

THE JOHNS HOPKINS UNIVERSITY  
BALTIMORE

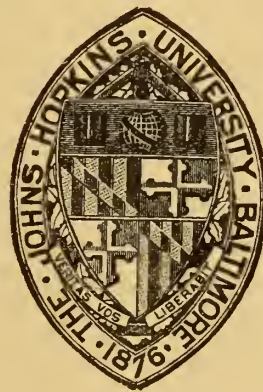
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# CONFERRING OF DEGREES

AT THE CLOSE OF THE FIFTY-FOURTH ACADEMIC YEAR

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JUNE 10, 1930



IN THE LYRIC THEATRE

AT 4 P. M.

## MARSHALS

Professor WILLIAM O. WEYFORTH  
*Chief Marshal*

### *Aids*

Professor G. H. CARTLEDGE  
Dr. R. T. ABERCROMBIE  
Dr. G. H. EVANS  
Mr. M. W. PULLEN

Dr. E. E. FRANKLIN  
Dr. E. C. ANDRUS  
Professor W. W. FORD  
Professor J. HART

### USHERS

J. FRANCIS BLEDSOE  
*Chief Usher*

LEROY T. ANSTINE  
GEORGE H. DOWELL  
EDWARD V. FINERAN  
GERALD LEE GORDON  
JOSEPH B. KUHN  
SWEETSER LINTHICUM

CHARLES R. PFEFFER  
CLAUSEN A. ROBECK  
EDWARD G. RUARK  
FRANCIS W. WARLOW  
NEWTON B. WOOD.  
CHARLES E. YOUNG

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## MUSIC

The program is under the direction of Philip S. Morgan and will be presented by the Johns Hopkins Orchestra, Bart Wirtz, Conductor. The orchestra was founded in 1919 by the Johns Hopkins Musical Association, organized for the promotion of good music in the University and community, the officers of which are Philip S. Morgan, of the Johns Hopkins Alumni Association, *President*; Jonas Hamburger, *Vice-President*; Professor Frank Morley, *Secretary*; Ferdinand C. Smith, *Executive Secretary*; John B. Whitehead, *Treasurer*; S. Page Nelson, *Assistant Treasurer*. Seventy-five symphony concerts have been given, and the orchestra, which is composed chiefly of amateurs, has played on twenty-two occasions for public exercises of the University.

# ORDER OF EXERCISES

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## I

### ACADEMIC PROCESSION

“March Militaire”—*Schubert*

## II

### INVOCATION

The Reverend Harris E. Kirk, D. D.

## III

### ADDRESS

THE PRESIDENT OF THE UNIVERSITY

## IV

“Suite for Strings”—*Grieg*

## V

### CONFERRING OF DEGREES

Bachelors of Arts, presented by Dean BERRY

Bachelors of Engineering, presented by Dean WHITEHEAD

Bachelors of Science in Chemistry, presented by Dean WHITEHEAD

Bachelors of Science in Economics, presented by Professor HOLLANDER

Bachelors of Science, presented by Professor BAMBERGER

Recipients of Certificates in Public Health, presented by Professor HOWELL

Masters of Arts, presented by Professor MILLER

Doctors of Education, presented by Professor BAMBERGER

Doctors of Engineering, presented by Dean WHITEHEAD

Doctors of Public Health, presented by Professor HOWELL

Doctors of Science in Hygiene, presented by Professor HOWELL

Doctors of Medicine, presented by Dean CHESNEY

Doctors of Philosophy, presented by Professor MILLER

## VI

PRESENTATION OF COMMISSIONS IN THE OFFICERS' RESERVE CORPS

## VII

Presentation of Portrait of the late Dr. EDWARD FRANKLIN BUCHNER,  
by Mr. Ivan Olinsky

Dr. DAVID E. WEGLEIN

## VIII

### ANNOUNCEMENTS

THE PRESIDENT OF THE UNIVERSITY

## IX

“Stars and Stripes Forever”—*Sousa*

## X

BENEDICTION

# CANDIDATES FOR DEGREES

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## BACHELORS OF ARTS

LEONARD JEROME ABRAMOVITZ, of Maryland  
ROBERT STEWART BAIRD, of Maryland  
LEON BERNARD BIELINSKI, of Pennsylvania  
STEWART BROWN, of New York  
WALTER IRVING CHAPMAN, of New Jersey  
WILLIAM PINKNEY CRAIG, JR., of Maryland  
STANLEY LEONARD DENISON, of Maryland  
VLADIMIR JOSEPH DONAT, of Maryland  
JULIAN EDMOND, JR., of Maryland  
BENJAMIN FLEISHER, of New York  
PAUL TREIDE FRISCH, of Maryland  
JASON HOWARD GASKEL, of North Carolina  
JAMES ROBERT GIBBONS, of Maryland  
HAROLD HABICH GOLZ, of New Jersey  
WENDELL LAFON GRAY, of Georgia  
LYLE FOXWELL GULLEY, of Wisconsin  
GEORGE GUMP, of Maryland  
WILLIAM PURNELL HALL, JR., of Maryland  
RICHARD GABRIEL HUNT, of Maryland  
HUGH CALVIN ILGENFRITZ, of Maryland  
OLIVER BURNS ISAAC, of Maryland  
EVANDER FRANCIS KELLY, JR., of Maryland  
BURRELL GRESHAM KILMER, of Maryland  
GEORGE WALTER KNIPP, of Maryland  
MANUEL LEVIN, of Maryland  
HARRY LEVINE, of New York  
SIDNEY LINAS, of Maryland  
WILLIAM ARNOLD LIVINGSTON, of Indiana  
MILTON EDWARD LOWMAN, of Maryland  
OSCAR MARTÍNEZ GÓMEZ, of Mexico  
DONALD CARRUTH McCOLLUM, of Maryland  
ELLIOTT MICHELSON, of Maryland  
JOHN RANDOLPH MOORE, JR., of Maryland

