctive requirement is the presentation of evidence that the candidate has carried to successful completion an original investigation in his principal subject upon a theme approved by his chief professor. The results of this investigation must be embodied in a dissertation, and submitted to the Board of University Studies.

Regulations Concerning the Dissertation

a. The dissertation must be prepared for presentation to the Board of University Studies in accordance with instructions to be obtained from the Registrar, and to every such dissertation must be appended a brief biographical sketch of the author. It must be submitted to the Board at least four weeks before the examinations in the principal subject.

b. The Board shall designate two or more referees, who shall make a written report on the dissertation.

Regulations Concerning the Examinations

a. The candidate shall be subjected to written examinations in his principal subject,[3] and, whenever practicable,

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[1] Applications made by students at the beginning of their final year must be in the hands of the Registrar by October 20.

[2] A student who has been accepted as a candidate for the degree of Doctor of Philosophy will be considered to have satisfied the requirements for acceptance as a candidate for the degree of Master of Arts.

[3] If a student who has absolved the examinations required for the degree of Master of Arts in this University becomes a candidate for the degree of Doctor of Philosophy, he may, at the discretion of the professors, be excused from any further written examinations in the particular courses in which he has already passed.

in both his subordinate subjects. The results of the examinations shall be reported in writing to the Board of University Studies; and, if these reports and the reports on the dissertation are satisfactory, the candidate shall be admitted to an oral examination in his principal and first subordinate subjects before the Board or a section of it.

b. The written examinations in the subordinate subjects may be taken at any time during the candidate's residence at the University, subject to the judgment of the examiners.

c. In the written examinations no session shall exceed five hours. In the oral examinations before the Board the time allotted shall be one hour, and three-quarters of this shall be devoted to the principal subject.

Other Regulations

Before the candidate is admitted to the oral examination he must signify his intention, in the event of his receiving the degree, to print his dissertation in full or in part, and to satisfy the requirements specified below.

If the dissertation is not printed in full, an abstract must be prepared or a portion selected, with the approval of the professor, which shall contain when printed not less than twenty-four octavo pages.

One hundred and fifty printed copies of the dissertation must be presented to the University within one year from the time when the degree is conferred. These must have the prescribed title page and must contain the biographical sketch.

The candidate is advised to have these printed copies ready for presentation before the date for the conferring of the degree; otherwise a deposit of $50.00 with the Treasurer of the University must be made. This deposit is returned when the printed copies are presented to the University. If these have not been received within the year specified, the Board of University Studies may declare the deposit forfeited and may apply the amount in printing the dissertation or a part of it.

Conferring of the 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.

Choice of Subordinate Subjects

The following suggestions are not to be understood as limiting the attention of the student to the subjects directly connected with the requirements for the degree. In order to secure the full benefit of university training, it is often desirable to broaden the outlook through acquaintance with other subjects—especially those that are conterminous with the chosen field of study. It is also important to learn to appreciate the methods and to come under the influence of other personalities than those that dominate the student's special line of work.

In the choice of subordinate subjects to be associated with a principal one, considerable freedom is permitted by the Board of University Studies. Certain combinations have been recognized officially in previous years, and others are admissible.

In the study of any principal subject the knowledge of a limited number of other subjects is, as a rule, essential. If, on entrance, the student is not sufficiently proficient in these, he must follow courses in this University which will give him the requisite knowledge. These courses need not, however, of necessity be offered as first and second subordinates.

In order to guide the student in his selection of subordinate studies, a number of statements are given below in tabular form, which apply to the various departments of study in this University. These statements furnish—

I. In case the student selects a given subject as his principal one—

a. A list of the other subjects an adequate knowedge of which is considered essential.

b. A list of subjects which in the past have been accepted as first or second subordinates in connection with the principal subject.

II. In case the student selects a given subject as his subordinate one—

A list of the courses in that department, which are ordinarily considered sufficient.

Botany

I. *a.* Physics, Chemistry, General Biology, Zoology.

b. Zoology, Physical or Organic Chemistry, Geology, Physiology, Pathology, Plant Physiology.

II. An undergraduate course, with laboratory work; one of the graduate courses.

Chemistry

I. *a.* Mathematics (through the Calculus), General Physics, Mineralogy, Physical Chemistry, Applied Electricity.

b. Mathematics, Physics, Mineralogy, Geology, Physical Chemistry, Biology 1, Applied Electricity, Bacteriology.

II. Chemistry A II or A III, Physical Chemistry, with corresponding laboratory courses.

Classical Archæology

I. *a.* Latin and Greek.

b. Latin, Greek, History, Sanskrit and Comparative Philology, Italian or another Romance language.

II. Five hours weekly for two years for the first subordinate; five hours weekly for one year for the second. Prescribed course of reading.

Those who make Classical Archæology a principal subject are urged to plan for at least one year of residence in Europe, preferably in the American School of Classical Studies at Athens or in the American School of Classical Studies in Rome. For advanced students of Roman Archæology, a reading knowledge of Italian is indispensable.

Education

The selection of the first and second subordinate subjects

is made in accordance with the interests and purposes of the student.

English

I. *a.* Gothic, Old High German, Middle High German, Old Norse, Old French, German and French Literature.

b. German, French, Italian, Spanish, Greek, Latin, Sanskrit, History, Philosophy.

II. Courses in the history of the Language and the Literature, and some special work in selected periods or subjects.

French, Spanish, or Italian

I. *a.* Two Romance Languages in addition to French; Latin, German, English; if practicable, Greek.

b. Other Romance Languages; Sanskrit, Greek, Latin, German, English, History.

II. First subordinate: Courses in the history of the Language and the Literature. Second subordinate: Courses in the history of the Literature, or of the Language and the Literature.

Geology

I. *a.* Students who take Geology as their principal subject, are allowed to select courses suitable as a training for general geology and teaching, or those which lead to specialization in Paleontology, Stratigraphic Geology, Petrography, Mineralogy, or Geological Physics. All students are expected to be familiar with the matter given in the elementary or undergraduate courses.

b. (1) Biology, (2) Chemistry, (3) Physics, (4) Petrography, (5) Mineralogy, (6) Paleontology.

Nos. 1–3 may be taken as second subordinates by all students in Geology.

Nos. 4–5 may be taken as a first subordinate by students specializing in Paleontology or Stratigraphic Geology, who are advised to take Biology or Physics as a second subordinate.

No. 6 may be taken as a first subordinate by students specializing

in Petrography or Mineralogy, who are advised to take Chemistry or Physics as a second subordinate.

II. For students in Physics: Geological Physics, Exploratory Surveying, Crystallography—Optical Mineralogy (Geology 1 in part, Advanced Mineralogy in part).

For students in Chemistry: Geology 3 and Economic Geology, Geology 1, Advanced Mineralogy.

For students in Biology: Geology 1 or 2, Paleontology and Paleobotany, Historical Geology.

German

I. *a.* One or more of the languages of the earlier Indo-European Group (Latin, Greek, Sanskrit), English (Philology and Literature), French Literature, Germanic Philology (in combination with German Literature as major subject), German Literature (in combination with Germanic Philology as major subject).

b. English, French, Latin, Greek, Sanskrit, Spanish, History of Philosophy, German Philosophy, German History.

II. German as first subordinate—Courses in German Literature and Germanic Philology, two years' membership in the Germanic Society.

German as second subordinate—Courses in German Literature and in the History of the German Language, or (for students of Linguistics) courses in Germanic Philology, with some attention to special periods of German Literature; one year's membership in the Germanic Society.

Greek

I. *a.* Latin and English (language and literature).

b. Latin, Classical Archæology, Sanskrit and Comparative Grammar, English, a Romance language, a Semitic language, Philosophy, History.

II. Attendance on the Seminary and other courses five hours weekly for two years for the first subordinate, one year for the second subordinate. Prescribed courses of reading.

History

I. *a.* Political Economy, Political Science, Latin, French, German.

b. Political Economy, Political Science, Philosophy, English, French.

II. For the second subordinate, lectures, with collateral research, two hours a week for two years, either in European, English, or American history; for first subordinate, four hours a week for two years, with choice in the same subjects.

Latin

I. *a.* Greek and English (language and literature).

b. Greek, Sanskrit and Comparative Philology, Classical Archæology (Greek and Roman), English, a Romance language, a Semitic language, History.

II. Attendance on the Seminary and at least three lectures a week during two years for the first subordinate subject, one year for the second—in both cases with prescribed courses of reading in Roman literature.

Those who make Latin their principal subject must take Greek as one of their subordinate subjects. For the requirements in Greek as a subordinate subject see under Greek. They must also follow at least one regular course in Latin Epigraphy and Palæography, as well as in the Comparative Grammar of the Indo-European languages.

Mathematics

I. *a.* While no other subject can be said to be essential to the study of mathematics, it is very desirable that one taking up graduate work should have adequate knowledge of natural sciences, particularly of physics.

b. Physics, Geological Physics, Applied Electricity, Astronomy, History of Philosophy, Psychology, Applied Mathematics.

II. Two or more of the following: Elementary Differential Equations, Theory of Functions, Vector Analysis, Dynamics.

Oriental Seminary

I. *a.* For Hebrew as the principal subject—German, Greek, Latin, Arabic, History of the Ancient East, Biblical Antiquities, Geography of Western Asia.

b. Assyrian, Arabic, Syriac, or Ethiopic, as the first or second subordinate subject; Egyptology, History of the Ancient East, History of Philosophy, Greek, Sanskrit, Philippine languages, as the second subordinate.

II. For Hebrew as first subordinate—Comparative Hebrew Grammar, Hebrew Prose Composition, Old Testament Seminary.

For Hebrew as second subordinate—the second year's course in Hebrew and private reading of at least fifty chapters of the Hebrew Bible.

Philosophy

The choice of subordinate subjects depends upon the character of the direction the student elects to give to his work in Philosophy. Suggestions of suitable minors, to be correlated with different types of philosophical study, are given in the announcement of the department.

Physics

I. *a.* Chemistry and Mathematics.

b. Chemistry, Physical Chemistry, Mathematics, Astronomy, Applied Electricity, Geological Physics.

II. Physics 1, 2, or 3, with corresponding laboratory courses, Advanced General Physics, Applied Electricity.

Astronomy

II. Celestial Mechanics, Cosmical Physics, with observatory work.

Physiology (Animal and Human)

I. *a.* Physics, Chemistry, and Biology.

b. Zoology, Botany, Physics, Chemistry, Physiological Chemistry.

Plant Physiology

I. *a.* Physics, Chemistry, Botany, Zoology, Animal Physiology, Climatology.

b. Chemistry, Climatology, Physics, Botany, Geology.

II. For the first subordinate, courses I and III, I and IV, or course II; for the second subordinate, course I.

Political Economy

I. *a.* History and Political Science.

b. History, Political Science, Philosophy, English, Mathematics, Biology.

II. For the first subordinate, two graduate courses for two years, with prescribed reading; for the second, two graduate courses for one year, with prescribed reading.

Political Science

I. *a.* History, Political Economy, and the Principles of Private Law.

b. History, Political Economy, Philosophy, the Principles of Private Law.

II. Two hours' lecture work, with collateral reading, for two years, for the second subordinate; four hours' work for two years for the first subordinate.

Psychology

I. *a.* Two at least of the following, according to the specific line of psychological work undertaken: Physics, Biology, Anatomy, Physiology, Pharmacology, Philosophy, Art, Philology, Psychiatry, Economics.

b. Psychiatry, Physics, Anatomy, Biology, Philosophy, Education.

II. The selection of work for subordinates is dependent upon the nature of the student's major work.

Sanskrit and Comparative Philology

I. *a.* Classical or Modern Philology, History, Philosophy.

b. Greek, Latin, Germanic Philology, English, Semitic Philology, Philosophy.

II. For the first subordinate subject, a course in Sanskrit, two lectures a week during two years, and attendance on the Vedic Seminary for a half-year, one hour a week; for the second subordinate subject, a course in Sanskrit, two hours a week during a year and a half.

In no case has a student whose principal subject was Sanskrit and Comparative Philology restricted himself to two subordinate subjects. As a rule, Avestan, Lithuanian, Gothic, English, and other subjects figured among his courses, in addition to the principal and the two subordinate subjects.

Zoology

I. *a.* Two or more of the following: Chemistry, Physics, Botany, Geology, Physiology, Psychology.

b. Botany, Plant Physiology, Animal Physiology, Geology, Anatomy, Pathology, Psychology, Physical Chemistry, Bacteriology, Medical Zoology.

II. Biology 1, Biology 2, Biology 3, a graduate course.

MASTER OF ARTS

The degree of Master of Arts is offered to students who have obtained the baccalaureate degree from a college of good standing, have then followed courses of university study under proper guidance for at least two years,[1] and have satisfied the requirements mentioned below.

The Board of University Studies reserves the right to decide in each case whether the preliminary training has been satisfactory, and, if part of the time devoted to graduate work has been passed by the candidate away from the University, whether this time may be considered as spent in accordance with these regulations.

The student must be in attendance at the University during the year immediately preceding the final examinations, unless, for some extraordinary reason, special permission to the contrary is granted by the Board of University Studies.

The program of the "Summer Courses" includes courses in certain subjects, which, provided they are approved by the Board of University Studies, will be accepted in partial fulfilment of the requirements for this degree, in accordance with the following provision: The residence requirement for this degree may be satisfied by attendance and study during not less than three sessions of the summer courses and one year of resident study during the regular session.

To be admitted as a candidate for this degree, the student must make application,[2] according to a prescribed form, to the Board of University Studies at least one academic year[3] before he expects to present himself for his final ex-

[1] Persons engaged in other pursuits, who are able to give only a portion of their time to study, may, by special permission obtained from the Board of University Studies, be allowed to distribute the work of these two years through several years.

[2] A student who has been accepted as a candidate for the degree of Doctor of Philosophy, will be considered to have satisfied the requirements for acceptance as a candidate for the degree of Master of Arts.

[3] Applications made by students at the beginning of their final year must be in the hands of the Registrar by October 20.

aminations. The required work may be limited to one subject only, or it may embrace a principal subject and one or two allied subjects. The professor in charge of the principal subject must be consulted in the selection of the allied subjects.

In order to obtain the degree the candidate must satisfy two requirements:

He must prepare a satisfactory essay, and must pass examinations in his principal subject. The essay must be upon a subject approved by the professor in charge of the principal subject, and must be completed and submitted to the Board of University Studies at least four weeks before the time of the final examinations. Two referees will then be appointed to examine the essay and to present a written report on it to the Board. This essay shall be prepared for presentation to the Board in the manner prescribed for the dissertation submitted for the degree of Doctor of Philosophy.

If the report on the essay is satisfactory, the candidate will then be admitted to the examination. However, on the subjects followed during any academic year the candidate is permitted to take examinations at the end of that year or at the beginning of the next, and, provided these examinations are satisfactory, he will not be examined again in the same courses. Reports of these examinations will be made to the Board of University Studies.

The candidates found worthy of the degree will be reported to the Board of Trustees, and with their approbation the degree will be publicly conferred.

THE COLLEGE OF ARTS AND SCIENCES

The Johns Hopkins University makes ample provision for collegiate instruction. The courses offered to undergraduates are organized with no less care and thoroughness than those intended for advanced students; many of the most experienced members of the University staff coöperate in the conduct of them. No small part of the influence and usefulness of the University has been in connection with the collegiate department, the growth of which has been greatly stimulated by the recent removal to Homewood. In order to provide for the increasing enrollment plans have been matured for the erection of dormitories in the near future.

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 arrangement of studies in certain combinations, which permit, under due regulation, a wide liberty of choice; the facilities afforded young men of superior capacity for carrying their studies beyond the requirements of graduation; the influence upon younger students 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.

Committees

All matters referring to the courses of undergraduate instruction are under the control of the Board of Collegiate Studies, consisting of the President of the University and of representatives from each of the chief departments of undergraduate study. This Board appoints the following standing committees:

1. The Committee on Academic Rules and Regulations, in charge of all questions of general administration.
2. The Committee on Admission and Advanced Standing.
3. The Committee on Scholarships and Honors.
4. The Committee on Student Affairs.
5. The Committee on the Curriculum.
6. The Committee on Summer Courses and College Courses for Teachers.

The Dean of the College Faculty is *ex officio* a member of each of these committees.

Advisers

Each student upon entrance will be assigned by the Dean to an "Adviser," under whose direction he will select his studies for the first year.

Immediately after Easter, having selected some definite subject as his "major," * he must report that major to the Registrar. He will then be assigned to an "Adviser" giving instruction in his major subject.

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.

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* For the definition of a "major" see page 320.

During the month of May in each year all students must consult their Advisers with regard to the courses to be taken in the following academic year, and the Advisers will report to the Registrar at the beginning of the next session. Students who fail to attend courses selected, or who drop courses without the written consent of their advisers, approved by the Dean, will be marked absent and will be subject to the regulations of the Committee on Absences.

Admission to the Department of Medicine

Students who intend to enter the medical department of this University should arrange their work so as to include the following courses: Mathematics and Physics, each for one year; French and German for one or two years; English and Biology, each for two years; Chemistry for three years; and one of the following—History, Political Economy, Philosophy. These students are advised by the Medical Faculty to include courses in Biology and the Chemistry of the Compounds of Carbon in their last year. Their attention is called especially to the desirability of completing their undergraduate work in three years, and accordingly to the conditions under which this can be done (see College Catalogue).

As Latin is no longer required for admission to the College of Arts and Sciences but is a prerequisite for admission to the Medical Department, candidates wishing to study medicine should secure at least two years of Latin before entering the University.

By a special arrangement with the Medical Faculty, students who have completed the courses listed above, and who have to their credit 110 points toward graduation, may be admitted to the Medical School, and will receive the degree of Bachelor of Arts when they have satisfactorily completed one year of work therein.

Special Course Preparatory to the School of Hygiene

The School of Hygiene admits students as candidates for the degree of Bachelor of Science in Hygiene who present a certificate of the completion of at least two years of work in an approved college, and who have had adequate courses in biology, physics, and chemistry, including organic chemistry. To satisfy these conditions, the College of Arts and Sciences offers the following course:

First Year	*Second Year*
English Composition 1	Chemistry 3
Mathematics 1	Physics 1
Biology 1	Two of these:
Chemistry 1	{ English Literature French, German, *or* Spanish Mathematics 2
Military Science *or* Physical Training	Drawing
Surveying (*in June*)	Military Science *or* Physical Training

Upon completion of this preparatory course students will be matriculated in the School of Hygiene and will pursue the studies prescribed therein for the last two years of the course.

Requisites for the Degree of Bachelor of Arts

As 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 language, in mathematics, in the physical and natural sciences, in literature, philosophy, and history, as is believed to be essential to a liberal education.

The courses of study † are selected (as already stated) under the guidance of Advisers; and, expressed in mathematical language, 125 points * are required for graduation. At the end of his first year of residence, each student selects

* For the definition of a "point" see page 321.

† Certain illustrative combinations are printed in the special catalogue of the College of Arts and Sciences.

some subject, called his major, which he wishes to study with special attention during his remaining years of residence; and during these years he must follow at least three courses in this subject and at least two in some cognate subject approved by his Adviser.

All candidates for a degree must take courses in the following subjects:

English Composition.
English Literature.
One of these: Latin, Greek, Mathematics, Physics, Chemistry, Biology.
One laboratory course, unless chosen as above.
One of these: History, Political Economy, Philosophy.
Two courses in Modern Language (only one of which may be elementary).
Military Science or Physical Training.

The remaining courses necessary to complete the number of required points are chosen by the student, subject to the regulations of the Board of Collegiate Studies and to the approval of the Adviser.

No student may take a course not listed in this catalogue, without the written consent of the Dean.

In their first year of residence students should take the following courses:

a. English Composition.
b. French, German, or Spanish.
c, d. Two of these: Latin, Greek, Mathematics, Physics, Chemistry, Biology, Political Economy.
e. Military Science or Physical Training.

A student may be admitted to advanced standing, in accordance with the regulations given on page 324, but in all cases the candidate must pursue the last year of his undergraduate course in this institution. In general, four years of residence are necessary for the completion of the courses required for a degree. A capable student may, however, complete this work in three years.

General Regulations

Courses. The standard course of study in the undergraduate classes of the University consists of three meetings, of one hour each, weekly through the year.

Certain courses in mathematics are accompanied by conferences, the time allotted to which is two hours per week. Courses in the sciences are accompanied by laboratory instruction, to which, in general, six hours per week are allotted.

In stating the requirements for the degree of Bachelor of Arts, use was made of the expression "points." The basis of calculation is as follows:

a. Each three-hour course counts six points; each four-hour course, eight; etc.

b. Each hour of conference in mathematics counts one.

c. Each hour and a half of laboratory instruction counts one.

d. Public Speaking counts one.

e. Lectures and recitations in the course in military science count as described on page 265.

f. Additional credit of one point is given to a student who takes three courses in (a) any one of the foreign languages; (b) English Literature; (c) English Composition; (d) History; (e) Political Economy; (f) Political Science.

Examinations. Examinations of all classes are held about the first of February and at the close of the academic year. These examinations are based upon the work of the preceding term, and the time allotted is as follows: in a three- or four-hour course, three hours; in a one- or two-hour course two hours. Laboratory examinations may be conducted during the last laboratory period of each term.

Additional tests may be given only if unannounced and held in place of the usual recitation.

Reports. Each instructor files with the Registrar at the close of each examination period official reports of the standing of his students. These reports are based upon both the regular exercises and the examinations, and are made in terms of the system of marks adopted by the Board. The average of the two marks is the record of the student for the year.

Informal reports of standing are made to the Registrar on December 10 and March 25.

Marks. The scale of marks for official reports is 10, 9.5, 9, etc. The highest mark is 10, which signifies "excellence," and a mark less than 6 denotes "failure."

In case of absence from examination for any cause the mark "a" is recorded, and the student must report to the Dean immediately upon his return; if his excuse is accepted, he will receive a permit for an examination, which shall be presented to the instructor. A fee of five dollars must be paid by the student for the deferred examination. In case of absence from several examinations, due to the same cause, this fee will cover all the deferred examinations.

A student who receives a mark of 5 or less in a course will be dropped from that course. One who receives a mark of 5.5 will be permitted to remain in the course, but must absolve the condition in any way the instructor may require.

Requirements for Admission

Young men who wish to pursue undergraduate courses should apply to the Registrar of the University for a blank form of "Application for Admission," which must be filled up and *returned to the Registrar at least one week before the time set for the entrance examinations.** These examinations are held at the University in September of each year. [September 13-16, 1920.]

To accommodate those who wish to take their examinations

* It is of advantage to a student to make application on or about the first of June, as in this case the Committee on Admission has an opportunity to recommend any additional preparation that may appear necessary.

at other times and places, the University will accept certificates from the College Entrance Examination Board for subjects passed in accordance with its regulations. As soon as the application for admission is received, it will be acted upon by the Committee on Admission and Advanced Standing, and the applicant will be notified at once of the Committee's action.

Entering students must enroll themselves at the Registrar's Office (Gilman Hall 219) September 22 or 23, 1920. Those who have not already paid the enrollment fee of five dollars, must do so on one of these days, together with the deposit of caution money, the athletic fee, and the tuition fee for the first term. After September 23 the enrollment fee is *seven* dollars.

Members of the upper classes must enroll themselves September 24 or 25, 1920. A fine of one dollar for each day of delay will be levied against those failing to enroll before 4 p. m., September 25.

The Dean and the First-Year Advisers will meet all newly-admitted students on Friday, September 24, at 9 a. m., at which time students will be assigned to class sections. On Tuesday, September 28, all students must report at classes; absences will be reckoned double.

The requirements for admission to the Department of Engineering and to the Special Course preparatory to the School of Hygiene are similar to the foregoing; for details, consult the catalogues of those departments.

To show that he has a satisfactory knowledge of the subjects required for entrance, the applicant must submit a certified statement, on a blank furnished by the Registrar, signed by the principal of the school in which he has been prepared for college.

If the statement is satisfactory, the applicant will be admitted to such examinations as the Committee on Admission may prescribe; if it is unsatisfactory, the Committee will prescribe such conditions as may be necessary.

Applicants are received without examination upon the certificate of the principals of certain approved schools, provided the certificates fully and satisfactorily cover the requirements for admission. If a student's grade in any subject is less than one-fifth higher than that required by his school for graduation, he will be required to take the entrance examination in that subject.

The admission of students from other schools, and of students who have not met in full the requirements for matriculation, rests with the Committee on Admission, which considers each case on its merits. In exceptional cases only are students admitted with conditions.

Division of the Matriculation Examination

The applicant may pass a part of the examination one year before his admission to the University and receive credit, under the following conditions:

In his application *he must distinctly declare his intention to divide the examination.* The subjects passed will count toward matriculation if the applicant offers the remaining subjects within the ensuing year.

Advanced Standing

Students who desire to enter the University from other institutions of collegiate grade must submit statements showing the subjects offered for matriculation at those institutions, as well as a list of the courses, with grades, pursued after entrance. The University provides a special blank for listing the required information. It is desirable that a catalogue be sent, with the courses marked. In order to receive the degree of Bachelor of Arts from the Johns Hopkins University, a student must have satisfied the conditions of matriculation and have completed the courses required of all undergraduates (see page 320).

Table of Admission Requirements

Those who wish to become candidates for the degree of Bachelor of Arts must present evidence of a satisfactory knowledge of the following subjects.

1. Mathematics:	
a. Algebra *a* and *b* (1½ units)	(C. E. E. B., Math A, or Math. A 1 and A 2).
b. Plane Geometry (1 unit).	(C. E. E. B., Math. C).
2. English (3 units).	(C. E. E. B., English 1 and 2).
3. Foreign Language (4 units required; not less than 2 units accepted in any one language):	
a. Latin: Grammar, Composition, and *Cæsar*, books I-IV (2 units).	(C. E. E. B., Latin 3).
Cicero, 6 orations (1 unit).	(C. E. E. B., Latin 4).
Vergil, books I-VI (1 unit).	(C. E. E. B., Latin 5).
b. Greek c. French d. German e. Spanish — Elementary (2 units).	(C. E. E. B., Greek A 1, A 2, B, French A, German A, Spanish).
b. Greek c. French d. German e. Spanish — Intermediate (1 additional unit).	(C. E. E. B., Greek A 1, A 2, B, C, F, G, French B, German B).
4. History (1 unit).	(C. E. E. B., History A, B, C, D, or E)
5. Electives, to make 15 units in all, from the following subjects only:	
a. Solid Geometry (½ unit).	(C. E. E. B., Math. D).
b. Plane Trigonometry (½ unit).	(C. E. E. B., Math. F).
c. Languages (1 to 5 units additional).	
d. History (2 units additional).	
e. Physical Geography (1 unit). f. Biology (1 unit). g. Botany (1 unit). h. Zoology (1 unit). i. Physics (1 unit). j. Chemistry (1 unit).	(C. E. E. B. Equivalents).

A student must have satisfied the foregoing requirements before he may be fully matriculated.

For further information regarding the College of Arts and Sciences see special catalogue.

COLLEGE COURSES FOR TEACHERS

The University also offers collegiate instruction in the division designated The College Courses for Teachers. It is the primary aim of these courses, which were instituted in 1909, to provide teachers in public and private schools with opportunities for further personal culture and for increasing their professional equipment and efficiency. Satisfactory work accomplished in these courses is credited, under suitable regulations, towards the baccalaureate degrees, but especially towards the degree of Bachelor of Science.

The courses are open to men and women on equal terms. Persons other than teachers are regularly admitted to the courses which they are prepared to pursue, either with or without reference to the requirements of a baccalaureate degree.

The courses are conducted in coöperation with Goucher College. Men desiring to become candidates for the degree of Bachelor of Arts may acquire credits to the amount of ninety points in these courses, and complete the requirements by spending one year in residence in the academic department. A similar provision, in the case of women desiring to proceed to this degree, is made by Goucher College.

Since the opening of this division, courses have been given in the following departments: biology, chemistry, classical archæology and art, drawing, education, English, French, German, history, hygiene, Italian, Latin, mathematics, Oriental history and literature, philosophy, political economy, political science, psychology, Russian, and Spanish. Forty-four courses have been conducted during the present session, with an enrollment of seventy-one candidates for the degree of Bachelor of Science and five hundred and sixty-three other students. The July issue of the *Johns Hopkins University Circular* announces the courses that will be offered in the several departments next session.

