THE JOHNS HOPKINS UNIVERSITY BALTIMORE

CONFERRING OF DEGREES

AT THE CLOSE OF THE FIFTIETH ACADEMIC YEAR

JUNE 8, 1926



IN THE LYRIC THEATRE

AT 4 P. M.

MARSHALS

Professor DAVID M. ROBINSON Chief Marshal

Aids

Dr. R. T. ABERCROMBIE Professor R. D. HAVENS Professor F. D. MURNAGHAN

Professor R. B. ROULSTON Professor W. W. Ford

Professor F. E. BAMBERGER

Professor G. L. HUNNER

ORDER OF EXERCISES

I

ACADEMIC PROCESSION War March of the Priests from "Athalia"-Mendelssohn

II

INVOCATION The Reverend WILLIAM II. EASTON

III

MUSIO

Andante Cantabile for String Orehestra-Tschaikowsky (played by request)

IV

CONFERRING OF DEGREES

Bachelors of Arts, presented by Professor FRENCH Baehelors of Engineering, presented by Dean WHITEHEAD Baehelors of Seience in Chemistry, presented by Dean WHITEHEAD Bachelors of Seience in Economies, presented by Professor HollANDER Bachelors of Science, presented by Professor BUCHNER Baehelors of Science in Hygiene, presented by Professor WELCH Proficients in Public Health, presented by Professor WELCH Masters of Civil Engineering, presented by Dean WHITEHEAD Masters of Arts, presented by Professor MILLER Doctors of Philosophy, presented by Professor WELCH Doctors of Public Health, presented by Professor WELCH Doctors of Science in Hygiene, presented by Professor WELCH Doctors of Science in Hygiene, presented by Professor WELCH

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PRESENTATION OF COMMISSIONS IN THE OFFICERS' RESERVE CORPS

VI Music

Kamenoi-Ostrow (Cloister Seene)—Rubinstein (arranged for orchestra by Ross Jungnickel)

VII

ANNOUNCEMENTS THE PRESIDENT OF THE UNIVERSITY

VIII

MUSIC "America"—Arrangement by Gustav Strube

IX

BENEDICTION

CANDIDATES FOR DEGREES

BACHELORS OF ARTS

ELLIS LAZARUS ARENSON, of Maryland LUDLOW HOPKINS BALDWIN, of Maryland JOHN ARTHUR BALLS, of Canada ALEXANDER LEWIS BASSIN, of Missouri CARROLL MELCHERS BERNDT, of Maryland LEON HANLINE BLOCK, of Maryland ALBERT EMANUEL BLUMBERG, of West Virginia HENRY AIRD BOSWELL, of New York MORGAN MALLORY BUCHNER, of Maryland EDWARD WHITE BUFFINGTON, of Maryland ROBERT CHAMBERS, of Missouri ALLAN MALCOLM CLEAVELAND, of Maryland DON SNELL COLT, JR., of Maryland PERCY EVANS COX, of Maryland WILLIAM HIRST CURRY, JR., of Washington WINSLOW MILTON DAVIES, of Pennsylvania EDWARD HOLLISTER DAVIS, of Illinois ... WILLIAM ALLEN DECKERT, of Maryland JOHN EDWIN DESCH, of Maryland WILLIAM LEROY DUNN, JR., of North Carolina HOWARD TREVELYAN EASTON, of Maryland ALBERT RISLEY ENSOR, of Maryland WILLIAM TAFT FELDMAN, of Maryland JOHN NORVILLE GIBSON FINLEY, of Maryland RUBIN HYMAN FLOCKS, of Maryland ARNOLD ROY FRANK, of Maryland ABRAHAM GOLDFARB, of New Jersey HAROLD SIMMS GOODWIN, of Maryland HARRY JOSEPH GREEN, of Maryland RENO SHEFFER HARP, JR., of Maryland FRED WALTER HARTWICK, of Michigan ROBERT EDMUND HEYN, of Maryland LEON HARRIS HIRSH, of Wisconsin ALGER HISS, of Maryland BOWMAN JOYNER HOOD, of Maryland ROBERT MELVIN HOPKINS, of Maryland ROLLIN CARL HUDSON, of Maryland HUGH JUDGE JEWETT, III, of Maryland ARTHUR EDWIN JOHNSON, JR., of Michigan