WILLIAM FREDERICK NICKEL, JR., of New York  
ANGELO ROCCO ONORATO, of New York  
JAMESON PARKER, of Maryland  
THOMAS PIERCE PERKINS, JR., of Maryland  
HAROLD EDWIN PETERS, of Maryland  
FRANCIS NELSON PILLING, of Maryland  
KENNETH ELWOOD QUICKEL, of Pennsylvania  
SIDNEY RAFFEL, of Maryland  
MILTON ROBINSON, of New York  
LAWRENCE HUNTLEY ROGERS, of New York  
MICHAEL JOSEPH ROMANO, of New York  
JOSEPH FRANCIS ROONEY, of New York  
MYER ROSENFELD, of Maryland  
STEPHEN ISAAH ROSENTHAL, of Pennsylvania  
NICHOLAS MEOLO RUBINO, of New Jersey  
GEORGE SCOTT RUCKER, of Virginia  
HERMAN SHAPIRO, of Maryland  
PAUL PHILIP SHUSTER, of Massachusetts  
ROBERT FRANK SKUTCH, JR., of Maryland  
STEWART LEE SMITH, of Maryland  
BERNARD WALTER SOLLOD, of Maryland  
PAUL WILLIAM SPEAR, of Maryland  
JOHN McENTIRE STEWART, of New Jersey  
HAYWARD BALDWIN STREETT, of Maryland  
OSCAR HENRY STÜDE, of Maryland  
GEORGE GERALD TRATTNER, of New York  
MERRILL FREDERICK UNGER, of Maryland  
FREDERICK CHAUNCEY WARRING, JR., of Maryland  
SAMUEL CARSON WASSON, of Maryland  
TOBIAS WEINBERG, of Maryland  
WILLIAM DAVID WOLFE, of Maryland  
SIDNEY WOLK, of Maryland  
RICHARD CYRIL WOODALL, of Maryland

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## GRADUATING WITH HONOR

GEORGE GUMP

MERRILL FREDERICK UNGER

HAROLD EDWIN PETERS

## BACHELORS OF ENGINEERING

RAYMOND PAINE ALLEN, JR., of Maryland  
ADOLPH ANDERSON, of Maryland  
CHARLES EDWARD BAILEY, of Maryland  
EDWARD JAMES BATEMAN, of Maryland  
CHARLES CORNER BROWNLEY, of Maryland  
HOWARD ADDISON CAMPBELL, of Maryland  
HENRY ELLSWORTH CARMINE, of Maryland  
JOHN WILLIAM CARROLL, of Pennsylvania  
WILLIAM HERBERT CRANE, JR., of Maryland  
THOMAS JAMES DWYER, of Pennsylvania  
MARTIN ANDERSON ELLIOTT, of Maryland  
JOHN ENGALITCHEFF, of Maryland  
JOSEPH FERRARINI, of Maryland  
KARL WILHELM FLOCKS, of Maryland  
KENNETH ELMER GARDNER, of Maryland  
JULES LOUIS GAUTHEY, of Maryland  
HENRY FOOTE GIBBS, of Maryland  
MAX GOLDSTEIN, of Maryland  
ELLIS SAMUEL GORDON, of Maryland  
LOUIS ARTHUR HERSTEIN, JR., of Maryland  
JOHN ELLIOTT KEYES, JR., of Maryland  
LEON ADOLPH KREBS, of Maryland  
HARRY LLOYD LE COMPTE, JR., of Maryland  
JOSEPH PETER LEDVINA, of Maryland  
HARRY ADAIR LOVE, of Maryland  
ROBERT LONSDALE McALL, of New York

LOUIS WENDELL MARKS, of Maryland  
WILLIAM HENRY MATTHEISZ, of Maryland  
WILLIAM JOHNSON MERCHANT, of Maryland  
MAURICE DOWNING MEYERS, of Maryland  
WILLIAM SAMUEL MILLER, of Maryland  
EDWARD ESAU MINOR, JR., of Maryland  
JOSEPH LEONARD DANIEL MISORA, of Maryland  
HARWOOD FRANKLIN MULLIKIN, JR., of Maryland  
JEROME OSCAR NEUMAN, of Maryland  
WINSTON RANDOLPH NEW, of Maryland  
ARTHUR WILLIAM OLSEN, of New Jersey  
ISADORE ALVIN PASAREW, of Maryland  
MICHAEL JOHN POLIVANOV, of Russia  
JOHN ABDA PURCELL, of Alabama  
HENRY OLIVER REDUE, JR., of Maryland  
CHARLES CHARRETTON REEDER, of Maryland  
MILTON HAROLD RUARK, of Maryland  
HARRY BRISCOE SANNER, of Maryland  
KENNETH BERNARD SHAVER, of Maryland  
MARTIN LOUIS SINGEWALD, of Maryland  
GEORGE FRANCIS STAFFORD, of Maryland  
JOSEPH VALENTINE STUMPF, of Maryland  
CARY DAVIS TUCKER, of Maryland  
ARTHUR ALEXIS VARELA, of District of Columbia  
JOHN MOSELEY WALKER, JR., of Maryland  
HARRY EDGAR WILMOTH, of Maryland

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### GRADUATING WITH HONOR

JOHN WILLIAM CARROLL  
MARTIN ANDERSON ELLIOTT  
LOUIS WENDELL MARKS

WILLIAM JOHNSON MERCHANT  
WINSTON RANDOLPH NEW

## BACHELORS OF SCIENCE IN CHEMISTRY

CHARLES JOHN CZARNESKI, of Pennsylvania  
JOSHUA SHELTON HULL, JR., of Maryland  
HARRY ROSWELL JONES, of Maryland

MILTON LIPNICK, of Maryland  
LEROY SHUGER, of Maryland  
FRED BARNES SLAGLE, of Maryland

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### GRADUATING WITH HONOR

MILTON LIPNICK

FRED BARNES SLAGLE

## BACHELORS OF SCIENCE IN ECONOMICS

RICHARD HOCHSCHILD BERNEY, of Maryland  
MARCUS M. BERNSTEIN, JR., of Maryland  
JOSEPH MICHAEL BRANDON, of Connecticut  
JOHN HOWARD CLARK, of Maryland  
DONALD FOLLMER, of Maryland  
GEORGE MORSE GLAZIER, of Maryland