The tuition fee is $10 per year for each hour per week. Students registered in all other divisions of the University and paying full tuition or on scholarship appointment are permitted to register in any of these courses without payment of additional fees.

The session of 1920-21 begins Monday, October 4, 1920. Further information may be had by addressing the Director of the College Courses for Teachers.

THE DEGREE OF BACHELOR OF SCIENCE

The degree of Bachelor of Science, established in 1915, is offered to both men and women completing the required program of studies in the College Courses for Teachers in accordance with the regulations. Courses in Business Economics and Summer Courses may be pursued with reference to these requirements.

In making provision for the instruction leading to the degree, the University aims primarily to afford an opportunity to students, unable to devote their whole time to study, to secure the benefits of collegiate education for either vocational or cultural purposes.

Those who wish to become candidates for the degree of Bachelor of Science must present evidence of having successfully completed courses of study equivalent to the graduating requirements of a standard four-year high school. This evidence may be offered by either of the following means:

1. Presenting certificates:
   (a) Of graduation from a secondary school having a course of study of four years, and approved by the Committee on Matriculation.
   (b) Of the College Entrance Examination Board, or other approved examining boards.
2. Passing an examination.

Fifteen units of secondary instruction are required for matriculation, of which nine are prescribed and six are elective. The subjects in which the prescribed units must be offered are:

English (*three*), History (*one*), Mathematics (Algebra and Geometry) (*two*), a Modern Foreign Language (*two*), Science (*one*).

The remaining six units may be offered by election from the following group, the number of additional units accepted in the several prescribed subjects being indicated in parentheses:

> Domestic Science (*one*) or Manual Training (*one*), Drawing (*one*), History (*one,* or *two*), Latin (*two,* or *three,* or *four*), Mathematics (*one,* or *one and a half*), Modern Foreign Language (*two,* or *three,* or *four*), Music (*one,* or *two*), Science (*one,* or *two*), Bookkeeping (*one*), Commercial Arithmetic (*one*), Commercial Geography (*one*), Commercial Law (*one*).

Advanced standing may be granted to applicants who offer approved collegiate or professional courses in a college, scientific school, normal school, training school, or technical school in advance of high school graduation.

The course of study enabling the candidate to meet the graduation requirements of one hundred and twenty points is made flexible so as to permit a choice of courses in various subjects, within limits, in accordance with the future interests of the student.

The requirements are:

1. A series of subjects required of all matriculated students, namely: English, two courses; Foreign Languages, three courses in at least two languages; History, one course; Science, one course.
2. A major consisting of three courses in one subject and of two courses in one or two cognate subjects. The required courses may not be counted as part of the work in the major.
3. Electives sufficient to complete the requirement of one hundred and twenty points.

All candidates for the degree must complete a minimum of twenty-four points in the College Courses for Teachers. The maximum credit allowed a student in one summer session is eight points.

Academic arrangements have been made with the Maryland Institute and the Peabody Conservatory of Music, of Baltimore, whereby majors in Fine Arts and in Music may be offered by completing prescribed courses of instruction in these institutions, respectively.

The fee for matriculation is $5. The charge for tuition in the College Courses for Teachers is $10 per year for each hour per week; in the Summer Courses, $30 per session. Laboratory fees for material consumed are stated in the announcements of the several courses. The fee for graduation is $5, payable before the delivery of the diploma.

SUMMER COURSES

The University has conducted annually since 1911 a six-weeks' session of instruction in the summer. The tenth session will open on Tuesday, July 6, 1920, and close Friday, August 13. The registration days for the session are July 3 and 5. Examinations will be held on August 13.

Courses will be offered to men and women, on equal terms, in biology, chemistry, classical literature, economics, education, English composition and literature, French, German, history, journalism, manual training, mathematics, philosophy, politics, psychology, and Spanish.

A school of observation and demonstration will be conducted in the department of education. The graded elementary school will include pupils in the fourth, fifth, sixth, seventh, and eighth grades, and also Junior High School classes.

Each course will consist of thirty class exercises, or their equivalent. Credit is given for the satisfactory completion of such courses as are accepted by the several Boards and Committees of instruction for the degrees of Master of Arts, Bachelor of Arts, Bachelor of Engineering, and Bachelor of Science. One of the two years of resident study required for the degree of Master of Arts may be absolved by attendance and study during three summer sessions. The maximum credit allowed in one summer towards a baccalaureate degree is eight points.

During the summer of 1919 the enrolment included 422 university students and 260 pupils in the demonstration schools.

II. FACULTY OF MEDICINE

Requirements for Admission

As candidates for the degree of Doctor of Medicine the School receives:

I. Those who have satisfactorily completed the Chemical-Biological course, which leads to the A. B. degree in this University (Course I, course preliminary to medicine).

II. Students of this University who have to their credit 110 of the 125 points required for the Bachelor's degree, including the required work in biology, chemistry, and physics, and in French and German, may be admitted to the Medical School, and will receive the degree of Bachelor of Arts when they have satisfactorily completed one year of work therein. This privilege, however, will be accorded only to students whose average college standing is 85 or more.

III. Graduates of approved colleges or scientific schools who can furnish evidence: (*a*) That they have an acquaintance with Latin and a reading knowledge of French and German: (*b*) That they have such knowledge of biology, chemistry and physics, as may be obtained from the minimal courses described below.*

* Biology.—Three hours of class work per week for one year, and at least 180 hours of laboratory work upon the structure, functions and life-histories of selected types of animal and plant life. It is desirable that the course should include laboratory instruction in embryology. Courses in botany or zoology will be accepted provided the laboratory work has been adequate.

Chemistry.—Inorganic: three hours of class work per week for one year, and at least 150 hours of laboratory work. Organic: thirty lectures and 90 hours of laboratory work.

Physics.—A collegiate course consisting of four hours of class work per week for one year, and at least 90 hours of *quantitative* work in the laboratory. Special attention should be given to theoretical mechanics and to mechanical and electrical experiments.

Latin.—The candidate must have studied Latin grammar and possess at least such knowledge of the language as may be acquired by reading four books of Cæsar or their equivalent.

IV. 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 in addition, the knowledge of Latin, French, German, physics, chemistry, and biology above indicated.

(Thus far, no students have been accepted under this provision.)

Application for Admission

Application for admission must be made to the Dean prior to July first. Printed forms will be furnished, one page of which is to be filled out by the applicant and the other by an officer of the institution at which the collegiate degree was obtained. The former gives information concerning the general preliminary education, and the latter authoritative data concerning the instruction received in the pre-medical sciences and the modern languages.

As the size of each class is limited, it is attempted, in case a greater number apply, to choose ninety of the most promising applicants. The choice is made by taking into consideration the character of the college from which the applicant graduated, his standing in the pre-medical sciences and the languages, and the estimate made by one of his science teachers, in a personal letter to the Dean, as to his or her fitness to undertake the study of medicine.

Applications may be filed at any time, but, except in unusual circumstances, they will not be considered formally before July first. Notification of acceptance will be sent not later than July fifteenth.

Under no conditions will aplicants be accepted who are deficient in the underlying sciences, but in exceptional instances those having only a deficiency in French or in German may be admitted conditionally, on the understanding that the condition must be absolved before the beginning of the second year.

All students after acceptance by us will be required to obtain from the Department of Education of the State of

Maryland a certificate indicating that they have satisfied the requirements of law for admission to the study of medicine in this State.

Admission to Advanced Standing

Students from acceptable medical schools may be admitted to the second-, third-, or fourth-year class if vacancies occur. Such applicants must furnish evidence (1) that they are eligible to the first-year class without conditions of any kind; (2) that medical courses equivalent in kind and amount to those given in this school in the year or years preceding that to which admission is desired, have been satisfactorily completed; and (3) they must be prepared to pass examinations at the beginning of the session in October in all subjects already pursued by the class to which admission is sought. The applicant must have studied as a matriculated medical student for a period of time at least equal to that already spent by the class which he seeks to enter.

As graduation from an approved college or scientific school is essential for admission to this school, applicants from universities conferring a degree upon the completion of a combined course, consisting of two years of collegiate and two years of medical work, are not eligible for admission to our third-year class.

As graduation from an approved college or scientific school is essential for admission to this school, applicants from universities conferring a degree upon the completion of a combined course, consisting of two years of collegiate and two years of medical work, are not eligible for admission to our third year class.

Instruction for Graduates in Medicine

During the school year, a limited number of graduate students may be admitted to work in the several departments, in so far as they do not interfere with the routine work of the undergraduate students.

In every instance the arrangement for such instruction and facilities must be made directly with the head of the department concerned, but work cannot be commenced until after registration at the Dean's office.

Persons who have already received the degree of Doctor of Medicine elsewhere, will not be admitted as candidates for that degree from this University. Should further instruction be desired, they may enter as graduate students.

SPECIAL WORKERS.—Special workers, not candidates for a degree, may be received at the discretion of the Faculty.

REQUIREMENTS FOR GRADUATION

The degree of Doctor of Medicine is conferred upon those who, after fulfilling all the requirements for admission, have completed satisfactorily a four years' course of study.

Students who have been admitted to advanced standing, as well as those of our own students who have been granted permission to pursue a part of their studies elsewhere, must spend at least the final year in the Medical School of this University.

The degrees are publicly conferred at the University Commencement on the third Tuesday of June, or on Commemoration Day, February the twenty-second.

EXAMINATIONS

At the end of the fifth trimester, the records of all students in the second year class are reviewed by the Committee on Instruction and Examinations for the first two years. Students who are reported as having failed in any two of the following subjects: anatomy (including histology), physiology, physiological chemistry, pharmacology, pathology, (including bacteriology), will be advised to withdraw from the school. Those who fail in one subject will be allowed to take a second examination not later than the following October.

No student will be permitted to enter upon the work of the fourth year until he has absolved the required third year work in gynecology, physical diagnosis, clinical microscopy and neurology.

Final examinations for graduation will be held in Medicine, Surgery, Obstetrics and the Major Electives. The examination in Obstetrics may be absolved at the end of the third or during the fourth year.

Third year students who fail in two major subjects will be advised to withdraw from the School. Those who fail in either medicine or surgery and who stand low in other subjects will be required to stand a joint examination in medicine and surgery the following Fall before a committee consisting of the professors of both branches and one or more of the senior members of each staff. This examination will be oral and practical and, in case of failure, the student will be advised to withdraw from the School.

The estimation of the standing of each student is based upon the general character of his work, as well as upon the results of examinations. When the average standing falls below 75, the student will be notified at the end of the year.

Students not appearing for examination on the specified dates or coming up for re-examination will be required to pay a fee of $5.00 for each examination.

First and Second Years

The practical examination in microscopic anatomy will be held at the end of the second trimester of the first year, and in gross anatomy after the student has completed the dissection of the human body. The final examination in anatomy must be taken not later than the end of the second trimester of the second year.

Final examinations in the other subjects will be given as follows:

Bacteriology: at the end of the third trimester of the first year.

Physiological Chemistry: Group A, at the end of the third trimester of the first year; Group B, at the end of the first trimester of the second year.

Physiology: at the end of the first trimester of the second year.

Pathology: at the end of the second trimester of the second year.

Pharmacology: at the end of the second trimester of the second year.

Third and Fourth Years

At the end of the third year, final examinations are held in obligatory obstetrics, gynecology, nervous diseases, clinical microscopy and surgical pathology.

At the end of the fourth year final examinations are held in medicine and surgery. In the elective courses and special branches, the examinations are held upon the completion of the work.

General Plan of Instruction

Each year is divided into trimesters, the first extending from October to the Christmas recess, the second from January to March 15, and the third from March 15, to the end of the academic year.

The first two years of the course are devoted mainly to the fundamental medical sciences, the larger part of the time being spent in practical work in the laboratories. In the last two years the various clinical branches are studied in the wards of the Hospital, the dispensary, and in the clinical laboratories.

The principal studies of the first year are anatomy, histology, neurology, bacteriology, physiology, and physiological chemistry. The study of anatomy and of physiology is continued in the second year, together with general pathology, pathological anatomy and histology, pharmacology, and toxicology. During the last trimester of the second year

instruction is begun in physical diagnosis and in certain surgical methods, as an introduction to the clinical work of the succeeding years.

The major portion of the work of the first two years is obligatory for all students, but the time is so arranged that certain elective courses may be selected thereby making it possible either to give more time to the obligatory courses, or to do special work along related lines.

In these two years thirty units of work are required—the unit being a course or group of courses of instruction equivalent to five hours a week for one trimester. Consequently it is necessary for the student to take five units of obligatory and elective work during each trimester, in order to complete in two years the requirements for entrance upon the clinical studies. The system, however, permits him to spend an additional trimester or longer in the preparatory work, should it prove necessary or desirable.

As the third and fourth years are devoted to practical medicine, they can not be taken up until the student has obtained credit for the prescribed minimum of work in the underlying sciences.

The work of the third year is largely obligatory. The student attends the clinics and dispensary exercises in medicine and surgery, and completes the required work in obstetrics, gynecology, and nervous diseases.

For the morning work the class is divided into four groups. From 9 to 10 a. m. each group receives instruction in obstetrics, gynecology or surgery, and from ten o'clock to noon the time is devoted to practical work in the medical, surgical and nervous departments of the dispensary. From 12 noon to 1 p. m. the entire class attends the amphitheatre clinics in medicine or surgery. The afternoons are devoted mainly to laboratory work in clinical microscopy and surgical pathology. Instruction is also given in practical therapeutics and pharmacy, thus completing the pharmacological work of the previous year. Moreover, short propadeutical courses

are given to familiarize the student with the use of the ophthalmoscope and laryngoscope. On certain afternoons there are also offered a number of short elective courses of a practical character, and each student is required to select from them a sufficient amount of work to give him a credit of one and a half units.

The work of the fourth year is partly elective. For this purpose the class is divided into three groups, each working in rotation for one trimester in medicine, surgery, and in certain elective subjects.

Each student must complete 18 units of work during the year—the unit being a course or group of courses occupying six hours a week for one trimester. Twelve units are obligatory, and include six units in medicine (including pediatrics) three units in surgery, one unit in ophthalmology, one unit which may be selected from laryngology, dermatology, genito-urinary surgery, orthopedics or neurology while another unit is based upon attendance upon a weekly amphitheatre clinic in medicine, and upon a group of lectures upon medical zoölogy, psychiatry, hygiene, medical jurisprudence and medical ethics.

The obligatory work in medicine, which includes a part of the required work in pediatrics, requires, at least, six hours of work a day for one trimester. The members of this group act as clinical clerks in the medical wards of the hospital, a certain number of beds being assigned to each student. They take the histories of the patients and make the necessary examinations and notes under the guidance and direction of the resident staff. They accompany the physician-in-chief or some member of the senior staff in the daily ward-rounds, and receive special bedside and laboratory instruction.

In the surgical trimester, the student gives three hours a day to attendance upon ward-rounds, operations, and to work in the surgical laboratories. The members of this group act as surgical dressers in the wards. They make the

morning visits with the surgeon-in-chief or a member of the senior staff, and have daily opportunities to become familiar with the diagnosis, management and progress of surgical cases. They are also given an opportunity to take an elective course in operative surgery upon animals.

The elective work is arranged in major, minor and fractional courses. The former occupy 3 or 2½ hours a day throughout one trimester, according as the classes are in the morning or afternoon, and count as 3 or 2½ units respectively. In the minor courses, which count as one unit, one hour a day, or two hours every alternate day, throughout one trimester, are devoted to the subject while several fractional courses may be combined to make one unit. Students choosing such courses must register at the Dean's office and will be expected to complete them satisfactorily and to submit to an examination at their close. In fractional courses, which count as less than one-half of a unit, examinations will not be held, and regular attendance, properly certified by the instructor, will entitle the student to the allotted credit.

After having once been chosen, elective courses must be followed to the end of the trimester. These courses may continue the practical work in medicine, surgery, obstetrics, gynecology, etc., or may bear upon the various specialties, or may be taken in the laboratories of the underlying medical sciences.

To summarize, the time of each fourth-year student is apportioned as follows: trimester A, practical work in medicine during the entire day; trimester B, practical work in surgery during the morning, and in the afternoons short courses in ophthalmology, and in one of the special branches of medicine; trimester C, six units of elective work. In other words, each student after completing certain minimal requirements (chiefly in medicine and surgery), may extend his knowledge by taking a number of short clinical courses in various branches, or he may concentrate his attention upon the work of a few departments.

Scholarships

Hopkins Scholarships

Six Hopkins Scholarships are open annually to students from Maryland, North Carolina, and Virginia. These scholarships give free tuition for one year and are granted to deserving students who have shown marked aptitude in their work. Three are given to fourth-year students, two to third-year students and one to a second-year student. Applications should be addressed to the Dean of the Medical School not later than May first, in accordance with a prescribed form.

III. FACULTY OF HYGIENE AND PUBLIC HEALTH

In June, 1916, the Rockefeller Foundation of New York notified the President of the Johns Hopkins University that the Foundation was prepared "to co-operate with the University in the establishment of a School of Hygiene and Public Health for the advancement of knowledge and the training of investigators, teachers, officials and other workers in these fields."

This offer was accepted by the University, and on June 12, 1916, the President of the University made the formal announcement that the Board of Trustees had authorized the establishment of a School of Hygiene and Public Health as part of the University. Dr. William H. Welch was appointed Director and Dr. William H. Howell was named to assist in the work of organization.

The main objects of the School are to establish courses for the training of qualified persons for public health work, to promote investigative work in hygiene and preventive medicine and provide opportunities for the training of investigators in these subjects, and to develop adequate means for the dissemination of sound hygienic knowledge. Men and women are admitted on the same terms.

Courses and Degrees

I. Course leading to the degree of Doctor of Public Health:

The purpose of this course is to furnish instruction in public health knowledge and methods to those who have a liberal education and a fundamental training in medicine. The course will consist of specified work throughout two years together with a summer spent in field work in some organized public health service. The specified work will comprise courses in the following subjects: advanced bacteri-

ology and immunology; the chemical and bacteriological analysis of foods, water and sewage; statistical methods; sanitary and administrative law; nutritional and environmental hygiene; the history of hygiene; protozoology and medical zoology, epidemiology, the administrative control of disease, sanitation and public health organization, sanitary engineering, and social and mental hygiene. It is understood that these requirements may be modified to suit the needs or aptitudes of special students. An essay based upon individual study of some problem or subject in hygiene is to be submitted before receiving the degree. Graduates in this course should be prepared to serve as public health officials in those important positions in which the health of large communities is involved and in which relations must be maintained both with the medical profession and the general public. The following groups of students will be accepted as candidates for this degree:

a. Graduates of approved medical schools who have had a liberal education as evidenced by a degree in arts or science, or its equivalent. These candidates will be required to pursue a two-years' course together with one summer of practical work in an organized public health service.

b. Students who have completed satisfactorily three years of the course in an approved medical school and who have had a liberal education as evidenced by a degree in arts or science, or its equivalent. Arrangements have been made with the Johns Hopkins Medical School whereby students in this school can pursue a combined course in medicine and in public health of such a character that a student may receive his degree in medicine on the completion of four years' work, and his degree in public health after an additional or fifth year of work in the School of Hygiene and Public Health together with a summer spent in

practical field work. In their fourth year these students may fill all of their elective hours with subjects taken from the curriculum of the School of Hygiene and Public Health. A combined course of a similar character may be obtained with other medical schools by special arrangement.

II. Courses leading to the degree of Doctor of Science in Hygiene:

The underlying object in the arrangement of these courses is to train specialists in the various departments of public health work, and to afford opportunity for those not graduated in medicine to undertake public health work. The field is large and varied. In addition to general administrative officials and those immediately occupied with the protection of the community from epidemics and insanitary conditions, it is obvious that specially trained individuals are needed in such matters as school hygiene, occupational hygiene, statistical investigations, nutritional problems, etc., both for the purpose of adding to knowledge and for giving special services.

For work of this character previous training in the physical and biological sciences is more essential than acquaintance with clinical methods, and it is proposed, therefore, in planning these courses, to base them upon a liberal education, and an adequate training in physics, chemistry, biology, and the medical sciences. After matriculation in the School each candidate will be expected to absolve certain courses of a basic character, but for the most part his time will be devoted to advanced work. This latter part of the work must include a special investigation of some problem the results of which are to be presented in the form of a dissertation. In view of the special requirements and the time implied in completing successfully a definite research, it may be assumed that after obtaining the bachelor's degree at least three years of work will be necessary to meet all the requirements for the degree of Doctor of Science in Hygiene.

To be accepted as a candidate for this degree the following requirements must be fulfilled:

a. A degree in arts or science or its equivalent, as evidence of a liberal education.

b. Certificates of the satisfactory completion of adequate courses in chemistry, physics, and biology.

c. Certificates of the satisfactory completion of adequate courses in anatomy, physiology, and pathology.

d. In exceptional cases, on the recommendation of the head of a department, a candidate may be accepted who offers in place of (c) satisfactory evidence of special training of an advanced character in subjects fundamental to his main field of work.

After acceptance as a candidate the student will be assigned for advice and guidance to the head of the department in which he will specialize. The regulations governing the presentation and publication of dissertations, and the oral and written examinations of candidates, are published in the catalogue of the School of Hygiene and Public Health, which will be sent on application.

III. Course leading to the degree of Bachelor of Science in Hygiene:

It is evident that if public health work in this country develops along the lines followed at present there will soon be established in every community an organized service, including laboratory facilities, for the control of the health affairs of that community. For such services trained workers should be provided who can undertake the necessary work connected with the chemical and bacteriological examination of water, sewage, foods, excretions, blood; the preparation of bacteriological and serological material and sanitary inspections. Courses have been established for the training of such workers leading to the degree of Bachelor of Science in Hygiene. These courses require two years of work in the School of Hygiene and Public Health and the Medical School. They

are based upon a liberal education and an adequate knowledge of physics, chemistry, and biology such as can be obtained in two years of a college course. The first year's work consists of courses in physiology, bacteriology, anatomy and histology, elementary statistics and physiology as applied to hygiene. The second year's work consists of courses in advanced bacteriology, immunology, parasitology, statistics, the chemistry of foods, water and sewage, nutritional hygiene, and sanitary engineering. The requirements for matriculation in these courses are as follows:

a. Certificate of matriculation in an approved college and the completion of at least two years of college work.

b. Certificates of adequate courses in biology, physics, and chemistry, including organic chemistry.

By an adequate course is meant in physics one year of college work covering approximately 100 hours of laboratory and 100 hours of class work; in biology one year of college work covering approximately 150 hours of laboratory and 100 hours of class work; in chemistry one to two years of college work covering approximately 250 hours of laboratory and 120 hours of class work.

IV. Course leading to a Certificate in Public Health:

A certificate in public health may be awarded to qualified persons after one year of residence and the satisfactory completion of lectures and laboratory courses equivalent in amount to the work of a full academic year. The courses followed may vary according to the individual need of the applicant, but they must include practical work in epidemiology and in such other courses as may be approved by the faculty.

Candidates for these certificates must be graduates in medicine of an approved medical school or graduates in arts or science who can furnish satisfactory evidence of previous training in the physical and medical sciences.

Special Students

An opportunity to use the facilities of the School will be granted to the following groups of special students not registered as candidates for a degree:

1. Public health officers who may wish to take one or more lectures or laboratory courses, or engage in the study of some special problem.
2. Other qualified persons who may wish to attend special courses or undertake research work and whose qualifications receive the formal approval of the faculty of the School.

Courses for Social Workers, Nurses and Teachers

It is the intention of the School to organize, in the future, a series of courses which will be designed especially for the instruction of health nurses, social workers and teachers. These courses will be of a practical character and those who register for them and pass the examinations will be granted suitable certificates. The relations of public and personal hygiene and of individual sanitation to the welfare of society will receive especial consideration. The details concerning these courses will be announced later.

The De Lamar Lectures in Hygiene

A series of popular lectures in personal and public hygiene will be arranged each session. The object of these lectures is to bring before the public the general facts and points of view of modern hygiene, with the hope that in this way the School may serve as a center for the distribution of useful knowledge in all matters pertaining to sanitation and preventive medicine. These lectures are supported from the fund bequeathed to the Medical School by Joseph R. De Lamar.

Scholarships

A certain number of scholarships carrying free tuition will be awarded annually by the Trustees of the University upon the recommendation of the faculty. These scholarships will be awarded for one year, but may be renewed for a second year. Applications may be made to the Director of the School.

Fellowships

Six research fellowships carrying each a stipend of $1,000, and exemption from all charges for tuition are awarded annually by the Trustees of the University upon the recommendation of the faculty. The conditions upon which these fellowships are awarded are as follows:

1. The applicant must have received his doctor's degree in medicine, science, philosophy or public health, or furnish evidence of experience and meritorious service in scientific work.
2. The holder of a fellowship must give his time primarily to investigative work, approved by some member of the staff of the School, and must be in residence during the academic year, unless permission is granted to him by the faculty to carry on his work elsewhere.
3. The application should be made prior to March 1st, in writing, addressed to the Director of the School of Hygiene and Public Health.

Registration and Calendar

All students upon entering must report at the Director's office for registration and payment of fees.

The academic year is the same as in other departments of the University.

Instruction begins in the fall on the Tuesday nearest to the first of October. The graduating exercises are held on

the third Tuesday of June. There are short recesses at Christmas and Easter.

Since instruction is arranged on a trimestral basis, it is possible for students to enter the School at the beginning of any trimester, and to graduate at the end of any trimester. Formal bestowal of degrees takes place at the University Commencement in June and on Commemoration Day, February 22nd.

Tuition

The charge for tuition in the courses leading to a degree or a certificate will be $250 per annum, payable at the office of the Director, in three instalments, one at the beginning of each trimester. For students taking special courses the charge for one trimestral course, including laboratory work, will be $50.00. The charge for shorter courses will be arranged on application.

For further information address the Director of the School of Hygiene and Public Health, Johns Hopkins University, 310-312 W. Monument Street, Baltimore, Md.

IV. THE DEPARTMENT OF ENGINEERING

The Foundation

The establishment of the Department of Engineering of the Johns Hopkins University was made possible by the passage of an Act of the General Assembly of the State of Maryland in its session of 1912. The preamble of the Act quotes the Declaration of Rights of the State as follows: "The Legislature ought to encourage the diffusion of knowledge and virtue, the extension of a judicious system of general education, the promotion of literature, the arts, sciences, agriculture, commerce and manufactures, and the general amelioration of the condition of the people." The Act further states that its purpose is the extension to the people of this State of opportunities, facilities, and advantages for education in applied science and advanced technology not hitherto available to them.

The Act provides a liberal appropriation for the erection of buildings and the purchase of equipment, and a continuing annual appropriation available to the University each year. In conformity with the purpose and provisions of the Act the University offers each year a number of scholarships granting free tuition to residents of the State of Maryland.

Instruction was begun in the branches of Civil, Electrical, and Mechanical Engineering in the first of the new laboratories at Homewood, in October, 1914.

General Plan of Instruction

The Department of Engineering offers graduate and undergraduate courses in the branches of Civil, Electrical and Mechanical Engineering. An undergraduate course in Chemistry is also offered, which has been arranged with special reference to the needs of chemical industries.

The new laboratories at Homewood, designed after careful study, provide every accommodation and facility for professional instruction. Besides the complete provision which has been made for undergraduate instruction, equipment has also been chosen with special reference to advanced study and experimental research.

The University operates its own steam and electric power plant, which furnishes heat and electric light and power to the various buildings of the University group at Homewood. The types of the equipment in the power house, their arrangement, and the method of distributing heat and power through tunnels to the various buildings, have been chosen with particular reference to their use for the purposes of instruction.

A number of photographs and plans of the buildings of the engineering group are shown in the announcement of the Department of Engineering. A description of the buildings, with illustrations, has been published in the *Johns Hopkins University Circular* of December, 1916.

Graduate Courses

The graduate courses offer advanced professional instruction. The plan of conducting the work of these courses is in general similar to that which governs the graduate work of other departments of the University.

The progress of the several branches of Engineering is followed in the current literature. Fitness for independent study and investigation is developed by seminary methods and in the laboratory. Special opportunities are offered for research and for experiment in the solution of engineering problems. Effort is made to maintain intimate contact with public corporations and municipal and State departments, and with others engaged in engineering enterprise, with the purpose of studying their problems and so aiding scientific progress in the methods of engineering.