FRANKLIN PURNELL GOULD, of Maryland  
GEORGE ALEXANDER KAY, JR., of Maryland  
FRANCIS EDWARD RUGEMER, of Maryland  
MAXWELL SAUERWEIN, of Maryland  
WALTER DONELSON SCHEID, of Maryland  
WILLIAM FRANCIS VAUGHAN, of Arizona

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## BACHELORS OF SCIENCE

BERNARD ADES, of Maryland  
MOSES APPEL, of Maryland  
ANNA ROSALIE BECKER, of Maryland  
WILLIAM HOWARD BOCKMILLER, of Maryland  
SARAH HIGGINSON BOWDITCH, of Massachusetts  
BERNICE EDITH BROWN, of Florida  
ELIZABETH VIRGINIA BROWN, of Maryland  
EMILY LEONORE BUCHHOLZ, of Maryland  
ATLA MARINA BURROUGHS, of Maryland  
MARTHA BUSCHMAN, of Maryland  
BETH McLEAN CAPLES, of Maryland  
LOUISE ELIZA CARPER, of Maryland  
DORIS VIRGINIA CHURCH, of Maryland  
ANNA ELEANOR COOPER, of Maryland  
ELIZABETH CRUMMER, of Maryland  
HENRY JACOB EBERLE, of Maryland  
RUTH FINKELSTEIN, of New York  
SYLVIA ESTELLE FISHER, of Maryland  
VIOLA FOX, of Maryland  
LILLIAN MAUDE GERHARDT, of Maryland  
ADA GOLDBERG, of Maryland  
RICHARD ROBINSON GRIFFITH, of Maryland  
HELEN LOUISE GUIDER, of Maryland  
IRENE ELIZABETH HABNICHT, of Maryland  
HELEN AGNES HENSEN, of Maryland  
VIRGINIA CATHERINE HOLLOWAY, of Maryland  
DOROTHY TILGHMAN HOLLYDAY, of Maryland  
MADELINE ELIZABETH IRVIN, of Maryland  
CATHERINE ELIZABETH JACKSON, of Maryland  
MASON HERBERT KING, of Maryland  
JAMES LOUIS KUETHE, of Maryland  
NANNETTE SCHLICHTER LEVIN, of Maryland  
JEANNETTE BERNICE LEVY, of Maryland  
ARTHUR LICHTENSTEIN, of Maryland  
EMMA LOHRFINK, of Maryland  
NANCY FROOME LONG, of Maryland  
MATILDA BACKUS MALOY, of Maryland  
MARTHA GERTRUDE MASON, of Maryland  
MARY EDNA MAY, of Maryland  
CATHERINE CIRIL McALLISTER, of Maryland  
HELEN DORIS McALLISTER, of Maryland  
DOROTHY CATHERINE McCUSKER, of Maryland  
MARJORIE MARIE MCGONIGLE, of Maryland  
DIENA DE KRYGER-MONSMA, of Maryland  
HAROLD EUGENE MOSER, of Maryland  
GEORGE HOWARD MURDOCK, of Maryland  
MARY GRACE PARKER, of Maryland  
RUTH PARKER, of Maryland  
MIRIAM MERLE PEAR, of Virginia  
LENA PICKER, of Maryland  
LILLIAN EDEN RAWLINS, of Maryland  
RUTH RICHARDS, of Maryland  
LINDRED CATHERINE RIEHL, of Maryland  
STELLA ROSENSTEIN, of Maryland  
HYMAN SACHS, of Maryland  
MARGUERITE LAURA SCHMIDTMAN, of Maryland  
BARBARA SCHUNCK, of Maryland  
ALICE GERTRUDE SHUTT, of Maryland  
HELEN MATILDA STEGMAN, of Maryland  
ELIZABETH MAY TOBER, of Maryland  
JOSEPHINE TURNBULL, of Maryland  
MILDRED ELIZABETH TYSON, of Maryland  
EDITH VIRGINIA WALKER, of Maryland  
RUTH PERKINS WEAVER, of Maryland  
ANITA RYTTEBERG WEINBERG, of Maryland  
LOUISE WYNN WEST, of Maryland  
HESTER CECELIA WHITFIELD, of Maryland  
GERTRUDE ADA YOUNG, of Maryland

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## RECIPIENTS OF CERTIFICATES IN PUBLIC HEALTH

WALTER FRANK COBB, of Maryland, B.P.E. International Y. M. C. A. College 1906; M.D. Columbia University 1911.  
SVASTI DAENGSVANG, of Siam, G.M. Chulalongkorn University 1928.  
CHRISTO DANOFF, of Bulgaria, M.D. University of Sofia 1924.  
JESSE COX ELLINGTON, of Tennessee, A.B. and M.D. Vanderbilt University 1922 and 1925.  
GEORGE SEPTIMUS ESCOFFERY, of Jamaica, M.B., Ch.B. Marischal College, University of Aberdeen 1918.  
JOSE EDUARDO GONZÁLEZ, of Guatemala, M.D. University of Guatemala 1927.  
ONIS GEORGE HAZEL, of Oklahoma, Ph.G., S.B. and Ph.C. University of Oklahoma 1921 and 1923.  
SHIH-CHIN HSU, of China, M.D. National Medical College 1923.  
MARIANO C. ICASIANO, of the Philippine Islands, A.B. Ateneo de Manila 1914; M.D. University of the Philippines 1920.  
FANG-YUNG LI, of China, M.D. Peiping Union Medical College 1928.  
VINCENZO MARINO, of Italy, G.M. and S. University of Catania 1923.  
WILLIAM LELAND MITCHELL, of Illinois, M.D. Washington University 1918.  
LI-KOUO OU, of China, M.D. Aurora University 1926.  
DIEGO HERNANDEZ PACHECO, of Spain, L.M. University of Madrid 1922; M.D. 1923.