The encouragement of individual initiative and independent study in the graduate courses constitutes especially valu-

able training for those who desire to become teachers of engineering subjects.

Detailed statements concerning the graduate instruction which is offered in the several branches of Engineering are given below. Correspondence is invited as to the facilities which may be offered for the investigation of special problems.

In addition to the professional courses enumerated below, attention is also drawn to a number of courses in allied subjects which are readily available. These courses present the most recent advances in the several sciences from the point of view of theory in its bearing on industrial applications and public needs. Among the more important are those in applied chemistry, economic geology, and the courses in the new School of Hygiene and Public Health. Through the close relationship between these courses and the graduate work in Engineering, exceptional opportunities are offered for specialized professional investigation.

Undergraduate Courses

The undergraduate courses in Engineering aim to give the student a thorough training in the principles of the several branches of Engineering and an introduction to the methods of practice. Emphasis is laid upon fundamental and cultural studies in the first two years. In the later years these studies are combined with professional subjects to an extent which should give the graduate a training and equipment enabling him to take intelligent and increasingly responsible part in engineering undertakings. Particular effort is made to impart a thorough grounding in the general principles of the several branches of Engineering, the greater portion of the time being devoted to this purpose. The further study of special applications is assigned to the graduate years.

The course of undergraduate instruction continues through four years. The program of studies for the first year is the same in all branches (Civil, Electrical, and Mechanical

Engineering and Chemistry). Engineering studies begin in the second year, increasing in number and extent in the third and fourth years. Free-hand drawing is taught in the first year and mechanical and engineering drawing continues through all four years. The fundamental and general educational studies are conducted with the aid of the faculty of the College of Arts and Sciences.

The student may choose at the beginning of the third year the branch of Engineering which he wishes to follow. The fourth year is devoted mainly to professional studies of the principal subject. One of the earlier courses in each subject is arranged with special reference to the needs of students in other branches of Engineering. The curriculum provides places for several elective studies.

In addition to recitations and personal conferences, practical work in the laboratory, demonstrations, and the study of existing engineering installations are prominent features of the methods of instruction.

Students are urged to secure employment in engineering or other industrial organizations during the summer months. Permanent arrangements with a number of such organizations facilitate this feature. At least six months of such work is a prerequisite for graduation.

An unusual feature of the undergraduate instruction is a course of lectures on "Engineering Practice," established through the generosity of Mr. J. E. Aldred. These lectures, nine in number, are given by practising and operating engineers. They are particularly designed to bring before the student the essential features of the planning, construction, and operation of modern engineering projects.

The requirements for admission are the same as for the College of Arts and Sciences and are given on pages 322-325.

General regulations regarding enrollment, attendance, examinations, etc., and the arrangement of courses will be found in the special catalogue of the Department.

Degrees

As evidence that the undergraduate course in Engineering has been successfully completed, the degree of Bachelor of Engineering is conferred at its close. This degree is not intended to indicate completion of formal educational training in Engineering, but rather to mark a starting point from which students, who are for any reason not able or inclined to continue in the rigid discipline of advanced professional study, may nevertheless enter with credit into engineering work under the direction of others.

The student will normally follow one of the courses as outlined in the foregoing pages. Substitution of other studies in place of those prescribed may be made only by special arrangement.

Application for credit for work done elsewhere and for advanced standing should be made to the Advisory Committee of the Department of Engineering before the opening of the year.

A prerequisite for the degree is that the student shall have spent at least six months in the employ of an approved engineering or other industrial organization. Failing this, the degree is withheld until this condition is fulfilled.

The degree of Bachelor of Science in Chemistry is conferred on satisfactory completion of the undergraduate course outlined in the engineering department catalogue.

The degrees of Master of Civil Engineering, Master of Electrical Engineering, Master of Mechanical Engineering are conferred upon those who satisfactorily complete two years of professional study following the degree of Bachelor of Engineering, as described above, or its equivalent. The general character of this training and the courses which are followed have already been described.

The degree of Doctor of Philosophy is open to those who wish to proceed further in special professional study and original investigation, and who comply with the requirements for that degree.

Scholarships

The legislative bill which established the Department of Engineering makes liberal provision for scholarships granting free tuition to deserving students who reside in the State of Maryland.

One hundred and eight scholarships are awarded to young men of Baltimore City and the various counties of the State whose means are such that they are unable to procure a technical education unless free tuition is granted them. In addition twenty-one scholarships are open to graduates of seven colleges of Maryland.

The scholarships are awarded so that as nearly as possible the same number of appointments in each county is made each year. For the year 1920-21 scholarships are vacant in the Counties and in Baltimore City in accordance with the following list:

Allegany	2	Garrett	3
Anne Arundel	2	Harford	0
Baltimore County	1	Howard	1
Baltimore City, 1st district	1	Kent	2
Baltimore City, 2d district	1	Montgomery	2
Baltimore City, 3d district	1	Prince George's	1
Baltimore City, 4th district	1	Queen Anne's	0
Calvert	2	Somerset	3
Caroline	1	St. Mary's	2
Carroll	2	Talbot	0
Cecil	0	Washington	2
Charles	1	Wicomico	2
Dorchester	2	Worcester	0
Frederick	1		

The total number of scholarships which may be held by the residents of the various Counties and of Baltimore City, is given in the following list:

Allegany	6	Garrett	3
Anne Arundel	4	Harford	3
Baltimore County	6	Howard	2
Baltimore City, 1st district	6	Kent	2
Baltimore City, 2d district	6	Montgomery	4
Baltimore City, 3d district	6	Prince George's	4
Baltimore City, 4th district	6	Queen Anne's	2
Calvert	2	Somerset	3
Caroline	3	St. Mary's	2
Carroll	4	Talbot	3
Cecil	3	Washington	5
Charles	2	Wicomico	3
Dorchester	4	Worcester	3
Frederick	5		

Competitive Examination for Scholarships

In order to secure one of these scholarships, application must be made both for entrance to the University and for the scholarship on blank forms which will be furnished by the Registrar of the University. Applications for the scholarships are considered only after the applicants have satisfied the requirements for admission. Examinations are held in September. [September 17, 1920.]

If there is more than one applicant for a particular scholarship, a special competitive examination is held the day following the Autumn entrance examinations. This examination is in Mathematics, English, and one of the four foreign languages—French, German, Spanish, Latin. The scope in each subject is that of the requirements for entrance. The examination in the three subjects covers one three-hour session.

Public announcement is made immediately of the relative standing of the applicants in the competitive examination. Each successful competitor then secures the certification of the Senator from his county or legislative district that the applicant resides in such county or district, and that his financial circumstances are such that he is unable to pursue a technical education unless free tuition be granted. The

results of the competitive examination are sent to each Senator, together with the necessary blank forms of certification. No award of a scholarship is made until this certificate is received.

In addition to the scholarships in the above list six scholarships "At Large" are awarded to any otherwise properly qualified residents of the State of Maryland.

Three scholarships are also offered to Maryland graduates of each of the following colleges: Loyola College, Maryland Agricultural College, Mt. St. Mary's College, Rock Hill College, St. John's College, Western Maryland College, and Washington College. The award of these scholarships is made without reference to the ability of the applicant to pay the fees, and is solely on the basis of merit as certified by the President of the College.

All the scholarships entitle the holders to free tuition, free text-books, and exemption from laboratory fees.

In each county and in each city legislative district the Senator has the privilege of assigning to one of the scholarship holders the "Senatorial Emolument" of $200, or other provision for defraying the cost of board and lodging. The recipient of the emolument is said to hold a "Senatorial Scholarship." Senatorial Scholarships may be awarded for 1920-21 in Baltimore City (3rd District), Calvert, Frederick, Garrett, Kent, Somerset, St. Mary's, and Wicomico counties.

The appointments to all scholarships are for one scholastic year, but the holders are eligible for reappointment from year to year if they conform in character, industry, and ability to the standards and requirements of the University.

Eighty-two scholarships were held during the year 1919-20.

ENDOWED PROFESSORSHIPS AND LECTURESHIPS

The Baxley Professorship

By the will of Dr. Henry Willis Baxley, of Baltimore, who died March 13, 1876, a sum of money, amounting to $23,836.52, was received by the Trustees of the University to endow any medical professorship that they might think proper. This fund was kept intact and allowed to accumulate until it had reached the sum of $50,000. In 1901 the Trustees directed that the fund be set apart as a partial endowment of the Professorship of Pathology in the University, to be known as the Baxley Professorship of Pathology. The first incumbent was Dr. William H. Welch, who, on his resignation in 1917, was succeeded by Dr. William G. MacCallum.

The Caroline Donovan Professorship

Mrs. Caroline Donovan, of Baltimore, gave to the University in November, 1889, shortly before her death, the sum of one hundred thousand dollars to establish a professorship of English literature. The first incumbent is Dr. James W. Bright, who was designated Caroline Donovan Professor of English Literature in 1905. During the intervening years courses of lectures were given by resident and non-resident scholars devoted to study in this field.

The W. H. Collins Vickers Professorship

By the will of Mr. William H. Collins Vickers of Baltimore, who died December 25, 1917, a sum of money was given to the Trustees of the Johns Hopkins University to endow a professorship in Archæology in the University to be known as The W. H. Collins Vickers Chair in Archæology. The first incumbent is Dr. David M. Robinson, who was appointed W. H. Collins Vickers Professor of Archæology in 1920.

The Percy Turnbull Memorial Lectureship

On May 6, 1889, Mr. and Mrs. Lawrence Turnbull, of Baltimore, founded a lectureship in memory of their son, Percy Graeme Turnbull, their purpose being to enable the University to offer an annual course of lectures on poetry by a lecturer to be chosen by the President of the University from among "properly qualified authors, writers, or professors of America or Europe." Twenty-two courses have been given on this foundation, the first in 1891. The list of lecturers includes Edmund C. Stedman, Richard C. Jebb, Charles Eliot Norton, George Adam Smith, Ferdinand Brunetière, and other foreign and American scholars of distinction.

The Herter Lectureship

Dr. and Mrs. Christian A. Herter, of New York, gave to the University in November, 1902, the sum of $25,000 "for the formation of a memorial lectureship designed to promote a more intimate knowledge of the researches of foreign investigators in the realm of medical science." The income of the lectureship is $1,000. According to the terms of the gift, some eminent worker in physiology or pathology is to be asked each year to lecture at the University upon a subject with which he has been identified. The selection of the lecturer is to be left to a committee representing the departments of pathology, physiological chemistry and clinical medicine, and "if in the judgment of the committee it should ultimately appear desirable to open the proposed lectureship to leaders in medical research in this country there should be no bar to so doing." Nine courses have been given on this foundation, beginning in 1904. The lecturers were Paul Ehrlich, of Frankfort-on-Main; Hans H. Meyer, of Vienna; Almroth E. Wright, of London; Edward A. Schäfer, of Edinburgh; Hans Chiari, of Strassburg; Albrecht Kossel, of Heidelberg; George H. F. Nuttall, of Cambridge; Thomas Lewis, of London; Theobald Smith, of New York; Henry Hallett Dale, of London.

The James Schouler Lectureship

In March, 1908, Dr. James Schouler, of Boston, who had lectured in this University annually since 1891, announced his purpose to found a permanent lectureship in the University, to be known as "The James Schouler Lectureship of History and Political Science." It is expected that the endowment of the lectureship will eventually be $25,000. The donor expressed the wish that "such lectures be given annually if possible, * * * and that persons of promise or prominence be selected to lecture, who are capable of interesting as well as instructing an audience." The lectureship was inaugurated in April, 1909, and eight courses have been given, by Abbott Lawrence Lowell, George W. Prothero, John B. Moore, James Schouler, Joseph Redlich, Charles Francis Adams, William A. Dunning, David J. Hill, and Paul S. Reinsch.

The Albert Shaw Lectureship

Dr. Albert Shaw, of New York, a graduate of this University, gives annually the sum of $250 as the honorarium of a lecturer on Diplomatic History. The lectures have been given before the advanced students of history and political science, beginning in 1898. The lecturers have, in most cases, been alumni of the University.

The J. E. Aldred Lectures

Through the generosity of Mr. J. E. Aldred, the Department of Engineering offers a series of lectures in the Practice of Engineering. These lectures are designed primarily for undergraduate students.

The George Huntington Williams Memorial Lectureship

In February, 1911, Mrs. George Huntington Williams, of Baltimore, her two sons, and Miss Cornelia Williams, of Utica, N. Y., gave to the University a fund to be known as

the "George Huntington Williams Memorial Fund," to perpetuate the memory of Dr. George Huntington Williams, late Professor of Inorganic Geology and Petrography in this University. One-half of the income of the fund is to be devoted to promoting investigation in the department of Geology; the remaining half is to be used in securing a lecturer of distinguished attainments on some topic of widespread contemporary interest. The lectureship is to be called "The George Huntington Williams Memorial Lectureship."

In January, 1904, the Trustees decreed that certain chairs should bear the names of leading contributors to the Endowment Fund of 1902, as memorials of their liberality. In pursuance of this action four professorships have been thus designated: The B. N. Baker Professorship of Chemistry; the Francis White Professorship of Greek; the W. W. Spence Professorship of Semitic Languages; the Henry Walters Professorship of Zoology.

THE JOHNSTON SCHOLARSHIPS

These scholarships, of which there are three, known as the Henry E. Johnston Scholarship, the James Buchanan Johnston Scholarship, and the Henry E. Johnston Jr. Scholarship, were founded in 1904 by Mrs. Harriet Lane Johnston, of Washington, formerly of Baltimore, in memory of her husband and her two sons. They are awarded annually by the Trustees on the recommendation of the Academic Council. The stipend of each scholarship is twelve hundred dollars per annum. They are offered primarily to young men who have given evidence of the power of independent research. The holders of the scholarships will be expected to devote themselves to study and research in their chosen subjects, though they may be required to do some teaching. Each one will be designated as the "Holder of the ..... Johnston Scholarship."

REGULATIONS

Candidates for the Johnston Scholarships must make application, in writing, to the President of the University *before the first of March*. The applications must be accompanied by such evidence of the candidates' fitness as they may be able to present. The President will refer the papers to the Academic Council, by whom the nominations will be made to the Board of Trustees at their meeting early in April.

Holders of the scholarships may not engage in teaching elsewhere.

The scholars will be appointed for one year; but, if their work prove satisfactory, they will generally be reappointed.

FELLOWSHIPS

FELLOWSHIPS BY COURTESY

The Academic Council may, at their discretion, by special vote, enroll as Fellows by Courtesy—

(*a*) Persons 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 special vote.

UNIVERSITY FELLOWSHIPS

Ten University Fellowships, established by the Trustees at the opening of the University, are annually awarded, in accordance with the following regulations:

1. The application must be made *prior to March* 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 April. 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 a 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. 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.

9. Successful candidates are expected to signify their acceptance *not later than April 15.*

THE 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 University *before the first of March.* 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, who 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 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.

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 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, and he 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.

Successful candidates are expected to signify their acceptance *not later than April 15.*

THE WILLIAM S. RAYNER FELLOWSHIP

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 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. Applications must be addressed to the President of the University, in writing, *before March 1.* Successful candidates are expected to signify their acceptance *not later than April 15.*

THE EDMUND LAW ROGERS FELLOWSHIP

This endowment, the amount of which is ten thousand dollars, was established in 1910 by Mrs. Edmund Law Rogers and her daughter, Mrs. Kirby Flower Smith, in memory of the late Edmund Law Rogers, of Baltimore, and is known as the Edmund Law Rogers Fellowship.

The fellowship, to which the University has added the privilege of exemption from tuition fees, is awarded annually for proficiency in both the Greek and the Latin languages and literatures. The candidate must have had at least two years of graduate study in the Johns Hopkins University, or have satisfied the examiners of his training and ability by written examinations and the submission of a thesis. In other respects, the conditions of the fellowship are the same as those applying to the University fellowships in this institution. Application must be made *prior to March 1,* in writing to the President of the University. Successful candidates are expected to signify their acceptance *not later than April 15.*

THE GEORGE HUNTINGTON WILLIAMS MEMORIAL FELLOWSHIP

It is expected that the "George Huntington Williams Memorial Fund" will provide for a fellowship in the department of Geology, to be known as the "George Huntington Williams Memorial Fellowship."

THE CHARLES A. W. VOGELER MEMORIAL ARCHAEOLOGICAL FUND

Mr. Charles A. W. Vogeler, a former student of the Johns Hopkins University, who died on March 21, 1919, bequeathed the sum of $5,000 to the Trustees to be used for research in Greek Archæology. It has been decided that the fund shall be placed at the disposal of the department of Archæ-

ology and Art, the income to be used for a fellowship—in which case the University will add the privilege of exemption from tuition fees,—or for research abroad, or for any other purpose that the department may deem proper.

DU PONT FELLOWSHIPS

The E. S. du Pont de Nemours Company gave to the University in 1918 the sum of fifteen hundred dollars to establish two graduate fellowships in the department of Chemistry. These fellowships will be continued for the year 1920-21.

SCHOLARSHIPS FOR GRADUATE STUDENTS

UNIVERSITY SCHOLARSHIPS

For the encouragement of scholarship among those who have received the baccalaureate degree, and wish to continue their studies here, a number of University Scholarships are annually bestowed, as stated below:

1. Fifteen scholarships are open about the first of January to graduates of this or of other institutions who have been studying here during the previous part of the session. Those who wish to be candidates must make formal application to the President, *about December 15,* stating where they have been previously trained and what studies they have pursued in this University. He 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.

2. These scholarships entitle the holders to free tuition and are tenable for one year. They do not carry exemption from laboratory fees.

3. 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.

4. The Board will reserve appointments if worthy candidates do not offer.

HOPKINS SCHOLARSHIPS

In the will of the founder of this 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."

In accordance with this request thirty scholarships, entitling the holders to free tuition for one year, are offered to graduate students from Maryland, Virginia, and North Carolina. In addition to these, the Trustees have established ten similar scholarships which are open to graduate students from States of the South and Southwest other than those named.

The scholarships, known as Hopkins Scholarships, are bestowed for merit, and awards are made by the Academic Council in April of each year. Students can be recognized as candidates only when legal residents of the State from which they desire to be appointed. Holders of scholarships are eligible for re-election, but must make formal application. Application, in accordance with a prescribed form, must be filed at the president's office *before March 1.* Successful candidates are expected to signify their acceptance *not later than April 15.*

Those who are disposed for any reason to waive the pecuniary emolument may do so, and still have their names retained on the honor list. Scholarships may be forfeited because of frequent or prolonged absence, defective scholarship, or unworthy conduct. Holders are not exempt from laboratory fees.

THE A. MARSHALL ELLIOTT ROMANCE SCHOLARSHIP

The will of the late Professor A. Marshall Elliott, who died in 1910, contains the following provision: "I give and bequeath to the Johns Hopkins University, a body corporate, the sum of two thousand dollars to be used for the establishment of a scholarship for graduate students to be known as "The A. Marshall Elliott Romance Scholarship in the Johns Hopkins University."

The scholarship thus established is awarded annually, just before the Christmas recess, by the Academic Council, to one of the students in Romance Languages who at the time are in their first year of graduate work. The emolument of the scholarship is the income of the endowment during the preceding year.

THE GEORGE PEABODY SCHOLARSHIP

The George Peabody Scholarship was founded in 1912 by the Trustees of the Peabody Education Fund, who, in partial preparation for the closing of the Trust, presented to the University a gift amounting to six thousand dollars. This sum is to be held and used as the endowment of a Peabody Scholarship in the Department of Education.

The scholarship is open to men and women who are residents of "The Southern and Southwestern States of our Union," including Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, Missouri, North Carolina, South Carolina, Tennessee, Texas, Virginia and West Virginia. It is offered to candidates who can give evidence of a liberal education, such as the diploma of a college of good repute, and who intend to continue work in education, preferably in connection with a system of public schools in the territory mentioned above. Application must be made to the President of the University *prior to March 1.* There is no prescribed form. Successful candidates are expected to signify their acceptance *not later than April 15.*

The income of the scholarship is two hundred and seventy dollars per annum. The incumbent is expected to pay tuition and laboratory fees, and is eligible for reappointment.

WALTER COTTRELL QUINCY FUND

Mrs. Martha R. Quincy, formerly of Pittsburgh, provided by will for a legacy to the University of $20,000, to establish the "Walter Cottrell Quincy Fund," the annual income of which is to be equally divided among four meritorious students in the department of Physics to be selected by the President of the University. This fund was established in 1914.

WILLIAM H. GRAFFLIN SCHOLARSHIP

The Grafflin Scholarship was established in 1918 by a bequest of the late William H. Grafflin, of Baltimore, and is offered to advanced students who desire to conduct research in industrial chemistry. The income of the scholarship is one thousand dollars per annum.

The Trustees of the University have established five scholarships, yielding free tuition, for the benefit of graduate students from the Latin-American republics.

They also offer five scholarships of the same value to students from France, graduate or undergraduate.

SCHOLARSHIPS FOR UNDERGRADUATES

HOPKINS SCHOLARSHIPS

Sixteen "Hopkins Scholarships," established in accordance with directions contained in the will of the founder of the University, are open to residents of the State of Maryland. They entitle the holders to free tuition, but do not carry exemption from laboratory fees. They 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. These scholarships are awarded by the Board of Collegiate Studies, in accordance with the following regulations:

1. Four scholarships are open, at the beginning of the session, to entering students who are fully matriculated, and who stand best in a special examination in Mathematics and the foreign languages offered for matriculation. [*The examination in* 1920 *will be held September* 17. *Candidates must make written application to the Registrar not later than September* 10.]

2. Four are awarded in June to 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 suggested combinations, or such other studies, equivalent in amount, as may be approved of by the Committee on Scholarships and Honors.

3. Four 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 candidates shall have absolved the studies of the first year as above defined.

4. Four are awarded for excellence in the studies of the third year upon the same terms as in the case of the second year, provided that the candidates shall have absolved the studies of the first and second years.

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 reappointment.

WOODYEAR SCHOLARSHIPS

Mrs. William E. Woodyear, of Baltimore, gave to the Trustees in 1893, as a memorial of her husband, the sum of ten thousand dollars, in order to provide for the annual bestowal of five scholarships, of one hundred dollars each, under such conditions as the Trustees may from time to time prescribe. At present they are awarded to young men who are known to the President of the University to be in need of pecuniary assistance, and who, at the same time, have given evidence of character and ability.

MARYLAND SCHOLARSHIPS

Twenty "Maryland Scholarships" are annually offered to residents of this State who wish to pursue general courses in the arts and sciences. They entitle the holders to free tuition, but do not carry exemption from laboratory fees. The appointments are made for a single year, but the holders are eligible for reappointment. The scholarships are for the benefit of all parts of the State, and, accordingly, not more than one-half the number are awarded to residents of the city of Baltimore, and not more than one-half to those who are

already 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 College Faculty.

Applicants must be fully matriculated and must make application in accordance with a prescribed form, accompanied by testimonials certifying to their character and pecuniary need. In the case of new students the scholastic standing is taken into consideration; in the case of resident students, their college records during the previous session. *Resident students must apply before June* 1; *new students not later than September* 10, 1920.

THE ELI M. LAMB MEMORIAL SCHOLARSHIP

The Alumni Association of the Friends' School of Baltimore gave to the University in 1916 a fund of twelve hundred and fifty dollars, to establish a scholarship to be known as the "Eli M. Lamb Memorial Scholarship." The income is fifty dollars per annum, to which the Trustees add free tuition to the extent of fifty dollars. The scholarship is offered to undergraduates prepared at the Friends' School, of which Mr. Lamb was the founder and for many years the active head.

THE A. Z. HARTMAN MEMORIAL SCHOLARSHIP

Under the will of the late Mrs. Susan M. Hartman, of Baltimore, the University has received a sum of money with which to establish a scholarship in memory of her husband, the late A. Z. Hartman, for many years Professor of Greek and Latin in the Baltimore City College.

THE Z. MORTON KATZ MEMORIAL SCHOLARSHIP

The friends of Z. Morton Katz, of Baltimore, formerly a student in this University, who lost his life in the battle of Montfaucon in France, have established a memorial scholarship to be awarded annually to a member of the graduating class of the Baltimore City College, on the ground of superior

character and scholarship, preferably to a student who would not otherwise be financially able to enter the University.

HORTENSE G. MOSES SCHOLARSHIP

The Federation of Jewish Women's Organizations has established the "Hortense G. Moses Scholarship for the Encouragement of Hebrew Learning," to be awarded annually to the student doing the best work in elementary Hebrew. The value of the scholarship is one hundred dollars.

BALTIMORE CITY COLLEGE ALUMNI SCHOLARSHIP

The Alumni Association of the Baltimore City College offers annually a scholarship to a graduate of that school.

ENGINEERING SCHOLARSHIPS

One hundred and eight scholarships are offered to undergraduate students in the Department of Engineering, besides twenty-one to graduates of Maryland colleges.

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 in alternate years 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 special excellence in early American History.

THE TOCQUEVILLE MEDAL

The Tocqueville medal has been offered annually since 1898 by the Baron Pierre de Coubertin, of Paris, and is awarded by the University to that student who shall have delivered the best speech in a contest in public speaking held annually in the second half-year. In this contest each speaker discusses some phase of a general topic, announced some weeks previously, chosen from the field of French history, politics, or literature in the nineteenth century. The speeches are delivered in English. 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.

THE SEVERN TEACKLE WALLIS MEMORIAL PRIZE

The Severn Teackle Wallis Memorial Prize was established in 1905 by the Wallis Memorial Association of Baltimore. It consists of about fifty dollars in money, and is offered to an undergraduate or a graduate student of the University for an essay on some subject connected with Spanish Literature or History, or for some original work done in either of said subjects. Essays must be submitted *before May* 1.

THE ADAMS PRIZES AND MEDAL

The Trustees set aside annually the sum of fifty dollars for the purchase of books to be awarded as prizes to the undergraduates who are successful in the annual public debates between members of the two higher classes. These prizes, which were originally offered by the late Professor Herbert B. Adams, are known as the Adams Prizes.

A gold medal known as the Adams Medal is also awarded annually to the best speaker in the public contest participated in by members of the second-year undergraduate class.

TUITION FEES AND EXPENSES

A. IN THE PHILOSOPHICAL DEPARTMENT AND THE DEPARTMENT OF ENGINEERING

Tuition Fees

The tuition fees for students in the College of Arts and Sciences and the Department of Engineering is two hundred dollars per annum; for students registered in Graduate Courses one hundred and fifty dollars. The fee is payable in two instalments, October 1 and February 1. There is no additional charge for the use of the library and reading room.

Enrollment Fee and Caution Money

All students, excepting those in the College Courses for Teachers, the Summer Courses, and the Evening Courses, are required at entrance to pay an enrollment fee of five dollars and deposit ten dollars as caution money, the latter being repaid to them when they leave the University, if there are no charges against them.

Fees are charged, as below stated, 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.

Students withdrawing from the University, or from a course, must at once notify the several instructors concerned, as well as the Registrar; otherwise they will be liable to the full charge for tuition or laboratory work.

Athletic Fee

A fee of ten dollars is annually charged to every undergraduate during his residence in the University. In return for this charge, the student receives the use of the gymnasium, including locker and towel service, and of the Homewood field, and admission to all athletic contests at Homewood in which the University students participate. The money thus derived is devoted to defraying the expenses of the University Athletic Association.

Fees for Limited Attendance on Advanced Courses

Persons who are able to give only a portion of their time to study, and who are prepared to undertake graduate work, are permitted to attend lectures, not exceeding six weekly, on the payment of a tuition fee of ten dollars a year for each hour per week, in addition to the enrollment fee of five dollars (payable once only, at entrance) and the deposit of ten dollars as caution money. Persons attending more than six hours weekly will be required to pay the full tuition. Work in a laboratory may be taken by such persons as are not attending more than three lectures per week, upon payment, in advance, of the regular laboratory fee.

Candidates for the degree of Master of Arts or of Doctor of Philosophy, who are permitted, while in attendance at the University, to follow courses in a local Law School may,

provided their courses of lectures at this University do not exceed six hours per week, enroll under the above provision, but for not more than one year; and this year may not be that in which the candidate intends to present himself for examination.