- LUANG SIRIBAED-BISUDDHI, of Siam, G.M. Chulalongkorn University 1916.
- FANG-YUAN TAI, of China, M.D. Peiyang Medical College 1925.
- NARAYANAN KRISHNAN TAMPI, of India,, M.B.B.S. Madras 1921; B.S.Sc. 1923.
- PATTAWEEED GOVINDAN GOVINDAN UNNITHAN, of India, L.M.S., Madras Medical College 1921; B.S.Sc. 1923; M.B.B.S. 1924.
- LOUIS FRANÇOIS VIDAL, of France, B.Sc. e Lett. Stanislas College 1917; M.D. University of Paris 1927.
- TSU-HSIANG WANG, of China, M.D. Naval Medical College 1922.
- ANDREW JACKSON WARREN, of North Carolina, M.D. Tulane University 1914.
- CLIFFORD WEBB WELLS, of New York, S.B. Grinnell College 1910; M.D. University of Chicago 1914.
- WILLIAM EDWARD WILSON, of Alabama, S.B. University of Alabama 1922; M.D. University of Tennessee 1924.
- YUNG-TSUNG YAO, of China, M.D. Provincial Medical College of Chekiang 1920.

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## MASTERS OF ARTS

WITH TITLES OF ESSAYS

- CHARLES EUGENE ABROMAVICH, JR., of Maryland. Zoology.  
Uterus and Fetal Membranes of the Indian Antelope (*Antelope Cervicapra*)
- MARY ALICE ADAMS, of Maryland, S.B. Johns Hopkins University 1925. Education  
An Analysis of the Supervisory Opportunities Involved in the Curriculum Program for Elementary Grades in Seven Large City Systems
- DORIS ALEXINE ANDREWS, of Maryland, A.B. Berea College 1926. Political Economy  
Aged Dependency in Baltimore for the Year 1927.
- RUTH BAETJER, of Maryland, A.B. Wellesley College 1920. Political Economy  
The Care of Children With Heart Disease in Baltimore
- JOHN CROOKS BAILEY, JR., of North Carolina, A.B. Davidson College 1922. Greek  
The *Knights* of Aristophanes: A Study of Vocabulary and Inflections
- LILLIAN CAROLINE CANFIELD, of Maryland. Archaeology  
Minoan-Mycenaean Survivals in East Greek Pottery
- YUEN ZANG CHANG, of China, A.B. Fuh-tan University 1924. English  
The Jew in the Drama of the English Renaissance
- JOSEPH KALMAN CLINE, of Maryland. Chemistry  
The Specific Heats of the Octanols
- HOWARD TREVELYAN EASTON, of Maryland, A.B. Johns Hopkins University 1926. Greek  
A Study of the Words in the Trimeters of Aristophanes' "Acharnians" from the Point of View of Form
- KATHRYN LOUISE FAHRNEY, of Maryland, A.B. Juniata College 1920. Romance Languages  
A Critical Edition of *L'Aveugle de Smyrne*, a Tragedy by Richelieu's "Five Authors"
- RUTH PERRY GILROY, of Maryland. Latin  
The Latin Poems of Andrea Navagero: Text, Introduction and Notes
- KATHARINE COLES GREGORY, of North Carolina, A.B. North Carolina College for Women 1927. Romance Languages  
French Authors of the Seventeenth Century as Represented in Plays from 1797 to 1854
- JOSEPHINE ELIZABETH HOPKINS, of the District of Columbia, A.B. George Washington University 1928. History  
The Spanish Military Coup d'Etat of 1923
- WILLIAM NORTON JONES, JR., of Arkansas, A.B. Hendrix College 1928. Chemistry  
The Sulphuration of Organic Compounds as Illustrated by the Sulphur Dyes
- MARTIN KREBS, of Germany, A.B. St. John's College 1929. English  
Character and Origin of the English Heroic Play
- LAURA LEE LAMBERT, of Virginia, S.B. Harrisonburg Teachers College 1926. Mathematics  
The Irreducible Concomitants, Containing x- and p-Factors of Two Quinary Quadratics
- MARY ELIZABETH MARSHALL, of Maryland, A.B. Goucher College 1928. Romance Languages  
Turkish History in French Tragedy of the Seventeenth and Eighteenth Centuries
- WILLIAM COFFMAN McDERMOTT, of Pennsylvania, A.B. Dickinson College 1928. Archaeology  
The Ape in Classical Art and Literature
- ETHEL BAILEY MELVIN, of Maryland, S.B. Johns Hopkins University 1925. Education  
A Survey of Homework in the Fifth Grade in Baltimore City
- THEODOCI ALEXEI MOGILNITSKY, of Russia. Political Economy  
The Gold Standard in the United States from 1914 to 1929
- MARY FISHER PARMENTER, of Florida, A.B. Goucher College 1921. English  
Gabriel Harvey: An Orator of the English Renaissance
- ISTVAN A. IENÖ PODRABSKY, of Hungary, A.M. University of Economics, Budapest 1926. Political Economy  
The Development of Monetary Theory from Adam Muller to Georg Frederick Knapp

- JOHN SMITH REESE IV, of Delaware, A.B. Princeton University 1927. Chemistry  
Orienting Influences in the Benzene Ring. Part I  
An Historical and Critical Review of This Problem and a New Point of View
- SARAH LUCY ROCHE, of Maryland, S.B. Johns Hopkins University 1924. Education  
How Literary Artists of the Nineteenth Century Were Influenced by the Current Psychology and Philosophy in Delineating Children
- EDNA ROLKER, of Maryland, S.B. Teachers College, Columbia University 1924. Education  
A Supervisory Study of Remedial Instruction in the Solution of Arithmetic Problems.
- EMMA ADALINE SCHAD, of Maryland, S.B. Johns Hopkins University 1925. Education  
Principles of Curriculum Construction Applied to Safety Education
- SAMUEL WHITEFIELD STEVENSON, of Maryland, A.B. University of North Carolina 1921. English  
Addison, the Liberal
- LAZARE TEPER, of France, Eg. Bach és Sc. Université de Paris 1926. Political Economy  
Hours of Labor in the United States: 1890-1928.
- DAVID COLEMAN WATSON, of Maryland. Greek  
A Study of the Words in the Trimeters of the "Birds" of Aristophanes, Chiefly from the Point of View of Form
- DONATO ZINNO, of Italy. Romance Languages  
The Vocalism of the Neapolitan Dialect (30)

## DOCTORS OF EDUCATION

### WITH TITLES OF DISSERTATIONS

- EUNICE KATHERINE CRABTREE, of the District of Columbia, A.B. George Washington University 1922; A.M. 1923  
A Study of the Effect of a Course in Children's Literature upon Students' Own Literary Appreciation. (Experimentally Determined in a Normal School)
- JOHN CAREY TAYLOR, of Maryland, S.B. Johns Hopkins University 1922; A.M. 1927  
The Use of Certain Standard Tests in Predicting Junior High Scholarship as Measured by Teachers' Marks (2)

## DOCTORS OF ENGINEERING

### WITH TITLES OF DISSERTATIONS

- LLOYD LOGAN, of Maryland, Royal Technical College, Glasgow 1919. Gas Engineering  
An Investigation of the Manufacture of Water Gas with Especial Reference to the Decomposition of Steam
- ANATOLI CONSTANTINOVITCH SELETZKY, of Maryland, B.E. Johns Hopkins University 1927. Electrical Engineering  
The Unbalanced Alternating Current Bridge for Magnetic Analysis (2)

## DOCTORS OF PUBLIC HEALTH

### WITH TITLES OF ESSAYS

- ROLLA BENNETT HILL, of Washington, S.B. Whitman College 1912; M.D. University of Pennsylvania 1917.  
Hookworm Reinfestation for Three Years after Treatment in a Sanitized Area in Porto Rico, and Its Bearing on Permanent Hookworm Control in the Group Studies
- HARUO MIZUSHIMA, of Japan, M.D. Tokyo Imperial University 1923; C.P.H. Johns Hopkins University 1929.  
The Correlation Between Growth Rates of Population and Vital Factors by Geographical Districts.
- MANGALAM KESAVA VALIATHAN GOPALA PILLAI, of India, L.R.C.P. and M.R.C.S. England 1923; D.P.H. England 1924  
Review of the World Prevalence of Cholera During the Quinquennium 1924-1928
- YUN-CHAN SUN, of China, A.B. University of California 1921; M.D. Washington University 1924  
The Ventilation of Classrooms
- I-CHIN YUAN, of China, M.D. Peiping Union Medical College 1927; C.P.H. Johns Hopkins University 1929  
Life Tables for a Southern Chinese Family from 1365 to 1849 (5)



## DOCTORS OF SCIENCE IN HYGIENE

### WITH TITLES OF DISSERTATIONS

- LUCILE RUSSELL ANDERSON, of Tennessee, A.B. Carson and Newman College 1926. Bacteriology  
A Study of Bacilli of the Genus *Hemophilus* with Regard to the X and V Growth Factors Under Aerobic and Anaerobic Conditions
- SHAO-CHIUNG CHENG, of China, S.B. and D.V.M. Iowa State College of Agriculture and Mechanical Arts 1926. Immunology  
Leucocyte Counts in Rabbits. Observations on the Influence of Various Physiological Factors and Pathological Conditions.
- RAYMOND ERL GARDNER, of Indiana, A.B. Indiana State Normal School 1926. Filterable Viruses  
Immunity to Transplantable Rat Tumors With Chicken Blood and Vaccine Virus
- WENDELL DANIEL GINGRICH, of Pennsylvania, A.B. North Central College 1926. Protozoology  
Superinfection and Cross-immunity in Bird Malaria
- KITTY H. S. KEMPNER, of Colorado, A.B. University of Colorado 1926; S.M. 1928. Chemical Hygiene  
The Influence of Diet Upon the Susceptibility of the Rat to an Implanted Sarcoma
- HENRY KLEIN, of New Jersey, D.D.S. University of Pennsylvania 1928. Chemical Hygiene  
The Effects of Deficient Diets Upon the Skeletal Development of Swine Including the Development of Teeth
- OLIVER RUFUS MCCOY, of Missouri, A.B. Washington University 1926; S.M. 1927. Helminthology  
Studies on the Biology of the Free-living Stages of the Hookworm
- MARGARET MERRELL, of Massachusetts, A.B. Wellesley College 1922. Statistics  
The Relationship of Individual Growth to Average Growth  
(FILES)
- ELSA REBECCA ORENT, of New York, S.B. Tufts College 1925. Chemical Hygiene  
The Biological Function of Manganese
- CORNELIUS ALFRED PERRY, of Maryland, S.B. Rutgers College 1921. Bacteriology  
Bacteriological Analysis of Oysters with Special Reference to the *Coli-aerogenes* Group as an Indicator of Fecal Pollution
- EUGENE SCHUMAKER, of Indiana, A.B. Indiana State Normal School 1927. Protozoology  
Studies on the *Balantidium* from the Domestic Pig
- DEE TOURTELLOTTE, of Michigan, A.B. Kalamazoo College 1925; S.M. 1926. Chemical Hygiene  
A Critical Study of the Spectrographic Technique and Its Application in the Determination of Aluminum in Biological Matter
- HIROMU TSUCHIYA, of Japan, A.B. University of Missouri 1913. Protozoology  
Studies on Two Diverse Strains of *Giardia Lamblia* Stiles 1915
- EMMA FRANCE WARD, of Maryland, A.B. Goucher College 1909. Physiological Hygiene  
The Measurement of Skin Temperature in Its Relation to the Sensation of Comfort