In the College Courses for Teachers the charge for instruction is ten dollars a year for each hour of instruction, payable in semi-annual instalments. Two or three hours of laboratory work, varying with the course, are charged as one hour of recitation or lecture. Students in all other divisions of the University, paying full tuition or on scholarship appointment, are permitted to register in any courses given in the College Courses for Teachers without payment of additional fees.

The matriculation fee for the degree of Bachelor of Science is $5.00, payable at the time of matriculation.

In the Summer Courses, the tuition fee is $30.00 payment of which entitles the student to attend as many as three courses. An additional course may be attended, with the approval of the Director, on the payment of an extra fee of $12.00. (Under very exceptional circumstances, a student may register in one course only. The tuition fee in such cases will be $20.00.) The fee for the use of the tennis courts at the athletic field, including towel service, is $2.00. Additional fees are required for materials used in some of the courses. No reduction of fees will be allowed for late entrance or for withdrawal.

Checks will be received in payment of fees when drawn for the exact amount to the order of the Johns Hopkins University. For the convenience of students while in residence at the University, the Treasurer will receive out-of-town checks and drafts for payment upon collection. There is no charge for this service.

For the Evening Courses in Business Economics and for Technical Workers the fees are on the basis of ten dollars for each hour of instruction through the year.

Laboratory Charges

In Chemistry: For undergraduates and for graduates who take Chemistry as a subordinate subject, twenty-four dollars a year; for graduates and special students following Chemistry as their principal subject, and for fourth-year undergraduates in Chemistry, thirty-six dollars a year. For a half-year, 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, one-half of these amounts.

In Biology: For undergraduates and for graduates who take Zoology, Botany, 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, one-half of these amounts.

In Geology: Ten dollars a year; for a half-year, one-half of this amount. Students taking courses in Geology are expected to take part in a series of excursions, and to pay their personal expenses, which will amount to about twenty dollars.

In Engineering: For third- and fourth-year students in engineering subjects, twenty-four dollars a year (twelve dollars for a half-year); for candidates for advanced degrees thirty-six dollars a year.

In all the laboratories, a charge is made for breakage and for apparatus not returned in good condition.

Instructors and Assistants pursuing courses with reference to higher degrees will pay such fees as may be agreed upon at the time of appointment.

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.

Graduation Fees

The graduation fees are as follows, payable before the delivery of diplomas:

Doctor of Philosophy,	$10.00
Master of Arts,*	10.00
Master of Engineering,	10.00
Bachelor of Arts,	5.00
Bachelor of Engineering,	5.00
Bachelor of Science,	5.00

B. IN THE MEDICAL DEPARTMENT

The charge for tuition is two hundred and fifty dollars per annum, payable in three instalments, October 15, January 15, and March 15. There are no extra charges, except for rental of microscope, laboratory breakage, and certain expensive supplies. A deposit of ten dollars is required from each student at the time of enrollment. This "caution money" is repaid when the student leaves, if there are no charges against him.

Bills may be paid at the Dean's office, or at the office of the Treasurer of the University at Homewood.

* If a Master of Arts proceeds to the degree of Doctor of Philosophy, he will be charged but $5.00 additional for that degree.

C. IN THE SCHOOL OF HYGIENE AND PUBLIC HEALTH

The charge for tuition in the courses leading to a degree is $250 per annum, payable at the office of the Director, in three instalments, one at the beginning of each trimester. For students taking special courses the charge for each course will be arranged on application.

LIVING EXPENSES

The University has no dormitories or other living accommodations. Students may find comfortable homes in the vicinity—in boarding houses or with families.

Lists of desirable places are kept by the Secretary of the University Branch of the Young Men's Christian Association, by the Registrar of the Medical School, and by the Secretary of the School of Hygiene.

BUREAU OF APPOINTMENTS

The University Bureau of Appointments, authorized by the Trustees, is under the supervision of a committee of the faculty, the members of which are Professors E. F. Buchner, J. C. French, E. B. Mathews, C. J. Tilden, and R. V. D. Magoffin. Professor French is the Director.

The Bureau has each year secured for many resident students tutoring, reading, and clerical positions. It has placed graduating students in academic and non-academic positions. It also maintains a file in which many former students of the University are registered, and it has placed a number of these in better positions. This file is open to any former student of the University.

There are no fees attached to the services rendered by the Bureau of Appointments.

SUMMARY OF THE FACULTY

President and Professors,	67
Clinical Professors,	7
Associate Professors,	48
Associates	54
Instructors and Assistants,	143
	319
Lecturers for the year,	14
Additional Instructors in College Courses for Teachers, Courses in Business Economics, Night Courses for Technical Workers, and Summer Courses,	44

GEOGRAPHICAL DISTRIBUTION OF STUDENTS *

Maryland (Baltimore 608),	808	Delaware,	3
Pennsylvania,	53	Florida,	3
New York,	49	Mississippi,	3
Ohio,	39	Oklahoma,	3
Virginia,	38	Washington,	3
District of Columbia,	29	Montana,	2
New Jersey,	26	New Hampshire,	2
Massachusetts,	19	Oregon,	1
Illinois,	17	South Dakota,	1
Connecticut,	16	Utah,	1
Georgia,	16	Vermont,	1
North Carolina,	16	Wyoming,	1
South Carolina,	16	*Foreign Countries*	
West Virginia,	16		
Tennessee,	15	China,	10
Texas,	15	Japan,	10
California,	12	Philippine Islands,	4
Indiana,	12	Peru,	4
Colorado,	10	Canada,	3
Kentucky,	9	Czechoslovakia,	3
Rhode Island,	9	Brazil,	2
Michigan,	8	France,	2
Iowa,	7	Spain,	2
Maine,	7	Denmark,	1
Arkansas,	6	England,	1
Nebraska,	6	Guatemala,	1
Minnesota,	5	India,	1
Missouri,	5	Korea,	1
Wisconsin,	5	Mexico,	1
Alabama,	4	Nicaragua,	1
Kansas,	4	San Salvador,	1
Louisiana,	4		
North Dakota,	4		1377

* Including Graduate School, Medical School, School of Hygiene, College of Arts and Sciences, and Department of Engineering.

SUMMARY OF STUDENT ENROLLMENT, 1919-20

I.	GRADUATE SCHOOL OF ARTS AND SCIENCES:		
	1. Fellows by Courtesy,	17	
	2. Fellows:		
	University Fellows,	10	
	Adam T. Bruce Fellow,	1	
	William S. Rayner Fellow,	1	
	Edmund Law Rogers Fellow,	1	
	Du Pont Fellows,	2	
	William H. Grafflin Scholar,	1	
	3. Other Students following Graduate Courses:		
	Full-Time Students,	134	
	Part-Time Students,	54	
			221
II.	DEPARTMENT OF MEDICINE:		
	Candidates for the Degree of Doctor of Medicine,		390
III.	SCHOOL OF HYGIENE AND PUBLIC HEALTH:		
	1. Fellows by Courtesy,	2	
	2. Fellows,	6	
	3. Rockefeller Foundation Scholars,	4	
	4. Other Candidates for Higher Degrees,	21	
	5. Candidates for the Bachelor's Degree,	9	
	6. Special Students,	47	
			89
IV.	COLLEGE OF ARTS AND SCIENCES:		
	1. Candidates for the Degree of Bachelor of Arts,	350	
	2. Special Students,	16	
			366
V.	DEPARTMENT OF ENGINEERING:		
	1. Candidates for Higher Degrees,	4	
	2. Candidates for the Bachelor's Degree in Engineering or in Chemistry:		
	a. College Graduates,	5	
	b. Undergraduates,	299	
	3. Special Students,	7	
			315
VI.	COLLEGE COURSES FOR TEACHERS:		
	1. Candidates for the Degree of Bachelor of Science,	72	
	2. Special Students,	561	
			633
VII.	EVENING COURSES:		
	1. Business Economics,	704	
	2. Social Economics,	30	
	3. Technical Subjects,	338	
			1072
	Total receiving instruction, 1919-20,		3086
	Attendants on Summer Courses, 1919,		422
			3508
	Counted more than once,		367
	Net Total,		3141

GRADUATE STUDENTS BY COLLEGES *

Adelphi College,	2	Emory University,	5
Alabama Polytechnic Inst.,	1	Emory and Henry College,	2
Alabama, University of,	1	Erskine College,	2
Albright College,	1	Fargo College,	2
Allegheny College,	2	Franklin College,	1
Amherst College,	1	Franklin and Marshall Coll.,	6
Arkansas, University of,	3	Furman University,	1
Baldwin-Wallace College,	2	Gallaudet College,	1
Baltimore Medical College,	3	George Peabody College,	1
Barnard College,	1	George Washington Univ.,	6
Baylor University,	2	Georgetown College (Ky.),	1
Bethany College,	1	Georgia School of Tech.,	1
Blue Ridge College,	1	Georgia, University of,	8
Bonebrake Theol. Sem.,	1	Gettysburg Theol. Sem.,	1
Boston University,	1	Goucher College,	30
Bowdoin College,	2	Grinnell College,	5
Brown University,	8	Guilford College,	2
Bryn Mawr College,	12	Hamilton College,	2
Bucknell University,	2	Hampden-Sidney College,	5
California, University of,	8	Harvard University,	18
Carleton College,	1	Haverford College,	4
Carson and Newman College,	1	Hillsdale College,	1
Catholic Univ. of America,	6	Hiram College,	1
Central College (Mo.),	1	Holy Cross College,	1
Central Wesleyan Coll. (Mo.),	1	Hope College,	2
Charleston, College of,	2	Howard College (Ala.),	1
Chicago, University of,	6	Huron College,	1
Cincinnati, University of,	1	Illinois, University of,	2
Clark College,	3	Illinois Wesleyan Univ.	1
Clark University,	2	Indiana University,	2
Clemson College,	1	Iowa State College,	1
Colby University,	2	Iowa, State University of,	1
Colgate University,	1	Johns Hopkins University,	115
Colorado College,	5	Kansas State University,	3
Columbia University,	12	Kentucky University,	5
Cornell University,	5	Kentucky Wesleyan Coll.,	1
Davidson College,	6	Kenyon College,	1
Dayton Theol. Seminary,	1	Knox College,	1
Delaware College,	1	Lafayette College,	1
Denison University,	5	Lake Erie College,	1
Denver, University of,	2	Lake Forest College,	1
De Pauw University,	1	Lancaster Theol. Sem.,	1
Dickinson College,	3	Lebanon Valley Coll.,	3
Earlham College,	4	Leland Stanford Jr. Univ.,	3
Ellsworth College,	1	Louisiana State Univ.,	1
Elmira College,	1	Loyola College (Balt.),	4
Elon College,	1	Maine, University of,	1

* Including Graduate School of Arts and Sciences, Medical School, School of Hygiene, and Department of Engineering.

Marietta College, - - 2
Maryland, University of, - 1
Massachusetts Inst. of Tech., 4
Mercer University, - - 3
Miami University, - - 1
Michigan Agricultural Coll., 1
Michigan, University of, - 7
Middlebury College, - - 1
Minnesota, University of, - 1
Missouri, University of, - 7
Monmouth College, - - 1
Montana, University of, - 1
Mount Holyoke College, - 8
Mount St. Agnes College, - 2
Mount St. Mary's College, - 2
Mount Union College, - 1
Nashville, University of, - 1
Nebraska, University of, - 3
Newberry College, - - 1
New York City College, - 2
N. Carolina Coll. for Women, 1
North Carolina, Univ. of, - 8
North Dakota, Univ. of, - 1
North Georgia Agric. Coll., 1
Northwestern College, - - 1
Northwestern University, - 3
Notre Dame University, - 1
Oakcliffe College, - - 1
Oberlin College, - - - 9
Occidental College, - - 1
Ohio Northern Univ., - - 1
Ohio State University, - 3
Ohio University, - - 1
Ohio Wesleyan University, - 3
Oklahoma Agric. Coll., - 1
Oklahoma, University of, - 1
Otterbein University, - - 1
Pennsylvania College, - - 5
Pennsylvania State Coll., - 3
Pennsylvania, Univ. of, - 5
Pittsburgh, University of, - 1
Pomona College, - - - 1
Princeton University, - - 22
Radcliffe College, - - 5
Randolph-Macon College, - 9
Reed College, - - - 1
Rhode Island State Coll., - 1
Richmond College, - - 8
Roanoke College, - - - 3
Rochester, University of, - 6
Rock Hill College, - - 1
Rush Medical College, - 3
Rutgers College, - - - 1
Smith College, - - - 4
Sophie Newcomb Coll., - 1
South, University of the, - 1
S. Carolina Presbyterian Coll., 1
South Carolina, Univ. of, - 3
South Dakota, Univ. of, - 1
Southern California, Univ. of, 3
Southern Methodist Univ., - 1
Southwestern University, - 4
Spring Hill College, - - 1
St. Ignatius Coll. (Chicago), 1
St. John's College, - - 8
St. Louis University, - - 1
St. Mary's Seminary (Balt.), 1
Syracuse University, - - 2
Tarkio College, - - - 1
Tennessee, University of, - 4
Texas, University of, - - 9
Trinity College (Conn.), - 1
Trinity College (N. C.), - 3
Union College, - - - - 1
Union Theol. Sem. (N. Y.), - 1
Upper Iowa University, - 3
Ursinus College, - - - 1
Utah Agric. Coll., - - 1
Utah, University of, - - 1
Vanderbilt University, - 4
Vassar College, - - - 16
Virginia Military Inst., - 2
Virginia Polytech. Inst., - 2
Virginia, University of, - 9
Wabash College, - - - 3
Wake Forest College, - - 1
Washington College, - - 3
Washington University, - 1
Washington, University of, - 2
Washington & Jefferson Coll., 5
Washington & Lee Univ., - 11
Wellesley College, - - 4
Wesleyan Univ. (Conn.), - 1
West Virginia University, - 6
West Va. Wesleyan College, 1
Western College for Women, 1
Western Maryland College, - 7
Western Reserve University, 2
Westminster College (Pa.), - 1
Whitman College, - - 1
William Jewell College, - 1
William and Mary College, - 1
Williams College, - - 7
Wilson College, - - - 1
Wisconsin, University of, - 9
Wittenberg College, - - 2
Wofford College, - - - 1
Woman's Med. Coll. (Balt.), 1
Wooster, College of, - - 1
Yale University, - - 14

Foreign

Cambridge, University of,	1
Copenhagen, University of,	1
El Salvador Inst. (San Salvador),	1
Guatemala Medical School,	1
Guatemala National Inst.,	1
Hong Kong, University of,	1
Kyoto, University of,	3
Madrid, University of,	2
McGill University,	1
Nanking, University of,	1
Okoyama Coll. (Japan),	1
Oxford, University of,	1
Paris, University of,	1
Philippines, University of the,	2
Prague, University of,	3
Poitiers, University of,	1
Rio de Janeiro, Univ. of,	2
San Marcos Univ. (Peru),	1
Tokyo, University of,	4
Toronto, University of,	2
Valencia, University of,	1
Waseda University,	2
Würzburg, University of,	1

DEGREES CONFERRED, 1914-1919

The names of the recipients of degrees to June, 1913, inclusive, are printed in the *University Circular*, April, 1914.

When the institution is not named, this University or the Johns Hopkins Hospital is to be understood. (F) Indicates holders of university fellowships here. * Deceased. The principal subjects of the Doctors of Philosophy and Masters of Arts are named.

DOCTOR OF PHILOSOPHY

1914

Ashworth, John H. (F)—A. B. Emory and Henry 1906; Prof. Pa. Coll. 1914-18; Ohio Wesleyan, 1918-19—Prof. Econ. &c. Univ. of Me., Orono, Me.—(*Economics*)

Blossom, Frederick Augustus—A. B. Amherst 1898; Instr. Romance Lang. 1911-13—New York (7 E. 15th St.)—(*French*)

Bourne, Ella, Ph. B. DePauw 1893; Ph M. Mich. 1897; Instr. Mt. Holvoke 1914-16—Instr. Latin, Vassar Coll. Poughkeepsie, N. Y.—(*Classical Archaeology*)

Clark, Floyd Barzilia—A. B. Richmond 1907; Instr. Pa. State Coll. 1914-16—Prof. Polit. Sci. A. and M. Coll. College Sta. Texas—(*Political Science*)

Clarke, Walter Fieldhouse—A. B. Hampden-Sidney 1908; Asst. Univ. of Ga. 1914-16—Bureau of Chem. Washington—(*Chemistry*)

Dolley, William Lee, Jr.—A. B. Rand.-Macon 1907—Prof. Biol. Rand.-Macon, Ashland, Va.—(*Zoölogy*)

Donaldson, John Levi, Jr. (F)—S. B. Md. Agric. 1910; Instr. Mt. Morris Coll. 1914-16; Prof. Roanoke Coll. 1916-19—Prof. Hist. and Econ. Smith College, Northampton, Mass.—(*Political Science*)

Edwards, John Bowen (F)—A. B. West. Md. 1903—Prof. and Acting Dean, Dickinson Sem. 1914-15; Prof. Classics, S. W. Presb. Univ. 1915-18—Professor of Latin, Univ. of the South, Sewanee, Tenn.—(*Greek*)

Elliott, Daniel Stanley (F)—A.B. 1911, A. M. 1913—Asst. Prof. Physics, Ga. School of Tech. Atlanta—(*Physics*)

Frederick, Edwin Louis (F)—A. B. 1911; Instr. A. & M. Coll. of N. C. 1914-17—Chemist, DuPont Co. Wilmington, Del.—(*Chemistry*)

***Gain, Josiah Wesley**—S. B. Chicago 1910; Assoc. Prof. Wash. and Jefferson 1914-15—(*Mathematics*)—**Dec.* 18, 1914.

Gorton, William Stuart (F)—A.B. 1908, A. M. 1910; Instr. Mass. Inst. Tech. 1911-13; Asst. 1915-16—East Orange, N. J. (150 Harrison St.)—(*Physics*)

Gossard, Harry Clinton (F)—S. B. Ohio Northern 1908—Asst. Prof. Univ. of Oklahoma 1914-18—Instr. Math. U. S. Naval Acad. Annapolis 1918-19; Univ. of Okla., Norman—(*Mathematics*)

Hamilton, Arthur—A. B. Harvard 1907; A. M. Mich. 1910; Instr. Western Reserve 1914-16; Instr. Romance Lang. Univ. of Wisconsin 1916-18—Instr. Univ. of Ill. Urbana—(*French*)

Karrer, Enoch (F)—A. B. Univ. of Wash. 1911—Bureau of Standards, Washington, D. C.—(*Physics*)

Kitasawa, Shinjiro—A. B. Waseda 1910; A. M. Univ. of N. C. 1911; Lect. Univ. of the South 1914-15—Prof. Econ. Waseda Univ. Tokyo—(*Political Economy*)

Lashley, Karl Spencer (F)—A. B. West Va. 1910; M. S. Pittsburgh 1911; Bruce Fellow 1914-15; Johnston Scholar 1915-17; Instr. Psychol. Univ. of Minn. Fellow by Courtesy, 1917-19—(*Zoology*)

Leake, James Miller (F)—A. B. Rand.-Macon; 1902; Assoc. Bryn Mawr 1914-17; Prof. Allegheny Coll. 1917-19—Prof. Hist. Univ. of Fla., Gainesville—(*History*)

Lubs, Herbert August—A. B. Newberry 1910—Chemist, Bureau of Animal Industry, Washington—(*Chemistry*)

Lund, Elmer J.—Ph. B. Hamline 1910; Bruce Fellow 1911-14—Asst. Prof. Zool. Univ. of Minn., Minneapolis—(*Zoölogy*)

MacKenzie, Donald—A. B. 1908, A. M. 1911; Asst. Astronomy 1914-18—Bureau of Standards, Washington, D. C.—(*Physics*)

Miller, Bessie Irving (F)—A. B. Goucher 1907—Prof. Math. Rockford Coll. Ill.—(*Mathematics*)

***Richards, Annabella Elliott—A. B. Bryn Mawr 1907; Asst. Medicine 1914-15; Instr. Bryn Mawr 1917-18; Instr. Physiol. Chem. 1918-19—(*Physiological Chem.*) *Feb. 8, 1919.**

Schmeisser, Henry Christian (F)—A. B. 1908, M. D. 1912, late Assoc. Prof. Path. and Bact. Emory University, Atlanta, Ga.—(*Pathology*)

Shenton, Walter Francis—S. B. Dickinson 1907; Instr. Math. 1914-18; Instr. Naval Acad. Annapolis—(*Mathematics*)

Sirich, Edward Hinman (F)—A. B. 1906; Prof. St. John's (Md.) 1908-12—Asst. Prof. French, Univ. of Minneapolis, Minn.

Taylor, William Anthony—A. B. Rand.-Macon 1908—Chemist, DuPont Co. Wilmington, Del.—(*Chemistry*)

Trexler, Harrison Anthony (F)—Ph. B. Bellevue Coll. 1906; Prof. Univ. of Montana, 1914-18—Asst. Prof. Econ. Whitman College, Walla Walla, Wash. —(*History*)

Wolman, Leo (F)—A. B. 1911; Prof. Hobart Coll. 1914-15; Lectr. 1915-16; Instr. Univ. of Mich. 1916-17; Assoc. 1917-19—New Sch. for Social Research, New York—(*Economics*)

Young, Mabel Minerva—A. B. Wellesley 1898; A. M. Columbia 1899—Instr. Math. Wellesley Coll. Mass.—(*Mathematics*)

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1915

Armstrong, Mary Emma (F)—A. B. Olivet 1894; A. M. Mich. 1898—Instr. Latin, Goucher Coll. Balt.—(*Classical Archaeology*)

Coolidge, Walter Hatheral—Ph. B. Kenyon 1912; Prof. Georgetown Coll. Ky. 1914-16; Central Univ. Ky. 1916-18—Prof. Chem. Centre College, Danville, Ky.—(*Chemistry*)

Dunn, Grace Adelaide—Ph. B. Hamline 1909; A. M. 1914; Prof. Botany, Lake Erie Coll. 1917-18—Bureau of Plant Industry, Washington.—(*Botany*)

Gorton, Arthur Feddeman (F)—A. B. 1912, A. M. 1914: Instr. Univ. of Minn. 1915-16; Instr. 1916-17—Physicist, Toledo, O.—(*Physics*)

Greenfield, Kent Roberts (F)—A. B. West, Md. 1911; Instr. Hist. Delaware Coll. 1915-20—Asst. Prof. (*elect*), Yale Univ.

Holmes, James Eugene Levering (F)—A. B. 1912—Chemist, DuPont Co. Wilmington, Del.—(*Chemistry*)

Hopkins, Marion Byrd—A. B. 1912—Chemist. City Board of Health, Balt. —(*Chemistry*)

Hubbert, Helen B. (F)—A. B. Missouri Valley 1907; Adj. Prof. Psychol. Rand.-Macon Woman's Coll. 1915-17—401 S. 51st St., Phila.—(*Psychology*)

Hulburt, Edward Olson—A. B. 1911— Instr. West. Reserve Univ. 1915-17; Instr. Physics—(*Physics*)

Lloyd, Howard Huntley—A. B. 1912-14; Lectr. 1916-17—Prof. Chem. Goucher Coll. Balt.—(*Chemistry*)

McLean, Forman Taylor—Yale (Ph. B. 1907, M. F. 1908)—Instr. Plant Physiol. Univ. of Philippines, Los Banos —(*Plant Physiology*)

Middleton, Austin Ralph (F)—A. B. 1910—Assoc. Prof. Zool. Univ. of Louisville, Ky.—(*Zoology*)

Miller, Ellis (F)—A. B. 1912. Instr. Chem. 1915-18, Assoc. 1918-19—Du Pont Co. Wilmington, Del.—(*Chemistry*)

Moseley, Thomas Addis Emmet—A. B. 1907; Instr. Princeton 1915-16; Prof. Wash. & Jefferson Coll. 1916-19—Prof. Romance Lang. Va. Mil. Inst. Lexington—(*Italian*)

Mullikin, Richard Nicholas—A. B. 1912 —Chemist, DuPont Co. Wilmington, Del.—(*Chemistry*)

Musselman, Amos Sentman—A. B. Pa. Coll. 1912—Chemist, Standard Oil Co., Whiting, Ind.—(*Chemistry*)

Overbeck, Robert Milton (F)—A. B. 1909—U. S. Geol. Survey, Washington—(*Geology*)

Paulus, Max G. (F)—A. B. 1912—Chemist, Standard Oil Co., Whiting, Ind.—(*Chemistry*)

Pratt, Lyde Stuart—A. B. Bowdoin 1912: Assoc. Prof. Univ. of Va. 1915-17—Chemist, DuPont Co. Wilmington, Del—(*Chemistry*)

Putnam, Willis S.—S. B. Worcester Polytech. 1889; Prof. Women's Coll. of Del. 1915-16—Instr. Chem. Cooper Union, N. Y.—(*Chemistry*)

Reeside, John Bernard, Jr. (F)—A. B. 1911—U. S. Geol. Survey, Washington—(*Geology*)

Rogers, Lindsay (F)—A. B. 1912; LL. B. Univ. of Md. 1915—Assoc. Prof. Polit. Sci. Univ. of Va.—(*Political Science*)

Sehrt, Edward Henry (F)—A. B. 1911; Instr. Delaware Coll. 1915-17; Lectr. Bryn Mawr 1917-18; Prof. Washington Coll. 1918-20—Johnston Scholar (*elect*)—(*German*)

Shields, Emily Ledyard (F)—A. B. Bryn Mawr 1905—Instr. Latin, Smith Coll. Northampton, Mass.—(*Classical Archaeology*)

Shive, John Wesley (F)—Ph. B. and A. M. Dickinson 1906—Plant Physiologist, Agric. Exper. Sta. New Brunswick, N. J.—(*Plant Physiology*)

Sousley, Clarence Piersall—A. B. Ky. Wesleyan 1909; Instr. Mt. St. Mary's Coll. 1915-16—Assoc. Prof. Math. State Coll. Pa.—(*Mathematics*)

Stocking, Ruth Jennings (Mrs. Vernon Lynch) (F)—A. B. Goucher 1910; Prof. Agnes Scott Coll. 1915-17; Asst. Prof. Carnegie Inst. Pittsburgh 1917-18; Instr. Protozool. Sch. of Hygiene 1918-19—(*Zoölogy*)

Wallis, Benjamin Franklin—A. B. 1910; Instr. Bryn Mawr 1915-16, Lehigh 1916-17—Geologist, Guayaquil, Ecuador—(*Geology*)

Watkins, Charles—A. B. Wash. and Lee 1909; M. S. Vanderbilt 1911—Prof. Chem. Carnegie Inst. Pittsburgh—(*Chemistry*)

Weyforth, William Oswald, Jr.—A. B. 1912; Instr. Western Reserve Univ. 1915-17—Assoc. Econom.—(*Economics*)

Yokoyama, Tomikichi—Ph. B. Kansas City Univ. 1909; B. D. Westminster (Md.) Theol. Sem. 1910—Bureau of Agriculture, Seoul, Korea—(*Political Science*)

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1916

Albright, William Foxwell (F)—A. B. Upper Iowa 1912; Rayner Fellow 1914-17, Instr. Semitic 1916-17, Johnston Scholar 1917-18—Rayner Fellow 1918-20—(*Assyrian*)

Blocher, John Milton, Jr.—S. B. Pa. Coll. 1913—Prof. Chem. Baldwin-Wallace Coll. Berea, O.—(*Chemistry*)

Brown, William Norman (F)—A. B. 1912; Harrison Research Fellow Univ. of Pa. 1916-19—Johnston Scholar—(*Sanskrit*)

Brown, William Stephen—E. E. Rensselaer Polytech. 1913—Elec. Engr. Pittsburgh (16th and Pike Sts.)—(*Electrical Engineering*)

***Burton, John Marvin** (F)—A. B. Rand.-Macon 1909; Prof. Romance, Millsaps Coll. 1916-18—(*French*)—**Oct.* 5, 1918 (*in France*).