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## DOCTORS OF MEDICINE

- JOSEPH ALBERT ABERCROMBIE, of Alabama, S.B. Birmingham Southern College 1926
- MAURICE JAMES ABRAMS, of New York, S. B. New York University 1926
- DOROTHY COBB ADAMS, of Virginia, A.B. Radcliffe College 1915
- HATTIE ELIZABETH ALEXANDER, of Maryland, A.B. Goucher College 1923
- PAUL MILLNER ASHTON, of Massachusetts, A.B. Amherst College 1925, A.M. 1926
- CAROLINE CUNNINGHAM BEDELL, of New York, A.B. Smith College 1925
- MIRIAM ESTHER BRAILEY, of Massachusetts, A.B. Mount Holyoke College 1922
- JAMES NEWTON BRAWNER, JR., of Georgia, S.B. University of Georgia 1926
- LOUIS JOSEPH CHESKIN, of New Jersey, S.B. Princeton University 1926
- JULIAN FORD CHISHOLM, JR., of Georgia, S.B. University of Virginia 1926
- FLORENCE CLOTHIER, of Pennsylvania, A.B. Vassar College 1926
- TULLOS O. COSTON, of Texas, A.B. University of Texas 1926
- JEAN DAVIDSON CRAVEN, of California, A.B. Occidental College 1926
- NEAL DAVIS, of Ohio, A.B. Wittenberg College 1926
- WILLIAM ALLEN DECKERT, of Maryland, A.B. Johns Hopkins University 1926
- HAROLD RIVERS DOWNEY, of Vermont, S.B. Middlebury College 1926
- WILLIAM EVANS, JR., of Michigan, A.B. Williams College 1926
- ELLISTON FARRELL, of New York, A.B. Yale University 1926
- WILLIAM ANTHONY FEIRER, of New Jersey, S.B. Rutgers College 1922; D.Sc. Johns Hopkins University 1925
- WILBUR JEROME FISHER, of Connecticut, A.B. Yale University 1926

- RUBIN HYMAN FLOCKS, of Maryland, A.B. Johns Hopkins University 1926  
RICHARD FRANCE, of Maryland, S.B. Princeton University 1926  
JOSEPH FRIEDMAN, of New York, A.B. Cornell University 1926  
ALICE L. A. GILBERT, of New York, A.B. Vassar College 1925  
RICHARD MOSES GOLDSTEIN, of Texas, S.B. Harvard University 1926  
ERNEST FOSTER GORDON, of Connecticut, A.B. Yale University 1926  
GEORGE GOVATOS, of Massachusetts, A.B. Boston College 1926  
ALLAN LYLE GRAFFLIN, of Maryland, A.B. Johns Hopkins University 1925  
CHARLES MCCURDY GRAY, of Michigan, A.B. Ohio Wesleyan University 1926  
ARTHUR GROLLMAN, of Maryland, A.B. Johns Hopkins University 1920; Ph.D. 1923  
LAWRENCE CHAMBERLAIN GROSH, JR., of Ohio, A.B. Williams College 1926  
MILTON BURT HANDELSMAN, of New York, A.B. Amherst College 1926  
FRED WALTER HARTWICK, of Michigan, A.B. Johns Hopkins University 1926  
STUART ZEH HAWKES, of New Jersey, A.B. Union College 1926  
JOHN MARCH HAWS, of Pennsylvania, S.B. Muhlenberg College 1926  
ELMER HIGHBERGER, JR., of Pennsylvania, A.B. Franklin and Marshall College 1926  
OSCAR EDWIN HUBBARD, of Ohio, A.B. Oberlin College 1925  
RALPH WILLIS JACK, of Illinois, S.B. Yale University 1926  
HUGH JUDGE JEWETT, of Maryland, A.B. Johns Hopkins University 1926  
EDWIN FRANK KEHR, of Wisconsin, A.B. University of Wisconsin 1926; A.M. 1927  
KATHERINE KUDER, of Pennsylvania, A.B. Allegheny College 1924; S.M. 1926  
PAUL AUGUSTINE KUNKEL, JR., of Pennsylvania, A.B. Franklin and Marshall College 1926  
ANN GAYLER KUTTNER, of New York, S.B. Barnard College 1915; Ph.D. Columbia University 1923  
HENRY LEE, of Virginia, A.B. Washington and Lee University 1926  
FREDERIC W. LIGHT, JR., of Pennsylvania, A.B. Lafayette College 1926  
JANE LOCKWOOD, of New York, A.B. Smith College 1926  
THOMAS PLEINES MAGILL, of Maryland, A.B. Johns Hopkins University 1925  
CHARLES LE ROY MENGEL, of Pennsylvania, S.B. Lafayette College 1926  
ROWLAND HYDE MERRILL, of Utah, S.B. University of Utah 1923  
LOUIS FRANCIS MIDDLEBROOK, JR., of Connecticut, S.B. Yale University 1926  
ROSA LEE NEMIR, of Texas, A.B. University of Texas 1926  
JOHN WARNER PARSONS, of Maryland, A.B. Johns Hopkins University 1925  
WILMOT WALKER PEIRCE, of Ohio, Ph.B. Yale University 1926  
THEODORE SIDNEY RAIFORD, of Virginia, S.B. Earlham College 1926  
DAVID LANDER REEVES, of California, A.B. Stanford University 1926  
MORRIS ROSENFELD, of Maryland, A.B. Johns Hopkins University 1926  
FRANKLIN DEO SINCLAIR, JR., of New York, S.B. Colgate University 1926  
ALPHONSE EUGENE SIRICA, JR., of Connecticut, A.B. Holy Cross College 1926  
FRANK GILL SLAUGHTER, of North Carolina, A.B. Duke University 1926  
WILBUR LA VERN SPRONG, of California, A.B. University of California 1926.  
SHUI HUAI TAN, of China, A.B. Johns Hopkins University 1926  
ISADORE MAX TARLOV, of Connecticut, A.B. Clark University 1926  
WILDRIDGE CLARK THOMPSON, JR., of Alabama, A.B. University of Alabama 1923; S.M. 1925  
GERTRUDE ELIZABETH TURNER, of California, A.B. University of California 1925  
SAMUEL ALEXANDER VEST, JR., of North Carolina, A.B. Duke University 1926  
JOHN AUGUSTINE WASHINGTON, of West Virginia, A.B. Virginia Military Institute 1924; S.B. University of Virginia 1926  
JOHN CHARLES WIEDENMANN, of Kansas, S.B. Kansas State Teachers' College 1922  
MAURICE BARNES WOODHALL, of New Jersey, A.B. Williams College 1926  
LOUIS BERNARD ZIV, of Virginia, A.B. Johns Hopkins University 1926

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WINNER OF THE WILLIAM H. HOWELL AWARD

PAUL AUGUSTINE KUNKEL, JR.

## DOCTORS OF PHILOSOPHY

### WITH TITLES OF DISSERTATIONS

- EMMA OTTILIE BACH, of Maryland, A.M. University of Nebraska 1913. Romance Languages  
L'Allemagne dans la Revue des Deux-Mondes de 1831 à 1848
- ISRAEL BAROWAY, of Maryland, A.B. Johns Hopkins University 1921. English  
Studies in the Bible as Poetry in the English Renaissance
- CHANDLER BAKER BEALL, of South Carolina, A.B. Johns Hopkins University 1922. Romance Languages  
La Fortune Littéraire de Torquato Tasso en France des Origines à 1663
- OWEN GLENDOWEN BENNETT, of Mississippi, S.B. Mississippi Agricultural and Mechanical College 1926. Chemistry  
Studies on Metallic Oxides as Catalysts for the Low Temperature Oxidation of Carbon Monoxide
- EWING TUCKER BONN, of Maryland, A.M. Johns Hopkins University 1928. History  
Contemporary British Opinion on the Mexican War
- RONALD BULKLEY, of the District of Columbia, B.S. University of Utah 1923; M.S. George Washington University 1926. Chemistry  
The Viscosity of Liquids as Measured in Fine Capillaries
- PAUL AUGUSTUS CLEMENT, JR., of Maryland, A.B. University of North Carolina 1926. Archaeology  
Thessalian Cults
- JAMES ROWLAND CURRY, of Ohio, S.B. Dartmouth College 1925. Chemistry  
The Desorption of Gases from Molecularly Plane Glass Surfaces
- FENG DJEN DJANG, of China, B.Sc. Shanghai College 1927. Political Science  
The Diplomatic Relations Between China and Germany since 1898
- TSE GUNG DJANG, of China, B.Sc. Shanghai College 1924. Chemistry  
Reactions of Mercuric Chloride with Oxalates
- ABRAHAM LINCOLN DRYDEN, JR., of Maryland, A.B. Johns Hopkins University 1925. Geology  
Stratigraphy of the Calvert Formation at the Calvert Cliffs, Maryland
- WILLIAM CUSTER EICHELBERGER, of Ohio, A.B. Oberlin College 1927. Chemistry  
The Osmotic Pressure of Dilute Benzene Solutions by the Porous Disk Method
- EMILY WALCOTT EMMART, of Maryland, A.B. Goucher College 1922; A.M. Johns Hopkins University 1924. Zoology  
Carinogammarus Mucronatus (Say): Studies on Its Life History and Development Including the Effects of Temperature Upon the Embryo
- MABEL GUDE, of New Jersey, A.B. Smith College 1927. Archaeology  
The History of Olynthus
- JAMES DANIEL HARDY, of Mississippi, A.B. University of Mississippi 1924, A.M. 1925. Physics  
A Theoretical and Experimental Study of the Resonance Radiometer
- MARVIN MAYER HARRIS, of Michigan. Bacteriology  
A Study of the Bacteriology of Decomposing Crabs and Crab Meat
- MINNIE BEHM KRAEMER HARRIS, of Michigan. Bacteriology  
A Study of Spirochetes in Chickens with Special Reference to Those of the Intestinal Tract
- LOUISE ALFREDA HILL, of New York, A.B. Cornell University 1923; A.M. 1925. Romance Languages  
The Tudors in French Drama
- JOHN CROMWELL HOLTZ, of Maryland, S.B. in Chem. Johns Hopkins University 1926. Gas Engineering  
The Origin and Decomposition of Organic Sulfur Compounds under Gas Making Conditions with Particular Reference to the Role of the Carbon-Sulfur Complex
- CHIH KAO, of China, A.B. Stanford University 1927. Chemistry  
The Thermal Decomposition of Nitrogen Pentoxide at Low Pressures
- CARL KAPLAN, of Maryland, S.B. in Chem. Johns Hopkins University 1926; A.M. 1928. Physics  
On the Fundamental Constitutive Relations in Electromagnetic Theory
- ABRAHAM DAVID HANNATH KAPLAN, of Colorado, B.S. New York University 1913; M.A. University of Denver 1923. Political Economy  
Henry Charles Carey
- GRACE AMANDA KRAMER, of Maryland, S.B. Johns Hopkins University 1921; A.M. University of Chicago 1924. Education  
The Effect of Certain Factors in the Verbal Arithmetic Problem upon Children's Success in the Solution
- LAURA EMILY KREJCI, of New Jersey, A.B. Barnard College 1927. Chemistry  
Studies on Solid Adsorption