Churchill, Edward Perry (F)—A. B. Iowa Univ. 1907—Scientific Asst. Bureau of Fisheries, Washington—(*Zoölogy*)

Connolly, Gerald Charles—A. B. Rock Hill 1912—Chemist, Davison Chem. Co. Balt.—(*Chemistry*)

Dickey, Robert William (F)—Wash. and Lee (S. B. 1910, A. B. 1911): A. M. 1915—Assoc. Prof. Physics, Wash. and Lee, Lexington, Va.—(*Physics*)

Hoxton, Llewellyn Griffith—Univ. of Va. (A. B., B. S., A. M., 1900, now Prof. Physics)—(*Physics*)

Hutchinson, John Foster—S. B. S. C. Mil. Coll. 1913; A. M. Charleston 1914—Chemist, Kenvil, N. J.—(*Chemistry*)

Johnson, Buford Jennette—A. B. La Grange (Ga.) 1905; A. M. 1915; Peabody Scholar 1915-16—Assoc. Prof. (*elect*), Psychol.—(*Education*)

Kelly, Caleb Guyer—A. B. 1908—Educational Missionary, Tunis, N. A.—(*History*)

Kimball, John Willard—S. B. Colby 1912; Asst. Chem. Univ. of Me. 1916-18—Chemist, DuPont Co., Arlington, N. J.—(*Chemistry*)

Lilly, Marie Loretto (F)—A. B. Notre Dame (Md.) 1900; A. M. 1914; Instr. Mt. St. Agnes Coll. 1916-17—Instr. Engl. Dominican Coll. San Rafael, Cal.—(*English*)

Loring, Mildred West (F)—Univ. of Washington (A. B. 1912, Fellow 1912-13, A. M. 1913); Sarah Berliner Fellow, 1916-17—Michael Field Medical Laboratory, Long Island, N. Y.—(*Psychology*)

Markel, Paul D—S. B. Pa. Coll. 1913.—Chemist, Port Arthur, Tex.—(*Chemistry*)

McCall, Arthur Gillett—Ohio State (B. Sc. 1900, late Prof. Agronomy)—In charge of soil investigations, Md. State Coll. College Park—(*Plant Physiology*)

Millspaugh, Arthur Chester (F)—A. B. Albion 1908; A. M. Univ. of Ill. 1910; Prof. Whitman Coll. 1916-17; Instr. 1917-18—Augusta, Mich.—(*Political Science*)

Morimoto, Kokichi—Sapporo Univ. 1901—Asst. Prof. Economics, Imperial Univ. Sapporo, Japan—(*Economics*)

Murnaghan, Francis Dominic—Nat. Univ. of Ireland (A. B. 1913, A. M. 1914); Instr. Rice Inst. 1916-18—Assoc. Applied Math.—(*Mathematics*)

Musselman, John Rogers (F)—A. B. Pa. Coll. 1910; Instr. Math. Univ. of Ill. and Wash. Univ. 1916-20—Associate (*elect*)—(*Mathematics*)

Myrick, Raymond Thompson (F)—S. B. Earlham 1912—Chemist, Standard Oil Co, Whiting, Ind.—(*Chemistry*)

Ordeman, George Frederick—Wash. and Lee (S. B. 1912, now Assoc. Prof. Chem.) Lexington, Va.—(*Chemistry*)

Owens, Oscar Lee—A. B. Richmond 1898; A. M. 1913—(*Political Science*)

Pardee, Arthur McCay—A. B. Wash. and Jeff. 1907; Prof. Tarkio Coll. 1918—Prof. Chem. Wash. and Jefferson, Washington, Pa.—(*Chemistry*)

Rawlins, Charles Henry, Jr. (F)—Ph. B. Dickinson 1910; Instr. Delaware Coll. 1916-18—Instr. Naval Acad. Annapolis—(*Mathematics*)

Reeves, Frank—A. B. West Va. 1911. —U. S. Geol. Survey, Washington—(*Geology*)

Ruth, Thomas DeCoursey (F)—A. B. 1906; Instr. Princeton 1912-15; Lectr. Bryn Mawr 1916-17; Headmaster, St. Paul's School, Balt. 1917-18—Amer. Red Cross, Washington—(*Latin*)

Sachs, John Harrison—S. B. Pa. Coll. 1910—Chemist, DuPont Co. Wilmington, Del.—(*Chemistry*)

Smelser, David Paul, Jr.—A. B. New Windsor 1912—New York (141 E. 44th St.)—(*Economics*)

Starck, Adolf Ludwig Taylor (F)—A. B. 1911; Instr. Smith Coll. and New York Univ.—Instr. (*elect*), Harvard—(*German*)

Steinbach, Reuben (F)—A. B. 1913.—Instr. Rabbinical Sem. N. Y.—(*Hebrew*)

***Stockett, Joseph Noble, Jr.**—A. B. 1911; Instr. Econ. Dartmouth 1916—(*Economics*) **Sept.* 28, 1916.

Van Epps, George Dudley—S. B. Ga. Tech. 1913—Chemist, Port Arthur, Tex.—(*Chemistry*)

Weglein, David Emrich—A. B. 1897; A. M. Columbia 1912 — Princ. West High Sch. Balt; Instr. Education—(*Education*)

Woodring, Wendell Phillips (F)—A. B. Albright 1910—U. S. Geol. Survey, Washington—(*Geology*)

Wroth, Benjamin Blackiston—A. B. Wash. (Md.) 1908; Instr. Ga. Tech. 1916-18—Acting Head, Dept. of Chem. Earlham Coll. 1918-19—Asst. Prof. Sch. of Tech. Atlanta, Ga.—(*Chemistry*) (37)

1917

Bramble, Charles Clinton (F)—Ph. B. Dickinson 1912—Instr. Math. Naval Acad. Annapolis—(*Mathematics*)

Branham, Grace Bagnall—A. B. Bryn Mawr 1910; A. M. 1916—Instr. Rosemary Hall, Greenwich, Conn.—(*English*)

Campion, John Leo—A. M. Columbia 1912; Johnston Scholar 1914-15; Instr. German, Univ. of N. C. 1916-18—6 Morningside Av. New York—(*Germanic Philology*)

Child, John Allan—A. B. Harvard 1899—Instr. Romance Lang. Univ. of Chicago—(*Italian*). [*Degree conferred Nov.* 6, 1917)

Cox, Leslie Cornelius—A. B. Toronto 1913; Rogers Fellow 1914-17—Asst. Prof. Classics, Hamline Univ. St. Paul, Minn.—(*Latin*)

Dotterer, Ray Harbaugh—Ph. B. Franklin and Marshall 1906; A. M. 1916—Clergyman, State College, Pa.—(*Philosophy*)

Emmet, Boris—A. B. Wisconsin 1913—Labor Manager, Schloss Bros. & Co. Balt.—(*Economics*)

Faber, Edgar McCreary—A. B. Pa. Coll. 1914—Chemist, DuPont Co. Wilmington, Del.—(*Chemistry*)

Fox, Early Lee—A. B. Randolph-Macon 1909; A. M. 1914—Prof. History, Randolph-Macon College, Ashland, Va. —(*History*)

Freas, Raymond—A. B. Wittenberg 1906; Instr. Chem. Univ. of Va. 1917-18—Instr. Tulane Univ., New Orleans, La.—(*Chemistry*)

Free, Edward Elway—A. B. Cornell 1906—(*Plant Physiology*)

Gordon, Neil Elbridge—Ph. B. Syracuse 1911—Asst. Prof. Chem. Goucher Coll. Balt. 1917-19; Md. State College, College Park—(*Chemistry*)

Hastings, Walter Scott—A. B. Princeton 1910; Instr. French 1916-17 — Mod. Lang. Master Tome School, Port Deposit, Md.—(*French*)

Havens, George Remington (F)—A. B. Amherst 1913, Instr. Indiana Univ. 1917-18—Instr. Ohio State Univ. Columbus—(*French*)

Hildebrandt, Frank Merrill—A. B. 1913—Research Fellow, Mellon Inst. Pittsburgh, Pa.—(*Plant Physiology*)

Hobbs, Allan Wilson—A. B. Guilford 1907, Haverford 1908—Instr. Math. Univ. of N. C. Chapel Hill—(*Mathematics*)

Holtzclaw, Henry Fuller—A. B. Arkansas Univ. 1913—Moro, Ark.—(*Economics*)

Howell, Roger (F)—A. B. 1914—Atty. at Law, Balt. (Calvert Bldg.)—(*Political Science*)

Johnson, Elizabeth French—A. B. Goucher 1911; A. M., 1916—Instr. German, Sweet Briar Coll. Sweet Briar, Va.—(*German Literature*)

Johnson, Harry Isaac—A. B. Roanoke 1912—Instr. St. Louis Med. School, St. Louis—(*Chemistry*)

Johnston, Earl Steinford—Ph. B. Dickinson 1913—Assoc. Plant Physiologist, Md. State Coll. College Park—(*Plant Physiology*)

Kanton, Ethel Dorothea—A. B. Goucher 1911; A. M., 1913—Instr. State Normal. Coll. Greensboro, N. C.—(*English*)

Lauchheimer, Malcolm Horace—A. B. 1914—Balt. (2122 Bolton St.)—(*Political Science*)

Lyons, Edward—S. B. Washington and Lee 1912—Chemist, Picatinny Arsenal, Dover, N. J.—(*Chemistry*)

McCobb, Arthur Lewis—A. B. Bowdoin 1905; A. M., Harvard 1910; Instr. German, Mass. Inst. of Tech. 1917-18—(*Germanic Philology*)

Meggers, William Frederick—A. B. Ripon 1910; A. M. Wisconsin 1916—Physicist, Bureau of Standards, Washington—(*Physics*)

Minter, Clarke Cothran—S. B. Davidson 1913—Balt. (2016 Mt. Royal Ter.)—(*Chemistry*). [*Degree conferred Feb.* 22, 1917]

Mohler, Fred Loomis—A. B. Dickinson 1914; A. M. 1916—Physicist, Bureau of Standards, Washington—(*Physics*)

Rabinowitz, Elias N.—A. B. Haverford 1903; Rayner Fellow 1913-14—(*Hebrew*). [*Degree conferred Feb.* 22, 1917]

Robinson, Edna Moore (F)—A. B. Chicago 1907—Prof. English, Whitworth Coll., Spokane, Wash.—(*English*)

Robinson, Jesse Squibb—A. B. Allegheny 1911—Prof. Simpson Coll. Indianola, Iowa—(*Economics*)

Rogers, Thomas Hunton—A. B. Centre 1914—DuPont Co., Wilmington, Del.—(*Chemistry*)

Root, Francis Metcalf (F)—A. B. Oberlin 1911; Bruce Fellow 1915-17; Teaching Fellow, Sch. of Hygiene—(*Zoölogy*)

Schaffer, Aaron (F)—A. B. 1914—Asst. 1916-19—Balt. (2566 McCulloh St.)—(*German Literature*)

Sease, Virgil Bernard (F)—A. B. Newberry 1909—Chemist, DuPont Co. Arlington, N. J.—(*Chemistry*)

Simpson, Kemper—A. B. 1914—Federal Trade Com., Washington—(*Economics*)

Thom, William Taylor, Jr. (F)—S. B. Wash. and Lee 1913—U. S. Geol. Survey, Washington—(*Geology*)

Tottingham, William Edward—S. B. Mass. Agric. 1903; M. S. Wisconsin 1908—Asst. Prof. Agric. Chem. Univ. of Wis. Madison—(*Plant Physiology*)

Trelease, Sam Farlow—A. B. Washington Univ. 1914—Instr. Coll. of Agric. Manila, P. I.—(*Plant Physiology*)

Voss, Vivian—A. B. Transvaal Univ. Coll. 1913; A. M. 1916—(*Physics*)

Wade, Bruce—S. B. Vanderbilt 1913—State Geol. Survey, Nashville, Tenn.—(*Geology*)

Warren, Howard Crosby—A. B. Princeton 1899—Stuart Prof. Psychol. Princeton—(*Psychology*)

Whiteford, Gilbert Hayes—S. B. Md. Agric. 1897; A. M. Columbia 1912—Instr. Chem. Colo. Agric. Coll. Ft. Collins—(*Chemistry*)

Williams, Ralph Coplestone—A. B. 1908—Asst. Prof. Ohio State Univ. Columbus—(*French*)

Wilson, Lucy (F)—A. B. Wellesley 1909—Instr. Psychol. Wellesley; Waban, Mass.—(*Physics*) (45)

1918

Bagby, English—A. B. Princeton 1913—Asst. Prof. Va. Mil. Inst. Lexington—(*Psychology*)

Bloomhardt, Paul Frederick (F)—A. B. Pa. Coll. 1909; Gettysburg Theol. Sem. 1912—(*Hebrew*)—[*Degree conferred Feb.* 22, 1918]

Child, John Allan (F)—A. B. Harvard 1899—Instr. Romance Lang. Univ. of Chicago—(*Italian*)—[*Degree conferred Nov.* 6, 1917]

Cohen, Teresa (F)—A. B. Goucher 1912; A. M. 1915; Alice Freeman Palmer Fellow 1918-19—Balt. (1709 Linden Ave.)—(*Mathematics*)

Dorsey, George Edwin (F)—A. B. 1914—Geologist, Tulsa, Okla. (908 N. Main St.)—(*Geology*)

Fawcett, Howard Samuel—B. S. Iowa State Coll. 1905; M. S. Fla. Univ. 1908; Johnston Scholar, 1916-17—Assoc. Prof. Plant Physiol. Univ. of Cal., Riverside—(*Plant Physiology*)

Helm, Emerson Bennette—B. S. Fla. Univ. 1915—Chemist, Cleveland, O. (1133 E. 71st St.)—(*Chemistry*)

***Lynch, Vernon**—A. B. 1914, Asst. Physiol. 1916-18—(*Physiology*)—**July* 25, 1918—[*Degree conferred Feb.* 22, 1918]

Mitchell, John Broadus (F)—A. B. S. C. Univ. 1913—Instr. Pol Econ.—(*Economics*)—[*Degree conferred Feb.* 22, 1918]

Taliaferro, William Hay—B. S. Va. 1915; Bruce Fellow 1917-18—Instr. Protozoology, School of Hygiene—(*Zoölogy*)

Tansill, Charles Callan—A. B. Cathoiic Univ. of Amer. 1912, A. M. 1913, Ph. D. 1915—(*History*)

Thalheimer, Alvin—A. B. Harvard 1914; Instr. 1919-20—Balt. (2400 Eutaw Pl.)—*Philosophy*) (12)

1919

Burka, Samuel Moses—A. B. 1913, A. M. 1916; Physicist, Bureau of Standards, Washington—(*Chemistry*)

Carter, James Treat—A. B. Oberlin 1914—Atty. at Law, Balt. (901 Md. Trust Bldg.)—(*Political Sci.*)

Dryden, Hugh Latimer (F)—A. B. 1916, A. M. 1918—Bureau of Standards, Washington—(*Physics*)

Espino, Rafael B.—B. Agric. University of the Philippines, 1915—Asst. Prof. Agronomy, Univ. of Philippines—(*Plant Physiol.*)

Frehafer, Mabel Katherine—A. B. Bryn Mawr 1908, A. M. Wisconsin 1909—Bureau of Standards, Washington—(*Physics*)

Harn, Edith Muriel (F)—A. B. Goucher College 1915—Fellow by Courtesy.—(*German Lit.*)

Insley, Herbert—S. B. Hamilton College 1914—U. S. Geological Survey, Washington—(*Geology*)

Kennedy, Cornelia—A. B. University of Minnesota, 1913; M. S. University of Wisconsin 1916—Univ. Farm, St. Paul, Minn.—(*Bio-Chemistry*)

Sears, Julian Ducker—A. B. Johns Hopkins University 1913—U. S. Geol. Survey, Washington—(*Geology*)

Strickler, Robert Parvin—A. B. West Virginia University 1907—Inst. in Greek—(*Greek*)

Strube, Claire M. M.—A. B. Goucher College, 1916—Grad. Student—(*German Lit.*)

Wanlass, William Lawrence—A. B. Geo. Washington University, 1915 and A. M. 1916—Prof. Econom. Union College, Schenectady, N. Y.—(*Political Sci.*) (12)

1920

(*February* 23)

Helfrich, Oregon Benson (F)—A. B. 1916—Chemist, DuPont Co. Arlington, N. J.—(*Chemistry*)

McGavack, John, Jr. (F)—A. B. Hampden-Sidney 1913—Research Asst.—(*Chemistry*)

Judefind, William Lee—A. B. West. Md. 1915—Chemist, Davison Chem. Co. Balt.—(*Chemistry*)

Kramer, Richard Lee—A. B. Wabash 1913—Chemist, DuPont Co. Wilmington, Del.—(*Chemistry*) (4)

Doctor of Medicine

1914

Batten, Grover A.—A. B. Washington and Lee 1908; R. H. O.* 1914-15—Physician, Honolulu, T. H.

Bayne-Jones, Stanhope—A.B. Yale 1910; R. H. O. 1914-15; Rockefeller Fellow and Asst. Res. Path. 1915-16; A. M. 1917—Assoc. Bacteriol.

Belt, Mabel—A. B. Goucher 1910—Physician, Balt. (Arundel Apts.)

Bettman, Ralph Boerne—A. B. Williams 1910—Fellow Mayo Clinic, Rochester. Minn. 1917-18; Physician, Chicago, Ill.

Boehm, Julius Benjamin—S. B. St. Louis Univ. 1910—Res. Surg. Greenpoint Hosp. Brklyn.

Bogle, Kate Breckenridge (Mrs. S. R. Karpeles)—A. B. Goucher 1909—Cont. Surg. U. S. A.; Physician, Washington (1207 Columbia Rd.)

du Bray, Ernest Speers—A. B. Cincinnati 1910.

Brush, Nathaniel Hawley—A. B. 1909—Santa Barbara, Calif.

Carroll, Francis Patrick—S. B. Trinity (Conn.) 1911—City Physician, Bridgeport, Conn.

Carter, David Wendel, Jr.—A. B. Southwestern 1909.

Child, Dorothy—A. B. Bryn Mawr 1910; Lectr. Hygiene and Phys. to Women Students, U. of Kans. 1916-17—Amer. Red Cross, France.

Clark, Mildred (Mrs. P. W. Clough)—A. B. Wellesley 1910; R. H. O. 1914-15; Asst. Res. Phys. 1915-17—Jacobi Fellow; Instr. Med.

Colwell, Howard Spencer—S. B. Colgate 1910.

Connor, Charles Edward—A. B. Indiana 1910—Physician, Terre Haute, Ind. (1318 S. 4th St.)

Crawford, Robert Hope—S. B. Davidson 1910—Physician, Rock Hill, S. C.

Davis, Isaac—A. B. Harvard 1910—Physician, Pittsburgh (2031 Centre Av.)

Dodson, Ralph Moore—A. B. Oregon 1910.

Donaldson, John Calvert—Ph. B. Yale 1910—Instr. Anat. Univ. of Cincinnati.

Dornblaser, Harry Bright—A. B. Wittenberg 1907—Physician, Springfield, Ohio.

Downs, Chester Arthur—A. B. Oregon 1910—Physician, Portland, Ore. (297 Fargo St.); 1st Lieut. M. C.

Ducasse, Edmond Frederic—A. B. Washington 1910.—Medical Aid, French Army.

Duffy, William Core—A. B. Wake Forest 1910; Asst. in Pathol. 1915-16; Asst. Res. Surg. 1916-18—Yale Univ. Med. Sch., New Haven, Conn.

Duncan, John Baxter—A. B. Mercer 1910—Physician, Elyria, Ohio.

Dunn, George R.—Ph. B. Hamline 1910; R. H. O. 1914-15—Asst. Res. Surg.

Eaton, Avis Chippewa—A. B. Wellesley 1909—Res. Surg. Royal Hosp. for Chldn. Edinburgh, Scotland.

Emrick, Marion W.—Ph. B. Franklin and Marshall 1910—Asst. Roentgenologist, Harrisburg Hosp. and Physician, Harrisburg, Pa.

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* Resident House Officer, Johns Hopkins Hospital.

Englar, Thomas Shepherd—A. B. Western Maryland 1910—Phys. Medford, Md.

Evans, Frank Alexander—A. B. Washington and Jefferson 1910; R. H. O. 1914-15—Asst. Res. Phys. and Asst. in Med.

Fansler, Walter A.—A. B. Missouri 1911; Instr. Marquette Univ. 1914-15—Instr. Surg. U. of Minn.; Asst. City Phys. Minneapolis.

Fechtig, Allen Garthwright—A. B. Univ. of South 1910.

***Fergusson, James Grant**—A. B. Stanford 1908—Interne, Roosevelt Hosp. N. Y.—**In action (in France), July* 14, 1916.

Fleming, LeRoy Newton—A. B. Miami 1910; Asst. in Surg. 1914-15; Asst. in Physiol. Harvard—Physician, Detroit (329 Hamilton Av.)

Flexner, Morris—A. B. Michigan 1910—R. H. O. 1914-15—Physician, Louisville, Ky. (948 S. 2d St.)

Frazee, Mary Louise (Mrs. J. L. Tower)—A. B. Goucher 1908—Asst. Phys. Bloomingdale Hosp. White Plains, N. Y.

Gardner, Harold Bearce—S. B. Grinnell 1910—Physician, Pittsburgh, Pa.

Grave, Floyd—S. B. Carlton 1908—

Hagan, Hugh Johnson—A. B. Washington and Lee 1910—Physician, Roanoke, Va.

Hain, Raymond Fisher—S. B. Bucknell 1910—Asst. Res. Brady Clinic.

Hall, Raymond Confer—S. B. Wesleyan 1909—Interne, St. Ann's Hosp. and Phys. Anaconda, Mont.

Hampton, Henry Hunton—S. B. Tennessee 1903—Instr. Gynecol.; Res. Gynecol.

Harrell, Bryant Eugene—A. B. Randolph-Macon 1907—Physician, Norfolk, Va.

***Haupt, Walter Clark**—Ph. D. 1908—Asst. Phys. Butler Hosp. Providence, R. I. 1914-15; Asst. Neurol. Inst. of N. Y. 1915-16.—**June* 3, 1917.

Hodge, Mary Ashmun—A. B. Stanford 1903—Instr. in Clin. Med.; Dispensary Physician.

Hooper, Charles Warren—A. B. Kansas 1911—Asst. Prof. Resch. Med. Hooper Fndn. Univ. of Cal. San Francisco.

Huffman, Lyman Foster—S. B. Ohio Wesleyan 1910—Physician, Cleveland (306 Osborn Bldg.)

Hutchison, James Elder—A. B. Ohio State 1909—Physician, Hartford, Conn. (36 Pearl St.)

Ingraham, Ruth—A. B. Vassar 1907—Roentgenologist, Brooklyn Hosp. N. Y.

Jack, William David—A. B. Creighton 1908—Asst. Res. Brady Clinic.

Jones, Walter Falke—A. B. Hamilton 1908.

Keister, William Shirey—A. B. Roanoke 1907—Health Officer, Montgomery, Ala.

Kelly, Claude Currie—S. B. Davidson 1909.

Ketcham, Clarence Searle—B. L. Rutgers 1910.

King, John Theodore, Jr.—A. B. Princeton 1910; R. H. O. 1914-15; Asst. Res. Phys. 1915-16—Instr. in Clin. Med.; Physician, Balt.

***Krake, Leigh Seward**—A. B. Nebraska 1907—**July* 9, 1914.

McGill, Caroline—Missouri (A. B. 1904; Ph. D. 1908)—Pathologist, Murray Hosp. Butte, Mont.

Martin, Floyd August—Missouri (A. B. 1911, Instr. 1914-15); Asst. Supt. State Hosp. No. 1, Fulton, Mo. 1915-16.—Lab. Diag. Detroit Clin. Lab.

Marvel, Norman Clyde—A. B. 1910—Physician, Balt. (3311 Abell Av.)

Meyer, Jerome—S. B. Alabama 1908—Pediatrician, Tenn. Coal & Iron Co. Birmingham, Ala.

Mosiman, Roscoe E.—S. B. Huron 1910—Asst. Res. Surg. Lakeside Hosp. Cleveland.

Moyle, Robert Davie—A. B. McMaster 1908—Toronto (83 Aisquith Av.)

Ormond, John Kelso—A. B. Princeton 1906; R. H. O. 1914-15—Asst. in Surg. Ford Hosp. Detroit.

Plumer, John Shaffer—S. B. Pittsburgh 1909—Asst. Path. Singer Mem. Resch. Lab. Pittsburgh.

Redelings, Leslie Hall—S. B. Northwestern 1909; R. H. O. 1914-15—Phys. Marinette, Wis.

Reichard, John Davis—A. B. Trinity (Conn.) 1910—Asst. Surg. U. S. P. H. S. Marine Hosp. Balt.

Reinhard, Ferdinand Oscar Wolfgang—A. B. 1908—Physician, Balt. (1400 Linden Av.)

Robinson, Aaron—A.B. 1910—Annapolis (8 West St.)

Rockwood, Ethel May—S. B. Simmons 1909—Phys. Hosp. Cottages, Baldwinville, Mass.

Rothholz, Alma Sophia—A. B. Smith 1910; R. H. O. 1914-15; Asst. in Med. 1915-16.—Asst. Disp. Phys.; Asst. Clin. Med.; Phys. Balt.

Saltzstein, Harry—Ph. B. Yale 1910—Physn. Milwaukee, Wis.

Sewell, John Holt—E. E. Texas 1908—Physician, Ft. Worth, Tex.

Shaffer, Floyd Elmer—A. B. Lebanon Valley 1910; Res. Phys. German Hosp. Phila. 1915-17.—Asst. Surg. Bethl'm Steel Co., So. Bethlehem, Pa.

Sherrick, Joseph Leslie—A. B. Monmouth 1908; A. M. Yale 1910—Physician, Monmouth, Ill.

Sherry, Leroy Briggs—A. B. Illinois 1910—Physn. Pasadena, Calif.

Silvester, Richard Lee—S. B. Md. Agric. 1909—Asst. Surg. U. S. N. Washington.

Stubbs, Landon Elwood—A. B. Randolph-Macon 1910—Physician, Gloucester, Va.

Szymanski (Schmitt), John Joseph—A. B. St. John's (Brooklyn) 1910.

*__Taylor, Herbert Douglas__—A. B. St. John's 1910; Prof. Bacteriol. and Pathol. Wake Forest Coll. 1914-15; Assoc. Path. and Bact. Rockefeller Inst. N. Y.; 1st Lieut. M. C.—**Oct.* 8, 1918.

Utzinger, Otto E.—A. B. Stanford 1910—Surgeon, Ithaca, N. Y.

Vanneman, Joseph Stephens—Ph. B. Dickinson 1910—Physn. Princeton, N. J.

Van Valzah, Laurie—A. B. Oregon 1910—

Venable, John Manning—A. B. North Carolina 1910—Surg. San Antonio, Tex.

Webb, Joseph—A. B. Wittenberg 1910; R. H. O. 1914-15.

Webb, Roscoe Clayton—A. B. Minnesota 1911.

Webster, Jerome Pierce—A. B. Trinity (Conn.) 1910; R. H. O. 1914-15—Holderness Sch., Plymouth, N. H.

Wilson, Harry Eugene—A. B. St. John's 1910—Physn. Balt.

Wolff, Sylvain Beer—S. B. La. State 1910—Physician, Opelousas, La.

Wood, Evans Beauchamp—S. B. Ala. Polytech. 1907—Prof. Therap. Emory Univ. and Physician, Atlanta, Ga. (505 Candler Bldg.)

Woods, Alan Churchill—A. B. 1910—Physn. Balt.

Wynne, Herbert Maxwell Nash—S. B. Bethany 1906; R. H. O. 1914-15; Res. Gynecol. & Instr. in Gyn. 1915-18—Physn. Bethany, W. Va.

Zadek, Isadore—S. B. Ala. Polytech. 1910; R. H. O. 1914-15—Physn. New York.

Smith, John Frederick—A. B. Lake Forest 1907—[*Degree conferred Feb.* 22, 1915.]

Class Secretary—John T. King, Jr., 1425 Eutaw Pl.

(91)

1915

Adair, Frank Earl—A. B. Marietta 1910—House Surg. New York Hosp.

Andrew, Harvey Montreville—S. B. Waynesburg 1911.

Armstrong, Charles—S. B. Mt. Union 1910—Asst. Surg. U. S. P. H. S.

Atchley, Dana Winslow—S. B. Chicago 1911; R. H. O. 1915-16—Instr. Med. Coll. P. and S. N. Y.; Phys. Presby. Hosp. N. Y. 1916-19; Instr. in Med. and Asst. Physn. J. H. H.

Aull, John—A. B. Virginia 1911—Physician, Kansas City (900 Rialto Bldg.)

Bacon, Arthur Maynard—A.B. West. Md. 1911—Physician, Ardmore, Okla.

Baldwin, John Cook—S. B. Hamilton 1910—Asst. Disp. Ped.; Physician, Balt. (4803 York Rd.)

Batchelor, Marjorie Dietz—A. B. Wellesley 1907; Instr. Med. 1915-18—Palmerton Hosp. Pa.

Batchelor, Roger Putnam—A. B. Wisconsin 1911; Instr. & Asst. Res. Surg. 1915-18—Surg. in chief, Palmerton Hosp. Pa.

Bates, Harold Edwards—A. B. Oregon 1910—Physcian, London Hosp., Eng.

Bean, Leo Chapman—Ph. B. Ohio Univ. 1911; Asst. Pathol. Wash. Univ. 1917-18—Instr. Med. *ibid.*, 1918-19; Physician, Gallipolis, Ohio.

Belden, Louis de Keyser—S. B. North Carolina 1910.

Braunlich, George—Ph. B. Chicago 1910—Phys. Davenport, Iowa.

Burket, Walter C.—S. B. Chicago 1911; A. B. Baker, 1912; R. H. O. 1915-16; Asst. Res. Surg. 1916-17—Physician, Kingman, Kan.

Christopher, Frederick—S. B. Northwestern 1911—House Surg. New York Hosp. 1915-18; Physn. Chicago, Ill.

*__Clark, Admont Halsey__—A. B. Oberlin 1910; Instr. Assoc. Assoc. Prof. Pathol. 1915-18—**Oct.* 13, 1918.

Clarke, Jefferson Hamer, Jr.—A. B. Haverford 1911—Interne, Samaritan Hosp.; Instr. Med. Temple Univ. Philadelphia.

Clausen, Samuel Wolcott—A. B. Williams 1910; R. H. O. 1915-16; Asst. Med. 1916-17—Instr. Ped. Wash. Univ. St. Louis.

Clough, Harry Duffield—A. B. Brown 1908—Interne, R. I. State Hosp. Providence, 1915-17; Physician, New Bedford, Mass.

Crawford, Rena—Ph. B. Chicago 1903; A. M. Columbia 1910—Med. Officer, Gbraylochart Hosp. Edinburgh, Scot.

Cunningham, Robert Sydney—S. B. and A. M. Davison 1911—Instr. Anat.

Dayton, Arthur Bliss—Ph. B. Yale 1911; Fellow, Pathol. 1915-16—Physician, Naugatuck, Conn.

Delatour, Beeckman J.—S. B. Amherst 1911—Physician, Brooklyn, N. Y.

Derr, Woods Frederick—A. B. Bucknell 1911—Physician, Renovo, Pa.

Doherty, Drayton Howard—A. B. Howard 1910—Physician, Selma, Ala.

Elmendorf, DuMont F.—A. B. Rutgers 1911; R. H. O. 1915-16—Asst. Res. Orthoped. Surg.

Fallas, Roy Edwin—A. B. Stanford 1911; R. H. O. 1915-16—Surg. Los Angeles, Cal.

Faust, Otto Alois—Ph. D. Union 1911—Physician, Albany, N. Y.

Gasser, Herbert Spencer — Wisconsin (A. B. 1910, Instr. 1915-16)—Assoc. Physiol. Washington Univ. St. Louis.

von Glahn, William Carson — S. B. Davidson 1911—Asst. Pathol.

Glass, Samuel James, Jr.—S. B. Pittsburgh 1911—Assoc. Surg. and Chf. Surg. O. P. D. Presb'n Hosp. Pittsburgh.

Gober, William Mayes—A. B. Georgia 1909.

Goddard, Calvin Hooker—A. B. 1911—Lakewood, N. J.

Griffith, Lewie Muller—S. B. South Carolina 1908—Surgeon, Columbia, S. C.

Griffith, Roy—S. B. Georgia 1911—Physician, Newark, N. J.

Haden, Russell Landram—A. B. Virginia 1910; R. H. O. 1915-16.

Happ, William Morris—A. B. Georgia 1911—Instr. in Pediatrics.

Heddens, Vernon Offutt—A. B. Missouri 1910—Interne, New York Hosp.

Houck, Frank M.—Ph. B. Dickinson 1910—Supt. Cragmor Sanatorium, Colo. Spgs. Colo.

Irwin, Stewart Vernon—S. B. California 1911; R H. O. 1915-16—Res. Physician, Private Wards.

Joseph, Morris—S. B. New York Univ. 1911—Phys. Passaic, N. J. (30 Lexington Av.)

McLean, McDugald Keener—A. B. Southwestern 1908; B. Sc. Oxford 1913.

MacRae, Floyd Wilcox, Jr.—Ph. B. Yale 1911—Physician, Atlanta (1014 Peachtree St.)

McVay, James Robert—A. B. Missouri 1912—Trenton, Mo.

Makel, Hertel Philip—A. B. 1911.

Mason, Verne Rheem—S. B. California 1914; R. H. O. 1915-16—Asst. in Medicine.

Maxcy, Kenneth Fuller—A. B. George Washington 1911; R. H. O. 1915-16; Asst. Res. Ped'n 1915-17—Phys. Balt. (905 Cathedral St.)

Melen, David Ralph—S. B. Rochester 1911—Physn. Rochester, N. Y

Mitchener, James Samuel—S. B. Davidson 1909—Physician, Kinston, N. C.

***Morgan, Harold Sydney**—A. B. Stanford 1912—1st Lieut. M. C.—**In France, May,* 1918.

Moore, Thomas Verner—Ph. D. Catholic Univ. 1903—Assoc. Prof. Psychol. Catholic Univ. Washington.

Morison, Rufus Ayers—Va. Mil. Inst. 1905—Rockefeller Hosp. N. Y.

Murray, John Gardner, Jr.—A. B. 1911; R. H. O. 1915-16—Res. Obstet; Disp. Obstet.; Instr. Obstetrics; Physn. Balt. (9 E. Biddle St.)

Musser, Harvey Huston—A. B. 1911; R. H. O. 1915-16; Asst. Res. Surg. 1916-17—Phys. Balt. (1007 Madison Av.)

Newcomer, Harry Sidney—A. B. Wisconsin 1909—Penna. Hosp. Phila.

Peightal, Thomas Christian — Ph. B. Franklin and Marshall 1911—House Phys. Roosevelt Hosp.

Preston, George Hinrichs—A. B. 1911; R. H. O. 1915-16—Phys. Balt.

Putnam, Mary—A. B. Bryn Mawr 1910—Physn. Cambridge, Mass.

Rhodes, George Kremer—S. B. California 1912; R. H. O. 1915-16—Physn. San Francisco.

***Richards, Davis Neeper**—A. B. Wooster 1911—(**Oct.*, 1918)

Richards, Esther Loring—A. B. Mt. Holyoke 1910; R. H. O. 1915-16—Asst. Res. Phys. Phipps Psych. Clinic.; Instr. Psychiatry.

Rivers, Thomas Milton—A. B. Emory 1909; R. H. O. 1915-16; Instr. Pediatrics 1916-18—Instr. in Path.

Rosenthal, Gilbert White—A. B. 1910; R. H. O. 1915-16—Physn. Balt.

Rothschild, Lippman Levy—A. B. Yale 1910.

Schnack, Adolph George—A. B. Stanford 1910; A. M. Yale 1911.

Scott, Katherine Julia—A. B. Wellesley 1910—Instr. Anat. Univ. of Cal. Berkeley.

Shellito, Judd Campbell—S. B. Princeton 1911—Physician, Independence, Ia.

Shewbrooks, Daniel Marsh—A. B. Middlebury 1909; Asst. Med. Univ. of Minn 1916-17—Major M. C.; Instr. U. S. Mil. Acad. West Point.

Slater, Harvey M.—A. B. Oregon 1911—Physician, Minneapolis.

Smith, Daniel Clarke Wharton 2nd—Ph. B. Yale 1911; R. H. O. 1916-17—Physician, Balt.

Smith, Lucius Ernest—S. B. Kentucky Univ. 1911—West African Miss'n, Batanga, Cent. W. A.

Smith, L. Howard—S. B. Huron 1910—Asst. Surg. U. S. P. H. S. Norfolk, Va.

Swan, Mary Hannah—A. B. Mt. Holyoke 1905—Pathologist Central Hosp. Ill. C. R. R. Chicago.

Sydenstricker, Virgil Preston Willis—A. B. Washington and Lee 1910; R. H. O. 1915-16; Asst. Med. 1916-17.

Tappan, Benjamin—A. B. 1911—Disp. Pedn.; Phys., Balt. (11 Northfield Pl.)

Thomas, William Clark—A. B. Emory 1911—Int. Letterman Hosp. San Francisco.

Trueblood, Donald Vaughn—A. B. Washington Univ. 1911; R. H. O. 1915-17—Res. Surg. Minor Hosp. Seattle, Wash.

Tucker, Prescott Stearns—A. B. George Washington 1911; R. H. O. 1915-16—Washington (802 Mass. Ave., N. E.)

Turner, John Calvin, Jr.—S. B. Davidson 1908—Camilla, Ga.

Turner, Victor Roland—S. B. Denison 1909; A. M. Harvard 1911.

Walker, John Edward—S. B. Ala. Polytech. 1910.

Warner, Charles Luther—A. B. 1911—Asst. Surg. U. S N. R., Ft. Lyon, Colo.

Werner, Roy Gillilan—A. B. Ohio State 1909—Physician, Parkersburg, W. Va.

Wharton, Lawrence Richardson—Ph. B. Hiram 1907; R. H. O. 1915-16—Asst. Res. Gyne.

Whisman, Henry Stafford—S. B. California 1911.

Williams, Louis Hicks—A. B. North Carolina 1911.

Wix, Edward Blaine—Ph. B. Yale 1911—Physician, Jersey City, N. J. (2671 Boulevard)

Woo, Sien-ming (Hu Hsüan-ming)—A. B. St. John's (Shanghai) 1910—Phys. Shanghai, China (5 Quinsan Gardens).

Chisolm, James Julian—A. B. Princeton 1911—Asst. Res. Laryng.; Asst. in Laryng. [*Degree conferred Feb.* 22, 1916.] (89)

Class Secretary—Benjamin Tappan, 11 Northfield Pl., Balt.

1916

Anderson, William Willis—A. B. Georgia 1911—Physician, Atlanta, Ga.

Applebaum, Herman S.—A. B. 1913—Interne, Mt. Sinai Hosp. Cleveland, O.

Bacon, Emily Partridge—A. B. Wilson 1912—Res. Lankeman Hosp. Phila.

Barclay, Irvin C.—S. B. Knox 1912—

***Barlow, Bryan Anderson**—S. B. Alabama 1912—(**July* 14, 1919.)

Bean, Harold Cedric—A. B. Oregon 1912; R. H. O. 1916-17—Physician, Heppner, Ore.

Blanco, Pio—S. B. Washington and Jefferson 1912; Fellow, Mayo Clinic, Rochester, Minn.

Brock, Sam—A. B. Georgia 1911—Fellow, Mayo Clinic, Rochester, Minn.

Bullard, H. Hays (F)—A. B. Missouri 1908; Ph. D. Tulane 1912—Assoc. Pathol.; Res. Pathol.

Burkholder, Harry Jackson—S. B. Monmouth 1912—Interne, Walker Hosp. Evansville, Ind.

Carden, John Joseph, Jr.—S. B. California 1912.

Christman, Paul William—S. B. California 1912—Physician, Sacramento, Calif.

Clark, Seymour Garland—Ph. B. Emory 1912—Physician, Brooklyn, N. Y.

Conrad, Henry Brown—A. B. Wake Forest 1912; R. H. O. 1916-17—Physician, Winston-Salem, N. C.

Cummings, William Walter—A. B. Brown 1912.

Darrow, Frank Irons—S. B. North Dak. Agr. 1912.

Disbrow, Harold Ball—A. B. Princeton 1911—Kimball Hosp. Lakewood, N. J.

Eidson, Joseph Pugh—A. B. Miami 1912; R. H. O. 1916-17—Physician, Eaton, Ohio.

Erickson, Reuben Johann—A. B. Knox 1911—Phys. Galesburg, Ill.

***Etheridge, James Allan**—A. B. Georgia 1912; R. H. O. 1916-17. **Oct.* 7, 1918.

Fairbank, Ruth Eldred—A. B. Illinois 1911; R. H. O. 1916-17—Asst. Psychiatry; Asst. Res. Psych.

Felton, Lloyd Derr—A. B. Wooster 1910—Assoc. Bacteriol.

Fielder, Roy Lamar—A. B. and S. B. Emory and Henry 1912—Interne, Southern Pacific Hosp. San Francisco.

Finney, William Parker, Jr.—A. B. Princeton 1908; Rockefeller Fellow, 1916-18—Washington, D. C.

Fuller, Robert Guy—S. B. La. State 1907—Res. H. A. Kelly Hosp. Balt.

Gill, Hugh Clinton Fiske—S. B. Maryland Agr. 1912—Physn. Balt.

Greenwood, Adolphus Barte—A. B. North Carolina 1910—Serologist. N. C. State Lab. Hyg. Raleigh.

Grempler, Walter Edward—A. B. 1912.

Haessler, Ferdinand Herbert—A. B. Wisconsin 1914—Instr. Univ. of Louisville and Res. Pathol. Louisville City Hosp. 1917-18; Rockefeller Inst. N. Y.

Hallock, David Horace—A. B. Hamilton 1912—Physn., Southampton, N. Y.

Hamman, Howard Harrison—S. B. Allegheny 1912—Physn. Greensburg, Pa.

Handy, Margaret Irving—A. B. Goucher 1911—Physn. Wilmington, Del.

Harmon, Charles Maxwell—A. B. Lake Forest 1912—U. S. P. H. Hosp. Balt.

Harris, John Warton—A. B. North Carolina 1911; R. H. O. 1916-17—Res. Obstn.; Instr. Obstet.

Harrop, George Argale, Jr.—A. B. Harvard 1912; R. H. O. 1916-17—Asst Res. Phys.; Asst. Med.

Heldt, Thomas Johannes—A. B. Missouri 1910.

Herpel, Frederick Karl—A. B. Allegheny 1912—Army Med. Sch. Washington. 1912.

Hicks, Elijah Maxie, Jr.—A. B. Furman 1912.

Hood, Robert Carhart—A. B. Washington and Lee 1912.

Hundley, Jack Mason—A. B. St. John's 1912—Interne, U. P. I. (Balt.)

Jenks, Mildred—A. B. Wellesley 1911—Res. Phys. Hackett Med. Coll. & Hosp. Canton, China.

Kinne, Arthur Lyman—A. B. Dartmouth 1912—Physn. Holyoke, Mass.

Lawrence, Joseph Sell—A. B. Franklin and Marshall 1904; Asst. 1916-17—Bacteriol. Lab. State Dept. Health, Albany.

Lena, Hugh Francis—A. B. Dartmouth 1912—Asst. Surg. U. S. N.—Naval Hosp. New London, Conn.

Lincoln, Asa Liggett—A. B. Elon 1910—Interne, Bellevue Hosp. N. Y.

***Long, John Gabriel**—A. B. Franklin and Marshall 1912—(**Oct.* 24, 1918.)

Lovett, Irving Kennedy—Ph. B. Lafayette 1912; R. H. O. 1916-17—Reed Hosp. Washington, D. C.

McCafferty, Lawrence Kinsman—A. B. Kenyon 1912—Physn. Columbus, Ohio.

McCarthy, Charles Lee—S. B. Princeton 1912; R. H. O. 1916-17—Princeton, N. J.

McGuire, Patrick Francis—A. B. Rock Hill 1909; R. H. O. 1916-17—Physn. Balt.

Maas, Edith Helen (Mrs. A. L. Lincoln) Lacey Springs, Va.

Major, Richard S.—A. B. Wofford 1909—Interne, Allegheny Gen'l Hosp. Pittsburgh; Capt, M. C.

Martin, Walter Bramblette—S. B. Virginia Polytech. 1909; R. H. O. 1916-17—Physn. Norfolk, Va.

Miller, Milo Kirk—A. B. Illinois 1912; R. H. O. 1916-17.

Mitchell, William Thomas, Jr.—S. B. Pittsburgh 1912—Phys. Pittsburgh.

Moore, Joseph Earle—A. B. Kansas 1914; R. H. O. 1916-17—Asst. in Clin. Med.

Mullin, John Henry—S. B. Princeton 1912—Chf. Res. Phys. Delaware Hosp. Wilmington.

Murchison, David Reid—A. B. North Carolina 1912—Richmond, Va.

Pfitsch, Alfred Jr.—A. B. Western Maryland 1912—Phys. Amer. Luth. Miss. Hosp. Rentachintala, S. India.

Pritchett, Charles Bernard—A. B. Washington and Lee 1912—Physn. Danville, Va.

Reese, Sidney O., Jr.—S. B. Nebraska 1913; R. H. O. 1917-18.

Reid, Horace Withers—A. B. Central Univ. (Ky.) 1911; R. H. O. 1916-17.

Reynolds, Fred Dawson—S. B. Alabama 1912—Brundidge, Ala.

Reynolds, Lawrence—A. B. Alabama 1912—Brigham Hosp. Boston, Mass.

Roberts, Francis Errett—A. B. Bethany 1912; R. H. O. 1916-17.

Sevier, Charles Edwin—S. B. Vanderbilt 1912; R. H. O. 1916-17—Physician, Brownsville, Tex.

Sevier, John Alston—S. B. Vanderbilt 1912—Cragmoor San. Colo. Springs, Colo.

Smith, Daniel Glen—S. B. Union 1912; R. H. O. 1916-17—Physician, Schenectady, N. Y.

Smith, Taylor Bivens—A. B. Marietta 1912—Interne, Univ. of Minnesota Hosp. Minneapolis.

Southard, William White—A. B. Stanford 1910—Physn. Los Angeles, Calif.

Speed, James Spencer—A. B. Virginia 1912—Interne, Jefferson Hosp. Roanoke, Va.

Stifel, Richard Ernest—A. B. Harvard 1912—Physn. Cleveland, Ohio.

Stoddard, James Kent—A. B. Princeton 1912—Physician, Phila. (7930 Crefeld St., Chestnut Hill).

Sutton, Alan Callender—A. B. 1912; R. H. O. 1916-17—Phys. Balt.

Sutton, Thomas Lynn—A. B. Michigan 1912; R. H. O. 1916-17.

Thomas, Henry M., Jr.—S. B. Haverford 1912—Interne, Reed Hosp. Washington.

Warinner, Junius Ernest, Jr.—A. B. Richmond 1912—Physician, Richmond, Va.

Wheeler, Theodora (Mrs. T. W. Finney) A. B. Vassar 1911—Mayo Clinic Rochester, Minn.

White, Samuel Augustus—S. B. South Carolina 1912—Physn. Ridgeland, S. C.

Wislocki, George Bernays—A. B. Washington Univ. 1912; Asst. Anatomy 1916-17—Physn. Balt.

Zimmerman, Ernest Ludwig—A. B. Dartmouth 1912—Disp. Phys. Dept. L; Instr. Clin. Med.

Briggs, Rowland Sill—S. B. California 1915—Physician, Sacramento, Cal. [*Degree conferred Feb.* 22, 1917.]

Henry, George William—A. B. Wesleyan 1912—Asst. Res. Phys. Bloomingdale Hosp. White Plains, N. Y. [*Degree conferred Feb.* 22, 1917.]

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1917

Amberson, James Burns, Jr.—Ph. B. Lafayette 1913—Asst. Phys. Loomis San. N. Y.

Anderson, James Kerr.—A. B. Washington and Jefferson 1913—Physician, Pittsburgh, Pa.

Anderson, Walter Thomas—A. B. Washington and Jefferson 1913; R. H. O. 1917-18.

Baird, John Herman—A. B. Kenyon 1913; R. H. O. 1917-18.

Banks, Horace McMurran—A. B. Washington and Lee 1913—Physician, Shepherdstown, W. Va.

*Belcher, Burton Elias—S. B. Florida State 1905—Asst. Surg. U. S. N. (*Died, Nov.* 1918).

Blake, William Campbell—S. B. Howard Coll. 1913.

Blanchard, Irene M.—A. B. Michigan 1898—Mayo Clinic, Rochester, Minn.

Brady, Leo—A.B. 1913—R. H. O. 1917-18; Asst. Res. Gynecol.

Brosius, William Lewis, Jr.—A. B. Missouri 1915; R. H. O. 1917-18.

Brown, G. Bedford, Jr.—S. B. Georgetown 1912, and Yale 1913—Lexington, Ky.

Bullard, Hugh Max—S. B. Bucknell 1913.

Callander, Curle Latimer—A. B. Harvard 1913; R. H. O. 1917-18—St. Francis Hosp. N, Y. City.

Carroll, Alice Berry (Mrs. E. K. Marshall, Jr.)—S. B. Ohio State 1911—St. Louis, Mo.

Carter, John Meynard—A. B. Missouri 1914—Physician, Detroit.

Clark, George Arthur—S. B. Hamilton 1913.

Clark, Hallie Marguerite—S. B. Syracuse 1912—Asst. Res. Phys.; Asst. Med.

Davidson, Herman Porter—A. B. Washington and Lee 1913—Eye and Ear Infirm. Boston, Mass.

Davison, Wilburt Cornell—A. B. Princeton 1913; Oxford (Rhodes Scholar 1913-16, A. B. 1915, B. Sc. 1916)—Instr. in Pediatrics.

Doege, Karl Herman—S. B. Wisconsin 1913.

Doub, Howard Philip—A. B. Western Md. 1913—Phys. Detroit (1429 Whitney Bldg.)

Fear, Raymond Durstan—A. B. Hamilton 1913; R. H. O. 1917-18—Deep River, Conn.

Fowle, Hubert William—A. B. Williams 1910.

Frishman, Morris—S. B. Pittsburgh 1913—Phys. Pittsburgh.

Gailey, Herman Anderson—A. B. St. John's 1913.

Gamble, Thomas Owen—S. B. Alabama 1912—Asst. Res. Obstn.

Gay, Leslie Newton—Ph. B. Lafayette 1913.

Groover, Gordon Lewis, Jr.—A. B. Washington and Lee 1912—Physn. Savannah, Ga.

Guy, Ruth Alline—A. B. Barnard 1912; Asst Bacteriol. 1917-18.

Hardy, George Edward Webb, Jr.—A.B. 1913—Union Prot. Infirm. Balt.

Hartman, Frank Wilbur—A. B. Knox 1913—Asst. Surg. U. S. N. Washington.

Hoffman, Robert Val.—A. B. St. John's 1913—Physn. South Bend, Ind.

Hohman, Leslie Benjamin—A. B. Missouri 1912; R. H. O. 1917-18—Asst. Res. Phipps Clinic.

Howard, Sarah Ernestine—A. B. Wellesley 1911; R. H. O. 1917-18—Physn. Reading, Mass.

Jackson, Waddie Pennington—A. B. Randolph-Macon 1910—Asst. Surg. U. S. N. Washington.

Jacobs, Louis Llewellyn—A. B. 1913.

Janney, John Hall, Jr.—S. B. Earlham 1913.

Johnson, Robert Wilkinson, Jr.—A. B Princeton 1912—Physn. Balt.

Ketzky, Joseph W.—S. B. Ala. Polytech. 1912.

King, Merle William—A. B. Allegheny 1908—Asst. Res. Surg. Hosp. for Women, Balt.

Koch, John Christian—S. B. Georgia 1904—Physn. Detroit.

Kolls, Alfred C.—S. B. Wisconsin 1914.

Linden, Harry—A. B. 1912.

Linthicum, Frederick Hamilton—A. B. Loyola 1912; R. H. O. 1917-18—Asst. Laryngol.

Luckett, Coen L.—A. B. Univ. of Ill. 1914—Physn. Terre Haute, Ind.

McCartney, James Shearer, Jr.—A. B. Washington and Jefferson 1913.

McGauley, Frederick Francis—S. B. Union 1912; R. H. O. 1917-18.

McMeen, Claude Vincent—Ph. B. Dickinson 1913.

McNeal, Morley Daniel — A. B. Iowa 1913.

Mann, Hubert Melville — A. B. Union 1913—Physn. Schenectady, N. Y.

Marshall, Eli Kennerly, Jr. — S. B. Charleston 1908; Ph. D. 1911—Prof. Pharmacol. Wash. Univ. St. Louis, Mo.

Martzloff, Karl Henry—A. B. Oregon 1913—Asst. Pathol.

Merritt, Katharine Krom—A. B. Vassar 1908—Thorne House, Stamford, Conn.

Micklethwaite, Gilbert Richard—S. B. Ohio Univ. 1913.

Miller, Frederick A.—A. B. St. John's 1912—Field Director, Rockefeller Foundation.

Moise, Theodore Sidney, Jr. — A. B. Georgia 1913—Asst. Path., Yale.

Nicholson, Hubert Maurice—S. B. Oklahoma 1912—Physn. Kansas City, Mo.

Novak, Edward—A. B. 1913—Physn. Balt.

Payne, Louis Ernest, Jr.—A. B. St. John's 1912.

Pulford, DeLos Schuyler, Jr.—S. B. Trinity (Conn.) 1912—Interne, Ford Hosp. Detroit.

Reber, Ralph Louis — Ph. B. Franklin and Marshall 1913.

Rice, John L.—S. B. Wesleyan 1912—Health Dept. Maysville, Ky.

Riggin, Irl Cephas—A. B. Western Md. 1913—Army Med. Schol, Washington.

Sanger, Bertram Julian—A. B. Texas 1913; R. H. O. 1917-18—Physn. Waco, Tex.

Schultz, Edwin William—S. B. Winona 1913; A. B. Michigan 1914—Stanford Univ. Calif.

Sharp, Robert G.—California (S. B. 1911, Ph. D. 1914)—Res. Phys. Boston Free Disp.

Shearer, Joseph Pardoe—S. B. Bucknell 1913.

Sherrill, James Winn — A. B. Baylor 1913.

Shipton, George Marsden—A. B. Williams 1913.

Shulman, David Nathaniel—A. B. 1913—*Tucson, Ariz.*

Smith, Eben Elliott—S. B. Moore's Hill 1913.

Sosman, Merrill Clary—A. B. Wisconsin 1913—Chillicothe, Ohio.

Staehle, Richard Henry—S. B. Princeton 1913—Interne, Newark (N. J.) City Hosp.

Stafford, Frank William John — A. B. Michigan 1914—Physician, Detroit (Smith Bldg.)

Stewart, Robert Bond—Toronto (A. B. 1905, A. M. 1906, B. Sc. 1909)—Interne, Presbyterian Hosp. Phila.

Stifel, John Louis—A. B. Harvard 1913—Physician, Toledo, Ohio.

Sturgis, Cyrus Cressy—S. B. Washington 1913—Interne, Brigham Hosp. Boston.

Summers, William Shakespeare — A. B. and S. B. Missouri 1914—Detroit Clin. Lab. Mich.

Tibbetts, Mark Hopkins—S. B. Parsons 1912.

Tillett, William Smith — A. B. North Carolina 1913—R. H. O.

Tischler, Max—Ph. B. Lafayette 1913.—Interne Gen. Hosp. Wilkes-Barre, Pa.

***Twigg, Nial Franklin**—A. B. St. John's 1913; *1st Lieut. M. C.—*Oct.* 10, 1918.

Tyler, Margaret — A. B. Mt. Holyoke 1913; R. H. O. 1917-18—Asst. Res. New Haven Hosp. Conn.

Van Nostrand, Hobart Sanford — S. B. Colgate 1913.

Wason, Isabel Mary — A. B. Western College for Women 1911.

Webb, Robert Alexander, Jr. — A. B. Southwestern Presb. 1910.

White, John Bonar — A. B. Davidson 1910—Physn. Atlanta, Ga.

Wilkinson, George Richard—S. B. Davidson 1912—Interne, Hosp. for Women, Balt.

Worthington, Frank Dallam — A. B. Princeton 1913—Asst. Res. Hosp. for Women (Balt.)

Wright, Mary—A. B. Vassar 1911—Interne, Brigham Hosp Boston.