- FRANK EDWARD LALLY, of Massachusetts, A.M. St. Mary's Seminary 1916. History  
French Opposition to the Mexican Policy of the Second Empire
- ARTHUR BEVERLY LEWIS, of the District of Columbia, A.B. University of Mississippi 1923; A.M. 1925. Physics  
Coupled Vibrations with Applications to the Specific Heat and Infra-red Spectra of Crystals
- CHAO WEI LIANG, of China, A.B. Stanford University 1926. Political Science  
Federal Government and China
- ROBERT MARSHALL, of New York, S.B. Syracuse University 1924; M.F. Harvard University 1925. Plant Physiology  
An Experimental Study of the Water Relations of Seedling Conifers, with Special Reference to Wilt-ing
- JOSEPH MILTON McDANIEL, JR., of Maryland, A.B. Johns Hopkins University 1924. Political Economy  
Inconvenience of the Public as a Form of Trade Union Pressure
- JOHN MCGRAW, JR., of West Virginia, S.B. West Virginia Wesleyan College 1926. Chemistry  
The Heat Capacity of Nitrogen Pentoxide between 90° K and 250° K
- CHARLES GORDON MILBOURNE, of Maryland, S.B. in Chem. Johns Hopkins University 1925. Gas Engineering  
The Removal of Hydrogen Sulphide from Gas by Means of Iron Oxide with Special Reference to Humidity Conditions
- CLARA EMILIE MILLER, of Maryland, A.B. Goucher College 1923; A.M. Johns Hopkins University 1925. Chemistry  
The Effect of Mercuric Iodide on Glass
- HELEN MAR MILLER, of Maryland, A.B. Goucher College 1925; S.M. Washington University 1927. Zoology  
Life Histories of the Sexual and the Non-Sexual Generations in the Rotifer, *Distyla Inermis* Bryce, with Study of Factors Determining the Change of Generations
- JAMES ALBERT MITCHELL, of Maryland, S.B. in Chemistry Johns Hopkins University 1927. Chemistry  
Silica Gel as a Catalyst in Organic Reactions
- ELIZABETH MORRISSY, of Maryland, A.B. Beloit College 1908; A.M. Johns Hopkins University 1922. Political Economy  
Unemployment Insurance in American Trade Unions
- HENRY MILES O'BRYAN, of Kansas, A.B. Clark University 1926; A.M. Northwestern University 1927. Physics  
The Efficiency Factor of Gratings in the Extreme Ultra-Violet
- LAURENCE ARMSTRONG PETRAN, of Minnesota, A.B. and Mus.B. Carleton College 1923; A.M. Johns Hopkins University 1929; Artist Diploma, Peabody Conservatory of Music 1929. Psychology  
Studies in Pitch Identification and Discrimination
- JAMES HIRAM POTEET, of Maryland, A.B. Richmond College 1917; A.M. Columbia University 1927. History  
The Virginia Constitutional Convention of 1850-51
- PHILIP CLIVE POTTS, of Maryland, A.B. University of Michigan 1916; B.Pd. Bloomsburg State Normal School 1912. Education  
Secondary Education in Maryland before 1800
- DANIEL RAFFEL, of Maryland, A.B. Johns Hopkins University 1925. Zoology  
The Effects of Conjugation within a Clone of *Paramecium Aurelia*
- MARY RIENHOFF RICHARDSON, of Maryland, A.B. Wells College 1912. Romance Languages  
Patriotism in the *Chansons de Geste*
- IVAN LEONARD SCHULZE, of Maryland, A.B. Johns Hopkins University 1922; A.M. 1927. English  
Elizabethan Chivalry, Pageantry, and Masque in Spenser
- SHIRLEIGH SILVERMAN, of Maryland, A.B. Johns Hopkins University 1927. Physics  
Adsorption of Methyl Alcohol Films on Rock Salt
- MAGDA VOYEN SKALET, of North Dakota, S.B. University of Minnesota 1927; A.M. 1928. Psychology  
The Significance of Delayed Reactions in Young Children
- NORMAN JEROME SMALL, of Maryland, A.B. Johns Hopkins University 1927. Political Science  
Some Presidential Interpretations of the Presidency
- CHARLES G. SMITH, of North Carolina, A.B. Wake Forest College 1913; A.M. University of Pennsylvania 1920; A.M. University of North Carolina 1921. English  
Studies in the Fourth Book of *The Faerie Queene*
- HELEN BERENICE SMITH, of Maryland, S.B. Penn College 1926. Zoology  
A Study of Depression in the Rotifera, with Special Reference to the Effects of Modifications of the Culture Medium upon Length of Life and Fecundity
- RICHARD HOLLADAY SMITH, of Virginia, S.B. Mississippi Agricultural and Mechanical College 1922. Chemistry  
The Specific Heats of the Phenyl Derivatives of Ethane and Some Related Compounds
- NASIM SOOSA, of Iraq, S.B. Colorado College 1928; A.M. George Washington University 1929. Political Science  
The Capitulatory Regime of Turkey: Its History, Origin and Nature
- JOHN CAMPBELL SOUTHARD, of Ohio, S.B. Baldwin-Wallace College 1927. Chemistry  
An Adiabatic Calorimeter for Heat Capacities at Low Temperatures
- HAROLD W. STOKE, of Maryland, A.B. Marion College 1924; A.M. University of Southern California 1925. Political Science  
The Foreign Relations of the Federal State



- ERNEST ALBERT STRATHMANN, of Maryland, A.B. Johns Hopkins University 1926; A.M. 1928. English  
A Critical Edition of Spenser's *Muiopotmos*
- PEI-SUNG TANG, of China, A.B. University of Minnesota 1927. Plant Physiology  
An Experimental Study of the Germination of Wheat Seed under Water as Related to Temperature and Aeration
- WILFRID PHELPS THOMAS, of Maryland, A.B. Williams College 1920; A.M. 1926. Romance Languages  
L'Histoire et la Legende Nationales dans les Mystères
- HERBERT COLLIER TIDWELL, of Texas, A.B. and A.M. Baylor University 1919. Chemistry  
Studies in Esterification
- RICHARD ERNEST VOLLRATH, of Maryland, A.B. Johns Hopkins University 1926. Chemistry  
Thermal Decomposition of Acetone in the Gaseous State
- MABEL LOUISE WALKER, of Maryland, A.B. Columbia University 1926. Political Economy  
Municipal Expenditures
- JOSEPH FARRELL WEILER, of Ohio, S.B. Akron University 1926; S.M. Holy Cross College 1927. Chemistry  
The Mechanism of the Thermal Decomposition of Acetone in the Gaseous State
- PAUL MOWBRAY WHEELER, of Maryland, A.B. Columbia University 1915; A.M. 1916. English  
America Through British Eyes: A Study of the Attitude of the *Edinburgh Review* toward the United States of America from 1802 until 1861
- ANNABEL LEE WHITE, of Maryland, S.B. Johns Hopkins University 1923; A.M. 1927. Education  
The Retention of Elementary Algebra through Quadratics, after Varying Intervals of Time
- ROBERTA STEVENS WHITE, of Indiana, Ph.B. Denison University 1927. Psychology  
Motor Suggestion in Children
- CLARENCE ROTHWELL WILCOX, of Georgia, S.B. Davidson College 1911; A.M. 1919. Education  
Private Secondary Education in the Association of Colleges and Secondary Schools of the Southern States
- ROBERT CARL YATES, of Maryland, S.B. in C.E. Virginia Military Institute 1924; A.B. Washington and Lee University 1926; A.M. Johns Hopkins University 1928. Mathematics  
The Small Vibrations of Certain Mechanical Systems
- JACOB YERUSHALMY, of Palestine, A.B. Johns Hopkins University 1927; A.M. 1929. Mathematics  
Construction of Pencils of Equianharmonic Cubics