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1918

Arnold, Clement Harrisse—A. B. Stanford 1910—Visiting Phys. County and Polyclin. Hosps., San Francisco.

Baylor, John Ward—A. B. Wash. and Lee 1914—Asst. Disp. Laryn.

Blair, Harry Edwin—A. B. West. Md. 1914—Chldn. Hosp. Milwaukee, Wis.

Bollinger, Herman John—S. B. Heidelberg (Ohio) 1914—Mercy Hosp. Toledo, Ohio.

Bowden, David Thomas, Jr.—A. B. 1914—*Passaic, N. J.*

Brewster, Albert Howell—A. B. Va. 1914.

Cathrall, Friedman Holmes—S. B. Bucknell 1914—Asst. in Obstet.

Coblentz, Richard Gilmore—A. B. 1914—Church Home and Infirm.

Conroy, Frank Davies—A. B. Univ. of N. C. 1919—Asst. Clin. Lab.

Craddock, Alva Brown—S. B. Howard Coll. 1908—Asst. Phys. Sanatorium, Mt. McGregor, N. Y.

***Day, Edgar Mortimer**—A. B. Princeton 1914—(*Died, July* 23, 1919.)

Dorsey, John Lanahan—A. B. 1914—Phys. Balt.

Douglas, Beverly—Litt. B. Princeton 1914.

Dunham, Ethel Collins—A. B. Bryn Mawr 1914—New Haven Hosp. Conn.

Eliot, Martha May—A. B. Radcliffe 1913—Chldns. Hosp. St. Louis, Mo.

Elmendorf, John E.—A. B. Rutgers 1914

Foley, Frederic Eugene Basil—Ph. B. Yale 1913—Lab. Exp. Surg. Harvard.

Fuller, Lawrence Stokes, Jr.—S. B. Univ. of S. C. 1914—Ford Hosp. Detroit.

Gager, Leslie Tracy—A. B. Yale 1914.

Germann, Hildegarde Catharine—A. B. Vassar 1913—Int. Phipps Clinic.

Getz, Lawrence—A. B. 1914—Physn. Balt.

Ghormley, Ralph Kalb—S. B. Whitworth 1914.

Goldsberry, Blaine Randolph—S. B. Ohio Univ. 1914—Asst. Surg. U. S. N.

Green, John Summerfield, Jr.—S. B. Lafayette 1914—Physn. Towson.

Griffith, Harry LaVerne—A. B. Ohio State 1914.

Harwood, Garland Melvin—A. B. Richmond 1914—Physn. Balt.

Herman, Nathan Bernard—A. B. 1914—Asst. Res. City Hosp.

Hillman, Rolfe Louis—A. B. Emory and Henry 1914.

Holman, Emile Frederic—A. B. Stanford 1911, and Oxford 1916—Asst. Surgery.

Houseal, Robert Wright—A. B. Newberry 1911; A. M. Va. 1913.

Huck, John Gardiner—A. B. 1913—Physn. La Grange, Ga.

Hughson, Walter—S. B. Princeton 1914—Res. Phys. Union Prot. Infirm. Balt.

Huiskamp, John Edabduel—A. B. Harvard 1898—Phys. Keokuk, Iowa.

Johnson, S. Lloyd—A. B. Goshen Coll. 1914—Asst. Surg. U. S. N., Washington.

Jordan, Carl Fred—A. B. Iowa Univ. 1914.

Key, John Albert—S. B. Ala. Polytech. 1913—Chldns. Hosp. Boston, Mass.

Keyser, Linwood Dickens—A. B. Va. 1914.

Kite, Joseph Hiram—A. B. Rand.-Macon 1914—Univ. Hosp. Augusta, Ga.

Klecan, Janina Constance—Lemberg (Austria) Gym. 1903—Interne, City Hosp. Balt.

Koontz, Amos Ralph—A. B. and S. B. William and Mary 1910—Interne, Hebrew Hosp. Balt.

Krumrein, Louis Frederick—A. B. George Washington 1914—Interne Loomis Sanatorium, Loomis, N. Y.

Lane, Clifford M.—A. B. Wash. and Jeff. 1913—St. Francis Hosp. Pittsburgh, Pa.

Lentz, Carlisle Sanford—A. B. Creighton 1914—Asst. Supt. J. H. H.

Levy, Charles Sumner—A. B. 1914—Int. Hebrew Hosp. Balt.

Lincoln, Jennings Sipe—A. B. Elon Coll. 1911—Physn. Balt.

***Linton, Edwin Scott**—A. B. Wash. and Jeff. 1913. **In France, Nov.* 14, 1917.

McCown, Albert Smith—A. B. Wash. and Lee 1910—R. H. O.

McFee, William Frank—A. B. Tenn. 1914—Int. St. Agnes Hosp.

Martindale, Joseph Watson, Jr.—Ph. B. Yale 1913.

Mateer, John Gaston—A. B. Wooster 1911—Asst. in Med.

Mayer, William Frederick—A. B. Princeton 1914.

Meekins, Gilbert Edison—A. B. Wash. Coll. 1913—Jefferson Hosp. Roanoke, Va.

Menagh, Frank Robert—A. B. Iowa Univ. 1914—Interne Ford Hosp. Detroit.

Michael, Edith S.—A. B. Lyceum Fliegelmann, Vienna 1911.

Montgomery, John Chalmers—A. B. Mich. 1914—Ford Hosp. Detroit, Mich.

Morgan, Hugh Jackson—S. B. Vanderbilt 1915—R. H. O.

Nachlas, Israel William—A. B. 1914—Asst. Clin. Orth. Surg.

Noble, William Dove—A. B. St. John's 1914—Int. Church Home & Infirm. (Balt.)

Oppenheimer, Ella—A. B. Bryn Mawr 1914—Physn. Washington, D. C.

Pardee, Katherine—A. B. Wellesley 1912—Asst. Res. Hosp. Women of Md.

Penfield, Wilder Graves—Litt. B. Princeton 1913—Interne Brigham Hosp. Boston.

Phythyon, Daniel—S. B. Westminster (Pa.) 1914.

Porter, Clarence Chipley—A. B. 1914.

Rankin, John Paul—A. B. Ohio Wesleyan 1914—N. Y. Hosp. N. Y.

Ransom, Clarence Albert—S. B. Fargo 1914.

*Rich, Lyle Barnes—A. B. North Dakota 1914. **In France, Dec.* 8, 1917.

Richter, Ina May—A. B. Bryn Mawr 1908—Physn. San Francisco, Calif.

Rosen, Robert—S. B. Mich. Agric. 1913—

Rushing, Emmet Orren—A. B. Texas 1913—Asst. Res. Surg. Lakeside Hosp. Cleveland, Ohio.

Sachs, Louis—A. B. 1914.

Scott, William Justus Merle—A. B. Oberlin 1914—Interne, Ford Hosp. Detroit.

Shirley, Harold Clinkscales—S. B. S. C. Mil. 1913; A. M. S. C. Univ. 1914—Macon, Ga.

Smith, Woodruff—A. B. Williams 1914.

Southworth, John Deane—A. B. Kenyon 1914.

Spalding, Edward D.—S. B. Princeton 1914—City Hosp. Bayview, Balt.

Stewart, Horace Gentry—S. B. Mass. Inst. Tech. 1914.—Asst. Res. Pedn.

Stone, Phebe—A. B. Goucher 1914—Kiu Kiang, Kiangsi, China.

Swartz, Ralph Easterday—A. B. Kansas 1914.

Tannenbaum, Karl Hart—A. B. Wabash 1914—Church Home and Infirm. Balt.

Verplanck, Van Noyes—A. B. Yale 1914—Int. Roosevelt Hosp. N. Y.

Wadsworth, Harvey Bryan—A. B. N. C. Univ. 1909.

Wagner, Charles Edward—Ph. B. Dickinson 1914—Int. Harriet Lane Home, J. H. H.

Ward, James Alto—A. B. Howard Coll. 1914—Asst. Disp. Physn.

Wilkins, Lawson—A. B. 1914—Balt. (6 N. Broadway.)

Witzeman, Louis Alexander—A. B. Harvard 1913.

Woolley, LeGrand—A. B. Utah 1911—Physn. Salt Lake City, Utah.

Yager, Rodes Estill—S. B. Georgetown (Ky.) 1913.

Hobbs, Royal Lee—A. B. St. John's 1914—Interne, Church Home and Infirmary, Balt.—[*Degree conferred Oct.* 1, 1918.]

Stump, Elmer Raymond—A. B. Georgia 1912—Interne, Brady Clinic—[*Degree conferred Oct.* 1, 1918.]

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1919

Adams, Enoch Hermon — A. B. Bates 1913—Interne, St. Agnes Hosp.

Armstrong, Jane B.—A. B. Smith 1910.

Athens, Alvin Glenwood—A. B. DePauw 1915—R. H. O.

Baskett, Edgar Drane—A. B. and A. M. Missouri 1915 and 1916, and Med. Stud. 1913-15; Interne, New Haven Hosp. Conn.

Benedict, Mary Kendrick—A. B. Vassar 1897; Ph. D., Yale 1903—Interne, Bellevue Hosp. N. Y.

Bogart, Franklin Blevins—S. B. and M. S. Wisconsin 1916 and 1917 and Med. Stud. 1914-17—Asst. Dr. W. H. Cheney's Diag. Lab. Chattanooga, Tenn.

Bowcock, Harold Mathew—S. B. and M. S. Michigan 1916 and 1917, and Med. Stud. 1914-16—R. H. O.

Breitstein, Moses Lewis — A. B. Richmond 1915—Interne, Bellevue Hosp. New York.

Broyles, Edwin Nash — S. B. Georgia 1915.

Carr, Eugene Morrison—A. B. Pennsylvania 1913—R. H. O.

Cash, James Robert — A. B. and A. M. Virginia 1914 and 1915—Asst. in Path.

Casparis, Horton Ryan — A. B. Texas 1915—R. H. O.

Chapman, Leland Stanford—S. B. Occidental 1915—Interne, Ancon Hosp. C. Z.

Cheetham, John Gardner—A. B. St. Lawrence 1913—R. H. O.

Chenoweth, Laurence Benjamin — A. B. 1914—Interne, Albany Hosp. Albany, N. Y.

Cissel, Benjamin Milton — A. B. St. Johns 1914—Interne, U. P. I. Baltimore.

Cohn, L. Clarence—A. B. 1915—Asst. Res. Surg. St. Agnes Hosp. Baltimore.

Craig, Winchell McKendree—A. B. Ohio Wesleyan 1915—Interne, St. Agnes Hosp. Baltimore.

Creighton, Catherine—A. B. Bryn Mawr 1914—R. H. O.

Davidson, Leonard Tomb—A. B. Oberlin 1912—M. H. O. Peter Bent Brigham Hosp. Boston.

Davis, James Edward — A. B. Roanoke 1915—Interne, Hartford Hosp. Conn.

Demmond, Edward Carson—A. B. Emory 1915—Interne, Oglethorpe San. Savannah, Ga.

Dennis, Helen George — A. B. Oregon 1913—Interne, Children's Hosp. San Francisco.

Duncan, Edgar Everett—A. B. Arkansas 1915.

Dunlap, Ralph Harpel — A. B. Albright 1914—Interne, New Haven Hosp. Conn.

Dunn, James Ralph — S. B. Davidson 1915—Interne, St. Elizabeth's Hosp. Richmond, Va.

Ebaugh, Franklin Gessford—A. B. 1915. —R. H. O.

Farrell, Hortensia Amanda—S. B. Simmons 1912—Interne, New Haven Hosp. Conn.

Finney, John Miller Train, Jr. — S. B Princeton 1915—Interne, U. P. I. Baltimore.

Finney, Thomas Samuel—A. B. Wabash 1915.

Flowers, Earl Newton—A. B. West Virginia Wesleyan 1915—Interne, Albany Hosp. Albany, N. Y.

Gray, Watson Womack—A. B. Randolph-Macon 1915—R. H. O.

Greenberg, Jacob Pearl—S. B. City of New York 1915—R. H. O.

Hannon, Robert Roger—S. B. Washington 1915—Interne, Ancon Hosp. Ancon, C. Z.

Hanrahan, Edward M., Jr.—A. B. Cornell 1915—R. H. O.

Harbison, John William—A. B. and A. M. Trinity (N. C.) 1912 and 1915; Med. Stud. North Carolina 1915-17—Interne, U. P. I. Baltimore.

Harvey, George Givins—A. B. and A. M. Missouri 1916 and 1917, and Med. Stud. 1915|16—Interne, Barnes Hosp. St. Louis.

Herlinger, Ralph David—S. B. Hobart 1915—Interne, U. P. I. Baltimore.

Higgins, Harold Leonard—A. B. Harvard 1907—R. H. O.

Holmes, Champneys Holt—S. B. Georgia 1915—Interne, New Haven Hosp. Conn.

Holtz, Paul Roscoe — A. B. Western Maryland 1915—Interne, New Haven Hosp. Conn.

Hubbard, Lois—A. B. Vassar 1915. — Interne, St. Elizabeth's Hosp. Washington, D. C.

Hussey, Cyril Christopher—S. B. Ohio 1915—Interne, Woman's Hosp. Baltimore.

Huyler, Washington Connor—S. B. Columbia 1915—R. H. O.

Johnston, Robert Alexander—S. B. Alabama 1915—R. H. O.

Josephs, Hugh Wilson—A. B. Harvard 1914—R. H. O.

Kerr, H. Dabney—S. B. Wisconsin 1916, and Med. Stud. 1914-16—R. H. O.

Kinnaman, Howard Athos—S. B. Earlham 1915—Interne, City Hosp. Indianapolis, Ind.

Kunkel, William Minster—A. B. Franklin and Marshall 1915—Interne, Lankanau Hosp. Philadelphia, Pa.

Liberles, Lucille—A. B. Goucher 1915 —Interne, Bellevue Hosp, New York.

Lee, Ferdinand Christian—A. B. Cornell 1915—R. H. O.

McLean, Jay—S. B. California 1914; A. M. Pennsylvania 1917—Asst. in Surg.

Macklin, Madge Thurlow—A. B. Goucher 1914—Asst in Physiol. Schol of Hygiene.

Macgowan, Birkhead—S. B. Tennessee 1915—Interne, Albany Hosp. Albany, N. Y.

McIntosh, William Alexander—A. B. and A. M. Oberlin 1913 and 1915—Asst. in Anatomy.

Martin, Hilmar George—A. B. and A. M. Wisconsin 1915 and 1916, and Med. Stud. 1914-16—Res. Balto. Eye, Ear and Throat Hosp.

Moench, Laura Mary—A. B. Wellesley 1914; Med. Stud. Cornell 1915-16—Interne, Bellevue Hosp. N. Y.

Monfort, John Merrell — A. B. Emory 1915—St. Thomas Hosp. Pan. City, Pan.

Murray, Doris Audrey — A. B. McGill 1915—254 Douglas Ave., St. oJhn's, N. B. Canada.

Musselman, Luther Kyner—S. B. Penna. 1915—Interne, New Haven Hosp. Conn.

O'Brien, Joseph Grant, Jr.—A. B. St. Francis Xavier 1914—Interne, H. A. Kelly Hosp. Baltimore.

Ormond, Alexander Thomas, Jr.—A. B. Princeton 1912—Interne, Peter Bent Brigham Hosp. Boston.

Parsons, Charles Edwards — A. B. Amherst 1913 and Colorado 1914—R. H. O.

Paul, John Rodman — A. B. Princeton 1915—Asst. in Path.

Paxman, Dalton Gordon—A. B. and M. S. North Dakota 1914 and 1915—Interne, South Pacific Hosp. San Francisco.

Platt, Anna — A. B. Bryn Mawr 1909. —Int. Bellevue Hosp. N. Y.

Price, James Valentine, Jr.—A. B. North Carolina 1915, and Med. Stud. 1915-17;—Interne, Peter Bent Brigham Hosp. Boston.

Purcell, Robert Emmet — A. B. Mich. 1915—Interne, St. Francis Hosp. Pittsburgh.

Purdy, Anne Peril—A. B. McGill 1915. —R. H. O.

Reese, Elizabeth Mintie—A. B. Goucher 1908—Interne, Md. State Tb. San.

Rich, Arnold Rice—A. B. and A. M. Virginia 1915—Asst. in Path.

Rienhoff, William Francis, Jr. — A. B. Cornell 1915—R. H. O.

Robnett, Dudley Anderson — A. B. and A. M. Missouri 1916 and 1917, and Med. Stud. 1914-16—Interne, H. A. Kelly Hosp. Baltimore.

Rowe, George Davis—A. B. Fredericksburg 1910—S. B. Wake Forest 1916, and Med. Stud. 1914-16—Interne, Woman's Hosp. Baltimore.

Sacks, Benjamin — A. B. 1915. — Res. Phys. Hebrew Hosp. Baltimore.

Schumacher, Irwin Clement—A. B. California 1915—R. H. O.

Stevenson, George Salvadore — S. B. Bucknell 1915—R. H. O.

Stewart, Harold Julian — A. B. 1915; Med. Stud. Columbia 1916-17—Interne, St. Luke's Hosp. New York.

Strongman, Bessie Talbot — S. B. Chicago 1915.

Swarthout, Edyth Claire—A. B. and A. M. Wisconsin 1913 and 1917, and Med. Stud. 1912-13 and 1916-17—R. H. O.

Thomas, Frank Carleton — A. B. Randolph-Macon 1915—R. H. O.

Uhler, Claud Irving—A. B. 1915.—R. H .O.

Voshell, Allen Fiske—A. B. 1915.—R. H. O.

Wallerstein, Emanuel U.—A. B. Virginia 1914—Interne, Bellevue Hosp. New York.

Webster, Leslie Tillotson — A. B. Amherst 1915—Asst. Path. and R. H. O.

Williams, George Huntington — A. B. Harvard 1915—House Phys. Royal Victoria Hosp. Montreal, Canada.

Williams, Judson Thomas—A. B. Colorado 1915—Interne, Woman's Hosp. Baltimore.

Willis, Henry Stuart—A. B. North Carolina 1914—Asst. in Medicine.

Winans, Henry Morgan — A. B. Leland Stanford 1916, and Med. Stud. 1915-16—Path. Johnson and Beall's Hosp. and Visit. Physn. Chldn. Hosp. Ft. Worth, Tex.

Wright, H. Garner — S. B. Washington 1913—R. H. O.

Youmans, John Barlow—A. B. and M. S. Wisconsin 1915 and 1916, and Med. Stud. 1914-16—M. H. O. Mass. Gen. Hosp. Boston.

(91)

Doctor of Public Health

1919

Ferrell, John Atkinson—S. B. North Carolina 1902 and M. D. 1907—Rockefeller Institute, New York.

Master of Arts

1914

Barroll, Lewin Wethered—A. B. Washington Coll. 1908 and Yale 1910; LL. B. Univ. of Md. 1912—Atty-at-Law, Balt.—(*Political Science*)

Branham, Lucy Gwyn—A. B. Washington Coll. 1911; Instr. Hist. Southland Sem. Fla., 1914-15 — Balt. (1014 Cathedral St.)—(*History*)

Buckler, Leslie Hepburn—A. B. 1912—80 Wall St., N. Y. City.—(*Political Science*)

Caldwell, Clinton Coppage—A. B. Roanoke 1905—(*Political Economy*)

Dunn, Grace Adelaide—Ph. B. Hamline 1909; Ph. D. 1915—Bureau of Plant Industry, Washington—(*Botany*)

Fox, Early Lee—A. B. Rand.-Macon 1909; Ph. D. 1917—Prof. Hist. Randolph-Macon College, Ashland, Va.—(*History*)

Gorton, Arthur Feddeman (F)—A. B. 1912, Ph. D. 1915, Instr. 1916-17; Instr. Univ. of Minn. 1915-16—Toledo, O.—(*Physics*)

Koontz, Louis Knott—A. B. Washington and Lee 1908; Ph. D. 1920; Dean and Prof. Hist. and Pol. Sci. Davis and Elkins Coll. 1914-17 — Instr. (*elect*) Amer. Hist. Univ. of Mich.—(*History*)

Lilly, Marie Loretto (F)—A. B. Notre Dame (Md.) 1900; Ph. D. 1916; Instr. Mt. St. Agnes Coll. 1916-17—Instr. English, Dominican Coll. San Rafael, Cal.—(*English*)

Martin, Edward Duffield—A. B. 1911; LL. B. Univ. of Md. 1913—Atty-at-Law, Balt. (1013 Md. Trust Bldg.)—(*Political Science*)

Mirza, Youel Benjamin—Ph. D. 1920—Shipping Board, Washington—(*Political Science*)

Ranft, Charles Frederick—A. B. 1902—Instr. Hist. Balt. Polytech. Inst.—(*History*)

Sturdy, Henry Francis—A. B. St. John's 1906—Prof. Hist. Naval Academy, Annapolis—(*History*) (13)

1915

Clarke, Jack Holman—A. B. Presbyterian Coll. (S. C.) 1905; B. D. Union Theol. Sem. (Va.) 1908, Phila. Pa.—(*Philosophy*)

Cohen, Teresa (F)—A. B. Goucher 1912; Ph. D. 1918—Alice Freeman Palmer Fellow 1918-19; Balt. (1709 Linden Ave.)—(*Mathematics*)

Dickey, Robert William—Wash. and Lee (S. B. 1910, A B. 1911); Ph. D. 1916—Assoc. Prof. Physics, Wash. and Lee, Lexington, Va.—(*Physics*)

Galloway, James Neville—A. B. Rand.-Macon 1908—Instr. Naval Acad. Annapolis—(*Mathematics*)

Gressitt, James Fullerton—A. B. 1906—Princ. Duncan Acad. Tokyo, Japan—(*Education*)

Hughes, William Brant—A. B. Ohio Northern 1909—Prof. Physics, Asbury Coll. Wilmore, Ky.; Instr. Physics 1918-19—(*Physics*)

Johnson, Buford Jennette—A. B. La Grange Coll. (Ga.) 1905; Ph. D. 1916—Bureau of Educ. Exper. N. Y. (16 W. 8th St.)—(*Education*)

Murphy, Herbert Hayes—A. B. West. Md. 1897; Prof. Md. State Normal School 1914-17—Supt. of Schools, Hastings-on-Hudson, N. Y.—(*Education*)

Rather, James Burness—S. B. Texas A. and M. Coll. 1907—Prof. Agric. Chem. Univ. of Ark. Fayetteville—(*Chemistry*)

Roberts, Joe Kent—Emory and Henry Coll. (A. B. 1910, Prof. Geol.), Emory, Va.—(*Geology*)

Spielman, William Carl—A.B. Cincinnati 1905—Assoc. Prof. Hist. etc., Carthage Coll. Ill.—(*History*)

Thompson, Edith Viola—A. B. Goucher 1909—Instr Math. Wilkes-Barre Acad. Pa.—(*Mathematics*)

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1916

Branham, Grace Bagnall—A. B. Bryn Mawr 1910; Ph. D. 1917—Instr. Rosemary Hall, Greenwich, Conn.—(*English*)

Burka, Samuel Moses—A.B. 1913, Ph.D. 1919—Physicist, Bureau of Standards, Washington—(*Physics*)

***Chinda, Masuyo**—A. B. Meija Univ. 1913—(*Political Economy*)—**April* 25, 1916

Crum, Earl Le Verne—A. B. St. John's 1913; Instr. Univ. of Rochester 1916-18—Athens, Pa.—(*Latin*)

Dotterer, Ray Harbaugh—Ph. B. Franklin and Marshall 1906; Ph. D. 1917—Clergyman, State Coll. Pa.—(*Philosophy*)

Hill, Hinda Teague—A. B. and L. I. Nashville 1903; late Prof. French, State Norm. Sch., Greensboro, N. C.—(*French*)

Johnson, Elizabeth Friench (F)—A. B. Goucher 1911; Ph. D. 1917—Instr. German, Sweet Briar Coll., Sweet Briar, Va.—(*German Lit.*)

Mohler, Fred Loomis—A. B. Dickinson 1914; Ph. D. 1917—Physicist, Bureau of Standards, Washington—(*Physics*)

Riley, Cathryn Vedalia—A. B. Wellesley 1912; S. B. Cornell 1916—Medical Student—(*Bacteriology*)

Scharf, Carl (F)—A. B. 1914—Balt. (914 N. Stricker St.)—(*German Lit.*)

Sykes, Philip Louis—A. B. 1908; LL. B. Univ. of Md. 1911—Atty-at-Law, Balt. (322 Law Bldg)—(*Political Science*)

Voss, Vivian—A. B. Transvaal Univ. Coll. 1913; Ph. D. 1917—(*Physics*)

Withers, Alfred Miles—A. B. Wash. and Lee 1906; Prof. Millsaps Coll. 1915-16, Davidson Coll. 1916-18—Assoc. French, Southern Methodist Univ. Dallas, Texas—(*French*)

(13)

1917

Bayne-Jones, Stanhope—A. B. Yale 1910; M. D. 1914—Assoc. Prof. (*elect*) Bacteriol.—(*Pathology*)

Blalock, Hubert Morse—A. B. Univ. of N. Carolina 1916—(*Political Science*)

Castleman, Robert Allen, Jr.—A. B. George Washington 1915—Physicist, Bureau of Standards, Washington—(*Physics*)

Dunlap, John Knisely—A. B. Albright 1914—(*History*)

Gover, Mary—A. B. Goucher 1913—Research Zoölogist, Cold Spring Harbor, N. Y.—(*Zoology*)

Greene, Elizabeth—A. B. Smith 1913—Greenfield, Mass. (5 Park St.)—(*Education*)

Guerrant, Sallie Adelaide—A. B. Centenary (Tenn.) 1896—High School, Petersburg, Va.

Hull, Joseph Poyer Deyo—Ph. B. Hamilton 1913—Oil Refining Corp. Shreveport, La.—(*Geology*)

Smallwood, Julian Chase—M. E. Columbia 1903—Associate—(*Mechanical Engineering*)

Tarr, Frederick Courtney—A. B. 1915—Balt. (331 E. 22d St.)—(*Spanish*)

Wan, George—A. B. Government Univ. of Peking 1912—(*Political Science*)

Welsh, Helen Dorothy—A. B. Goucher 1915—(*History*)

Wilcox, Jean Curley—A. B. Goucher 1915—Mt. Holyoke Coll. Mt. Holyoke, Mass.—(*French*) (13)

1918

Cloud, John H.—A. B. Valparaiso 1896—Prof. Physics, Valparaiso Univ. Ind.—(*Physics*)

Coffin, Harrison Cadwallader—A. B. 1916; Ph. D. 1920—Rogers Fellow—(*Latin*)

Dallam, Mary Theresa—B. S. 1916—Instr. Western High School, Balt.—(*English*)

Diggs, Eleanor—A. B. Goucher 1915—Roland Park, Balt.—(*History*)

Dryden, Hugh Latimer—A. B. 1916, Ph. D. 1919—Bureau of Standards, Washington, D. C.—(*Physics*)

Dulac, Victor—A. B. George Washington 1915; Ph. D. 1920—Grad. Student—(*French*)

Hartman, Anabel Eugenia—A. B. Goucher 1908—Fellow—(*English*)

Owens, James Herbert—A. B. Rand. Macon 1904—Princ. High School, Havre de Grace, Md.—(*Education*)

Pelton, Nellie Frances—A. B. Oberlin 1912—Instr. State Normal Sch. Ellendale, N. Dak.—(*English*)

Richardson, Dorsey—A. B. 1915; Ph. D. 1920—Grad. Student—(*Political Science*)—[*Degree conferred Feb.* 22, 1918.]

Smead, Jane Van Ness—A. B. Univ. of Paris, 1916—Carlisle, Pa.—(*French*)

Smith, Lucile Douglas—A. B. Transylvania Univ. 1904—Instr. Ward-Belmont Sch. Nashville, Tenn.—(*English*)

White, William Harry Hazard—A. B. Harvard 1905—Balt. (2636 Maryland Av.)—(*Education*) (13)

1919

Angel, William Piper—A. B. Tennessee 1903—Prof. Physics, Univ. of Ky. Lexington—(*Physics*)

Behrens, Kathryn Laura—A. B. Goucher 1917—Grad. Student—(*History*)

Engle, Margaret Lorraine—A. B. New Windsor 1911—Washington—(*History*)

Fraser, Alexander David—A. B. Dalhousie 1910—Dalhousie Univ. Halifax, Can.—(*Classical Archaeol.*)

Harrison, Mary Ella—Ph. B. Chicago 1910—Instr. Western High School, Balt.—(*Classical Archaeol.*)

Sister M. Xavier (Higgins)—A. B. Mt. St. Agnes (Md.) 1913—Mt. St. Agnes Coll. Mt. Washington—(*Education*)

Sister M. Pius (Hyland)—A. B. Mt. St. Agnes (Md.) 1906—Mt. St. Agnes, Coll. Mt. Washington—(*History*)

Miller, Meta Helena—A. B. Goucher 1917—Instr. Wells Coll. Aurora, N. Y.—(*French*)

Sister M. Placide (Thomas)—A. B. Mt. St. Agnes (Md.) 1903—Mt. St. Agnes, Coll. Mt. Washington—(*Mathematics*) (9)

1920

(*February* 23, 1920)

Lednum, Margaret Irene—A. B. Goucher 1916—(*French Lit.*)

Bachelor of Arts

1914

Barton, Alexander Kirkland—Pikesville, Md.

Bowden, David Thomas, Jr.—M. D. 1918—Passaic, N. J.

Bridgman, Victor Horace, Jr. — Balt. (1754 Park Ave.)

Catlin, Herbert Edgar—Instr. Kent Sch. Kent, Conn.

Chenoweth, Laurence Benjamin—M. D. 1919—Albany Hosp. N. Y.

Coblentz, Richard Gilmore — M. D. 1918—Church Home and Infirm.

Corner, Henry Evans — Balt. (212 Ridgewood Rd.)

Davis, Francis Asbury — Balt. (1701 Park Av.)

Donoho, Edmond Shepard—Balt. (1706 Park Ave.)

Dorsey, George Edwin (F) — Ph. D. 1918—Geologist, Tulsa, Okla. (908 N. Main St.)

Dorsey, John Lanahan—M. D. 1918—Phys. Balt.

Everton, Wallace Roylance—Gen. Theol. Sem. (N. Y.) 1917 — Clergyman, Phila. (2013 Appletree St.)

Geissel, Walter Frederick—

Getz, Lawrence — M. D. 1918 — Phys. Balt.

Gminder, Albert Roland — Balt. City College.

Hahn, Frederick Adam—Teacher, Balt. (112 Augusta Av.)

Hammond, Albert Lanphier (F)—Asst. English.

Herman, Nathan Bernard—M. D. 1918—Asst. Res. City Hosp.

Hollyday, Guy Tilghman Orme — Balt. (Swan & Edmondson Aves.)

Howell, Roger (F)—Ph. D. 1917—Atty. at Law, Balt. (Calvert Bldg.)

Keiser, Samuel Jacob—Brooklyn, N. Y.

Lauchheimer, Malcolm Horace—Ph. D. 1917—Balt. (2122 Bolton St.)

Leibensperger, Raymond—

***Leland, Frank Kimball**—*February* 26, 1918.

Levy, Charles Sumner—M. D. 1918—Int. Hebrew Hosp. Balt.

***Lynch, Vernon**—Ph. D. 1918; Asst. Physiol. 1916-18—**July* 25, 1918.

Nachlas, Israel William—M. D. 1918—Asst. Clin. Orth. Surg.

Penniman, John Alexander Dushane—Balt. (922 Cathedral St.)

Porter, Clarence Chipley—M. D. 1918.

Powers, Donald Wales—

Randall, Blanchard, Jr.—Catonsville.

Rice, John Hubner—Catonsville.

Richmond, Harry Walker — Princeton Theol. Sem. 1917—Balt.

Sachs, Louis—M. D. 1918.

Schaffer, Aaron (F)—Ph. D. 1917—Balt. (2566 McCulloh St.)

Scharf, Carl (F)—A. M. 1916—Balt. (914 N. Stricker St.)

Schoenewolf, Arthur Martin — Catonsville.

Simpson, Kemper — Ph. D. 1917—Expert, Federal Trade Board, Washington.

Sinclair, Joseph Clement — **Clergyman,** Fowblesburg, Md.

Snyder, Charles Irvin—Balt. (711 Reservoir St.)

Steinmuller, Karl Josef—Balt. (327 N. Carrollton Av.)

Stiebel, Harold Leo—Lieut. U. S. R.

Supplee, Cochran—Balt. (U. S. F. & G. C.)

Sutton, Walter Degges — Missionary, Burmah.

del Valle, Carlos M.—

Weber, Carl Jefferson—Oxford (Rhodes Scholar 1914-17, A. B. 1917, A. M. 1920)—Asst. (*elect*) English.

***Wells, Clifford Almon**—Canadian Army 1914-17—**In action in France,* 1917.

White, Steuart D'Ohl—Garrett Bibl. Inst. 1917—Bristol, Ind.

Whitehill, Milford Henry—Balt. (2036 Eutaw Pl.)

Wilkins, Lawson—M.D. 1918—Balt. (6 N. Broadway.)

Yost, John Stevenson Long—Balt. (Calvert Bldg.)

Treide, Henry Ernest—Balt. (21 Hopkins Pl.) (Class of 1904)—[*Degree conferred October* 14, 1914.]

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1915

Baker, William Addison, Jr.—Coleman, Pa.

Baroway, Moses — Sec. Amer. Zionist Med. Unit, Jerusalem.

Bartlett, Joseph Thomas, Jr. — Greenfield, Mass.

Biser, Daniel Benton—Balt. (3710 Reisterstown Rd.)

Brinton, Wilmer, Jr.—Balt. (1232 N. Calvert St.) [*Degree conferred Oct.* 15, 1915.]

Brooks, Arthur Edward—Instr. McKendree Coll. 1915-17—Brownstown, Ill.

Cohn, Leopold Clarence—M. D. 1919—Res. Surg. St. Agnes Hosp. Balt.

Cole, Raymond Kenmore—Hercules Powder Co. Kenvil, N. J.

Deems, Charles Everard—Rochester Theol. Sem. 1918; Clergyman, Orange, N. J.

De Witt, John—Roland Park, Balt.

Ebaugh, Franklin Gessford—M. D. 1919—R. H. O.

Eiseman, Millard—Law School, Harvard.

Ford, Frank Rodolph—M. D. 1920.

Hall, George Martin—Balt. (511 E. 38th St.)

Hilgartner, Andrew Henry—Balt. (Homewood Apts.)

Hutzler, Joel Gutman David—Balt. (210 N. Howard St.)

Levinson, Charles William—Asst. Examiner, Patent Office, Washington

Lindau, Norman C.—(1800 Eutaw Pl.)

Merrick, William Spedden—Balt. (824 Park Av.)

***Nicholson, Norman Clive**—(**Feb.* 16, 1920.)

Niles, Alfred Salem, Jr.—Balt. (2010 Edgewood St.)

Perkins, Alvin Thomas — **Clergyman,** Congress Heights, D. C.

***Prince, Edmund Howard**—Lieut. U. S. A. **In action in France.*

Richardson, Dorsey—A. M. 1918; Ph. D. 1920—Grad. Student [*Degree conferred Oct.* 15, 1915.]

Sacks, Benjamin—M. D. 1919; Hebrew Hosp. Balt.

Short, John Saulsbury—Student of Law, Harvard.

Smith, Rush Wiley—Balt. (3600 Reisterstown Rd.)

Spencer, Emmette Rigdon—Clergyman, Annapolis.

Stewart, Harold J.—M. D. 1919—St. Luke's Hosp. New York.

Swartz, Joel Howard—Instr. McKendree Coll. 1915-16—Fellow.

Tarr, Frederick Courney—A. M. 1917.

Thompson, Stephen Ignatius — Balt. (712 N. Calhoun St.)

Troxell, Thomas Franklin—Balt. (3312 W. North Av.)

Uhler, Claud Irving—M. D. 1919—R. H. O.

Voshell, Allen Fiske—M. D. 1919—R. H. O.

Warren, Avra Melvin—Ellicott City, Md.

Weech, Charles Sewell — Balt. (5512 York Rd.)

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1916

Aler, Robert Edward Foster—Rochester Theol. Sem. 1919.

Baer, Ridgely Waters—M. D. 1920.

Bagley, Myron Everhart— [*Degree conferred Oct.* 3, 1916.]

Beck, Nathaniel Munroe—M. D. 1920.

Bell, Frederick Keller—M. D. 1920.

Coffin, Harrison Cadwallader — A. M. 1918; Ph. D. 1920—Rogers Fellow.

Cromwell, Guy Nelson—M. D. 1920

Dryden, Hugh Latimer—A.M.1918,Ph.D. 1919—Bureau of Standards, Washington.

Fader, Ira Brownold—Balt. (934 Brooks Lane)

Fricke, Robert Elmer—M. D. 1920.

Friedenwald, Jonas Stein—M. D. 1920.

Gichner, Manuel Gutman—M. D. 1920.

Hale, Robert William—

Hardy, Arthur Alexander — Evansville, Ind.

Hayes, Edward Pearce—Sec. Univ. Y. M. C. A.; Grad. Student.

Helfrich, Oregon Benson—Ph.D. 1920—Catonsville.

Ludington, George Franklin—Student of Law, Harvard.

McCormick, Miles Hutchinson—Stroudsburg, Pa.

McDowell, Clarence Whitford — Balt. (2621 N. Charles St.)

Melamet, Karl—Instr. Balt. Poly. Inst.

Milburn, Page, Jr.—Woodside, Md.

Primrose, Arthur Chipman—M.D. 1920.

Rosen, Raphael—A. M. 1920 — Balt. (2016 Madison Ave.)

Rosenthal, Emil—Balt. (Linden Av. and Chauncey St.)

Spieker, Edmund Maute—Grad. Student.

Stargardter, Albert Rosenstock — Balt. (Marlboro Apts.)

Tinges, Charles Howard—Balt. (1221 Bolton St.)

Tingley, Thomas Jay—Atty. at Law, New York.

Wade, Ira Owen—[*Degree conferred Oct.* 3, 1916.]

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1917

Bagley, Cecil Hopkins—Med. Student.

Baker, Lawrence Henry—Ph.D. 1920—Fellow; Instr. (elect), English and History.

Brooks, James Vincent, Jr.—Balt. (3314 Alto Ave.)

Brower, Albert P.—Balt. (Hamilton).

Chen, Ho-Chin—Nanking, China.

Conn, Bernard Herman—Law School, Harvard.

Cushing, Thomas Morris—Instr. English.

Davis, Allan Conradt—Balt. (1701 Park Av.

Dawson, Frank William—Balt. (207 N. Carey St.)

Doermann, John Emil Andrew—Washington, D. C.

Durr, William Bantz—Balt. (1909 Longwood St.)

Edgett, Eugene Albert—Instr. Balt. City Coll.

Edlavitch, Ernest—Med. Student.

Firor, Warfield Monroe—Med. Student.

France, Robert—Balt. (219 W. Lanvale St.)

Frank, Harry Ferdinand William—Balt. (Hamilton.)

Gontrum, Thomas McCauley — Raspburg, Md.

Gorman, Howard Jennings—Lieut. U. S. Artillery; Balt. (The Guilford)

Hall, Frederick Parrot—Balt. (U. S. F. & G. Co.)

Hobelmann, Herman August—Balt. (2110 E. Pratt St.)

Houghton, Ira Luther—Med. Student.

Hurwitz, Chester Ezekiel—Med. Student.

Knipp, John Christian—Balt. (2210 Eutaw Pl.)

Loague, Walter Cecil—Student, Garrett Bibl. Inst. Evanston, Ill.

McKewen, William Archibald — Balt. (1508 John St.)

Merrick, Robert Graff—Grad. Student.

Mowbray, John McConkey—Pikesville.

Naylor, Louis Hastings—Grad. Student.

Oppenheimer, Reuben—Law Student, Harvard.

Pitt, Charles Gordon—Balt. (200 E. Preston St.)

Roop, John Daniel, Jr.—B. S. in Eng. 1917—Linwood, Md.

Rosenau, William Helman—Med. Student.

Scarborough, Harold Ellicott—Towson, Md.

Shaw, Edwin Orville—Med. Student.

Skinner, William Howser—Balt. (Park Heights Av.)

Smith, Edmund Law Rogers—Balt. (709 Park Av.)

Smith, Randolph—Balt. 103 W. Monument St.)

Smith, Wesley Royston—Glenarm, Md.

Steinbach, Alexander Alan—Balt. (114 S. Chester St.)

Sutton, Paul Windom—Med. Student.

Weech, Alexander Ashley—Med. Student.

Wilson, Francis Howard—Wilna, Md.

(42)

1918

Breit, Gregory—A. M. 1920; Fellow, Physics—[*Degree conferred Oct.* 1, 1918.]

Bryan, Cecil Austin — Balt. (2812 W. North Ave.)

Chalmers, Allan Knight—Grad. Student, Yale.

Chu, Jennings Pin-Kwei—Student, Columbia Univ.

Cover, Millard James—Denver, Colo. (165 Franklin St.)

Eby, James Brian—Grad. Student.

Golder, Archibald—Balt. (3508 Fairview Av.)

Hall, Cayton Morris—Grad. Student.

Hamburger, Adolf Lawrence — Student, Harvard.

Hoffman, William Samuel—Grad. Student.

Jarrett, Edwin Bosley—Med. Student.

Knoop, Johann Hinrich—Germany.

Kohn, Bernard Louis Benno—Mt. Washington, Md.

Lenhard, Raymond Early—Med. Student.

Levy, Isidore Irvin—Med. Student.

Levy, Lester Stern—Balt. (2352 Eutaw Pl.)

Love, William Samuel, Jr.—Med. Student.

McGuigan, Cletus Edmund—Med. Student.

Mechanic, Morris Abel—Grad. Student.

Merryman, Lewis Carl—Towson, Md.

Michelson, Israel David—Med. Student.

Miegel, Charles Hermann—Grad. Student.

Miller, Jay Jefferson—Balt. (Esplanade Apts.)

Morley, Frank Vigor—Grad. Student; Rhodes Scholar (*elect*), Oxford.

Neuhausen, Benjamin Simon — Grad. Student.

Norris, Grover William—Balt. (1802 N. Fulton Av.)

Rothschild, Morton Kahn—Balt. (2124 Brookfield Ave.)

Sanner, J. Everett—Med. Student.

Sapp, Charles Daniel—Clergyman, Balt. (1425 Federal St.)

Smith, David Petit, Jr. — Nashville, Tenn. (814 Meridian St.)

Spiers, Tomas Hoskins—Grad. Student, Columbia.

Sun, Ko-Chi—Med. Student.

Wasserman, Harry—Med. Student.

Wells, William John Henry Braden—Med. Student.

Woodward, Richard Henley, Jr.—Balt. (1307 John St.)

Extra Ordinem

The following enlisted in the military service of the Government after completing three years' work:

Clark, Stanley Irving—Balt. (4208 Belview Ave.)

Connolly, Lloyd Brooks—Baldwin, Md.

Cort, Hugh—Overlea, Md.

Cromwell, Martin John—Lake Roland, Md.

Cromwell, Walter Franklin—Lake Roland, Pa.

Duncan, Robert Reginald—Student of Law, Harvard.

Egerton, Stuart Wilson—Med. Student.

Evans, Henry Cotheal—Balt. (Calvert Hall Apts.)

Jacobsen, Alfred Wilmot—Med. Student.

Kohn, Martin Benno—Mt. Washington, Md.

Randall, Alexander—Med. Student.

Sutton, Franklin Wilson—Balt. (1735 Bolton St.)

Swartz, William Hamilton—Balt. (Windsor Park)

Taylor, Walter Lee—Catonsville, Md.

(49)

1919

Baroway, Aaron Bear—Balt. (2554 McCulloh St.)

Beard, Leslie Carrington, Jr.—Graduate Student.

Bloom, William—Med. Student.

Carneal, George Upshur—Med. Student.

Chang, Hsin-Hai—Graduate Student, Harvard.

Ebeling, Karl Wilhelm—Med. Student.
Fenneman, Frank Thomas—Balt. (1508 Poplar Grove St.)
Fisher, Morton Poe—Balt. (704-705 Union Trust Bldg.)—(*extra ordinem.*)
Frisch, John Wilcox—Balt. (314 Woodlawn Rd. R. P).
Ginsberg, Leon Morris—Balt. (734 W. North Ave).
Grave, Thomas Brooks—Grad. Student.
Greenwald, Leon—Med. Student.
Guttmacher, Alan Frank—Med. Student.
Guttmacher, Manfred S.—Med. Student.
Harris, Joseph—Med. Student.
Hecht, Stewart Emanuel—Balt. (1616 Eutaw Pl.)
Hoper, Arthur Upshur—Student of Law, Harvard.
Kellum, Lewis Burnett—Tulsa, Okla.
Kirk, Harris Elliott, Jr.—Balt. (502 Cathedral St.)
Kriegel, Philip—Balt. (2503 McCulloh St.)
Lachman, George—Med. Student.
Miller, Henry S.—Balt. (Esplanade Apts.)
Novey, Max Alexander—Med. Student.
Rivkin, Sampson—Washington, D. C. (2375 Champlain St.)
Schiavo, Giovanni Ermenegildo—Grad. Student.
Shpritz, Nathan—Balt. (1228 McCulloh St.)
Siegel, Isadore Abraham—Med. Student.
Simon, Leo William—Washington (2802 Cathedral Ave.)
Smith, Beverly Waugh, Jr.—Law Student, Harvard.
Stanley, John Snowden—Laurel, Md.
Thomsen, Roszel Cathcart — Balt. (4 Midvale Rd., R. P.)
Tull, James LeRoy — Annapolis (29 Franklin St.)
Vandermast, Adolph Polland—Colgate, Md.
Vickers, James Leonard — Huntington, W. Va. (919 Fifth Ave.)
Warthen, William Horace Franklin — Med. Student.
Williams, Tiffany Johns—Med. Student.
Yu, Chai Lan—
Wight, Carol Van Buren—Rogers Fellow (*elect*)—[*Extra ordinem, October,* 1910.]

1920

Lou, Kwang Lai—Grad. Student, Harvard. [*February* 23.]

(38

Bachelor of Science in Engineering

1915

Gorsuch, James Stanley—S. B., Md. Agric. 1909—Engr. State Dept. Hlth, Hyattsville, Md.—(*Mechanical*)
Lednum, James Maynard—S. B. Md. Agric. 1912—Engr. Davison Chem. Co. Curtis May, Md.—(*Mechanical*)
Wolman, Abel—A. B. 1913—Engr. State Dept. of Health, Balt.—(*Civil*)

(3)

1916

Barron, David Howard—2d Lieut. Engineers, U. S. R.—(*Civil*)
Brumbaugh, Isaac Vernon—A. B. West. Md. 1913—Bureau of Standards, Washington—(*Civil*)
Cockey, James Powell—Wash'gton (1014 17th St., N. W.
Hutton, Ulric Orlando—Grad. Student. —(*Electrical*)
Iddings, Frederick T.—Catonsville, Md.—(*Mechanical*)
Johnston, David Humphrey, Jr.—(*Electrical*)
Reier, George Conrad—A. B. Washington (Md.) 1913—Amer. Tel. & Tel Co. New York (195 Broadway)—(*Electrical*)
Tobias, Abraham—Balt. (408 Druid Hill Ave.)—(*Electrical*)
Webster, James Gwinn—Balt. (2798½ Alameda Ave.)—(*Electrical*)
Willis, Clodius Harris—S. B. Richmond 1914—Lignum, Va.—(*Electrical*)
Winslow, George Leiper — A. B. St. John's 1912; S. B. Haverford 1913—(1823 Wallace St., Philadelphia)—(*Civil*)
Woodward, Hiram Woods—(1307 John St.)—(*Mechanical*)

(12)

1917

Baker, Henry Scott—Washington (1816 Eye St. N. W.)—(*Electrical*)
*Baxley, William Brown—2d Lieut. Engineers — (*Mechanical*) — **In France, Aug.* 1, 1918.
Black, Charles Warren—Balt. (1201 W. Mulberry St.)—(*Civil*)
Bryan, Guy Lee, Jr.—Instr. Descr. Geom. —(*Civil*)
Cecil, William Downes—Cincinnati (205 Central Union Sta.)—(*Mechanical*)
Chesley, Charles Webster — Charlotte Hall, Md.—(*Mechanical*)

Cohen, Hyman Abraham—Balt. (2462 Buchanan St.)—(*Electrical*)

Crist, Francis Murray— (*Civil*)

Darley, J. Wilmerton—(1518 N. Broadway)—(*Mechanical*)

Defandorf, John L.—Milwaukee, Wis. (265 31st St.)—(*Mechanical*)

Evitt, Raymond Wilson — Balt. (Ten Hills)—(*Mechanical*)

Hall, Elbridge Gerry—(4207 Potter Ave.)—(*Electrical*)

Howard, Stanley Lewis—Draftsman, Baltimore (Woodrow Apts.)—(*Civil*)

Junkins, Albert Benton—Ches. & Potomac Tel. Co.—(*Electrical*)

Levin, Jacob—(*Mechanical*)

Levin, Morris—Balt. (2024 Madison Ave.)—(*Mechanical*)

Meyerhoff, Louis—(101 State St., Perth Amboy, N. J.)—(*Electrical*)

Owings, Noble L.—(621 N. Fulton Av.)—(*Civil*)

Perkins, Edward Everett, Jr.—Goodrich Rubber Co. Akron, Ohio—(*Electrical*)

Reiner, Milton—Crown Cork & Seal Co.—(*Electrical*)

Roop, John Daniel, Jr.—A. B. 1917—Linwod, Md.—(*Civil*)

Schaeffer, Carl Lawyer—A. B. West. Md. 1914—Westminster, Md.—(*Civil*)

Silberstein, Eli—Draftsman, Balt. (145 Jackson Pl.)—(*Civil*)

Smith, Egbert Leroy—Jarrettsville, Md.—(*Civil*)

Straus, Henry Lobe—Balt. (4007 Penhurst Ave.) — Instr. 1919-20. — (*Mechanical*)

Strobel, Peyton Brown—Balt. (2110 Brookfield Ave.)—(*Mechanical*)

Stuart, Edward Merceron—Balt. (3216 Auchentoroly Terr.)—(*Mechanical*)

Thompson, Joseph Trueman—Inst. Civil Eng.—(*Mechanical*)

Twigg, John Milton—Flintstone, Md.—(*Mechanical*)

Upperco, Jesse Myron—Boring, Md.—(*Mechanical*)

Wacker, Herman, Jr.—Balt. (C. & P. Tel. Co.)—(*Mechanical*)

Watson, John Stuart—Chemist, Berkeley, Cal. (*Mechanical*)

Webb, William David—DuPont Co., Nashville, Tenn.—(*Civil*)

Weeks, Walter Evans—Balt. (108 E. Lexington St.)—(*Mechanical*)

Winchester, Bertram Seager — Balt. 2629 St. Paul St.)—(*Electrical*)

Wood, Walter Alexander, Jr.—Instr. Yale.—(*Civil*)

Young, Louis McComas—Boonsboro, Md.—(*Electrical*)

(37)

1918

Bitter, Kenneth Oscar—Glenarm, Md. (*Mechanical*)

Canton, Eugene Jude—Balt. (5407 N. Carrollton Ave.)—(*Mechanical*)

Cullom, Kenneth Stetson—Balt. (3618 Springdale Ave.)—(*Mechanical*)

Downey, John Jones—Arlington, Mass.—(*Civil*)

Ewald, Harry William—(*Electrical*)

Fonaroff, Frank Israel—Balt. (1044 W. Franklin St.)—(*Mechanical*)

Harris, George Sylvester—Junior Lieut. U. S. N.—(*Electrical*)

Hopkins, Henry Hinkson—Pottstown, Pa. (438 Hight St.)—(*Civil*)

Jammer, Jacob Suter—Western Electric Co., New York (463 West St.)—(*Electrical*)

Kauffman, Erman Reed—Westinghouse Co., Philadelphia (828 S. 48th St.)—(*Mechanical*)

Konze, John Edwin—Naval Aviation; Balt. (3419 Beech Av.)—(*Electrical*)

Lampe, John Harold—Asst. (*elect*)—(*Electrical*)

O'Neill, George Devine—Balt. (1601 E. Lafayette Ave.)—(*Civil*)

Rosenthal, Jacob Stanley— (*Civil*)

Weil, Joseph — Westinghouse Co., E. Pittsburgh, Pa. (5409 Corral St.)—(*Electrical*)

Winslow, Oliver Parry—Tulane Univ., New Orleans—(*Electrical*)

Wolfe, Alexander McWhorter — Balt. (1931 St. Paul St.)—(*Civil*)

Zeskind, Louis Morris—Balt. (1641 N. Bond St.)—(*Civil*)

Extra Ordinem

The following enlisted in the military service of the Government after completing three years' work:

Dempster, Ryland Newman—Grad. Student.

Kauffman, Jacob Franklin — Ridgely, Md.

Martz, Roger Edwin—Boonsboro, Md.

McCabe, Arthur Summerfield—

Stapleton, Edward Guy—Balt. (2518 Maryland Ave.)

Sullivan, Bernard Aloysius—Norfolk, Va.

Van Hulsteyn, John Max Carey—Balt. 1304 John St.)

Young, John Walter—Boonsboro, Md.

(26)

1919

Baxley, Charles Herbert—Balt. (1128 W. North Ave.)

Chisholm, Theodore Livings — Garrett Park.

Cook, William Dodd—Balt. (2204 Chelsea Ave.)

Dehler, Frank C.—Balt. (725 E. 22d St.)

DeMarco, John Lawrence—Mt. Washington.

Doub, Cyrus L.—Braddock Heights.

Gottling, Philip Frederick—Grad. Student.

Hancock, Milton Livingstone—

Keefer, Clarence E.—Balt. (235 N. Stricker St.)

Rosenfeld, Benjamin—Balt. (3201 Presbury St.)

Schmidt, Carl Walter—Balt. (1718 Light St.)

Seebe, Adolf—Denver, Col. (1618 Pennsylvania St.)

Sonneborn, David Bamberger — Balt. (2407 Brookfield Ave.)

Startzman, Henry Hollingsworth—Wilkinsburg, Pa. (7715 Brashear St.)

Taylor, Arthur Walton—Balt. (2205 Barclay St.)

Truitt, Benjamin Thomas, Jr. — Snow Hill, Md.

Vickers, James Kennedy, Jr.—Balt. (302 Woodlawn Rd., R. P.)

Zahn, Charles Thomas—Grad. Student.

(18)

Bachelor of Science

1916

Dallam, Mary Theresa—A. M. 1918—Instr. Western High Sch. Balt.

Johnson, Mary Stella—Teacher, Thomson, Ga.—[*Degree conferred October 3*]

Seifriz, William Ernest—Ph. D. 1920—Bruce Fellow, 1918-19. Univ. Fellow (*elect*).

Stephens, Martha Blades — Teacher, Balt. (2223 Callow Av.)

(4)

1917

Buchholz, Agnes Emilie—Teacher, Balt. (734 Reservoir St.)

Eutsler, Keener Wilson—Teacher, Rainelle, W. Va. [*Degree conferred Oct. 2, 1917.*]

Schad, Harry—Instr. Teachers Trg. Sch. Balt. [*Degree conferred Oct. 2, 1917.*]

Wirth, Elsie Louise—Teacher, Balt.

(4)

1918

Brown, Meyer—Teacher, Balt. (128 N. Exeter St.)

Gordon, J. Raymond—Liverpool, W. Va.

Grape, Jacob—A. M. 1920—Grad. Student.

Hutton, Philena M.—Teacher, Kingsville, Md.

Krieger, Joseph Louis—Balt. (16 Irvine Place)

Thomas, Catherine Bowie Clagett — Balt. (N. Calvert St.)

(6)

1919

Gallagher, Grace—New York (1066 St. Nicholas Ave.)

Grote, Caroline Elise—Teacher, Balt. 3202 Vickers Rd.)

Mann, Natha Annette—Teacher, Balt. (2647 N. Calvert St.)

Owens, Glenn Worthington—Balt. (1113 N. Fulton Av.)

Ditty, Augusta Fredericka—Instr. West. High School Balt.

(5)

1920

(*February* 23)

Epstein, Alfred — Cornell Univ. Med. School, New York.

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