WILLIAM ANDREW KEESE, JR., of Maryland OTHO JAMES KELLER, III, of Maryland ABRAHAM KREMEN, of Maryland LEON LACHMAN, of Maryland JAMES CHANCELLOR LEONHART, of Maryland PAUL MICHAEL LEVIN, of Maryland KARL MINIFIE LEVY, of Maryland SOLOMON LEVY, of Maryland ENOCH HENRY LIGHT, of Ohio PAUL FARADAY LOIZEAUX, of Maryland AARON MARGALITH, of Palestine ELLIS SOLOMAN MARGOLIN, of Maryland JOHN WILLIAM MCCLEARY, of Maryland CLARENCE LEROY MILLER, of Maryland HARRY ARCHER MILLER, of Maryland ARTHUR LEONIDAS NELSON, of Maryland MILBERN CARROLL REED, of Maryland MORRIS ROSENBERG, of Maryland MORRIS ROSENFELD, of Maryland ROLAND LEE SANSBURY, of Maryland ROBERT TAYLOR SAUERWEIN, of Maryland JACK JULIUS SCHERR, of Maryland HERMANN OTTO SCHMIDT, of Maryland JOEL ISAAC SEIDMAN, of Maryland JEROME HERBERT SHAPIRO, of Maryland JESSE SLINGLUFF, JR., of Marvland REGINALD CLYDE SMITH, of Florida GEORGE JOHN SNOOPS, JR., of Maryland LUDWIG ADOLPH STAIB, JR., of Maryland GORDON MALVERN STICK, of Maryland ERNEST ALBERT STRATHMANN, of Maryland THURSTON TAYLOR, of Maryland HENRY RUTHERFORD TURNBULL, of Maryland GERMAN A. DE VENECIA, of the Philippine Islands RICHARD ERNEST VOLLRATH, of Maryland RALPH GRISWOLD WALES, of Connecticut CHARLES WASSERMAN, of Maryland ARNOLD HERBERT WILLIAMS, of Pennsylvania FRANCIS EUGENE WILLIAMS, of Maryland

LOUIS BERNARD ZIV, of Virginia

HONOR LIST

Albert Emanuel Blumberg Rubin Hyman Flocks Alger Hiss Leon Lachman Morris Rosenfeld Joel Isaac Seidman Ernest Albert Strathmann Louis Bernard Ziv (79)

BACHELORS OF ENGINEERING

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JOSEPH LAMB APPLEBY, JR., of Maryland WHLIAM JAMES EDWARD APSLEY, of Maryland ROLLIN STUART BAILEY, of Maryland DONALD THEODORE BONNEY, of Pennsylvania WALLACE LEE BRAUN, of Maryland CARL AUGUST ALBERT BRUNNER, of Maryland RAYMOND WINTERNITZ COHEN, of Maryland HARVEY MILLS DAVIS, of Maryland JOHN VINCENT DEMPSEY, of Maryland KENNETH HAVERGAL DENNIS, of Maryland HARRY JOHN ENGEL, of Maryland BAYARD PINTARD FONDA, of Maryland CLARENCE CHRISTIAN FRANCK, of Maryland HOWARD ALBERT FREY, of Maryland ROBERT FERGUSON GARRETT, of Maryland MALCOLM RICKETTS GILPIN, JR., of Maryland MELVIN NEILSON GOUGH, of Maryland DAVID GRANOFF, of Maryland THEODORE NESTOR GRASER, JR., of Maryland HERBERT HOFFMAN, of Maryland CHARLES CHRISTOPHER HOMER, of Maryland HOLDEN RINGWALT HOUGHTON, of Maryland AUSTIN JENKINS KEEN, JR., of Maryland LOUIS BEHR KRAVETZ, of Maryland NEVIN OLIVER LAWYER, of Maryland

CLAR LEE LEMMON, of Maryland THOMAS JOSEPH LOGAN, of Maryland GEORGE LOVE, of Maryland GEORGE EASTER MARLEY, of Maryland FRANK MICHAEL MEREDITH, of Maryland PAUL MIDDLEMAN, of Maryland JACK BROWN NANCE, of Maryland JOHN WILMER POTEET, JR., of Maryland JAMES JOHN PRIMUS, JR., of Maryland MATTHEW ROBERT PURVIS, of Maryland HARRIE BLANDFORD RASCH, JR., of Maryland MARSHALL EMORY REDDICK, JR., of Maryland LESLIE HARWOOD SCHOENHAAR, of Maryland AUGUST SCHOFER, of Maryland DAVID PRUDEN SHAFER, of Maryland CHAUNCEY OLCOTT SIMPSON, of Maryland GREGORY NICHOLAS SLEZSKINSKY, of Russia JOHN CONRAD STAYLOR, of Maryland ARTHUR SWANSON, of Maryland ARTHUR EASTHAM THESSEN, of the District of Columbia JAMES WILLIAM THOMAS, of Maryland RALPH HOLMES TOWNSEND, of Maryland MILLARD FRANKLIN WHEELER, of Maryland HULBERT YOUNG, JR., of Maryland WILLIAM NELSON YOUNG, of the District of Columbia

(50)

HONOR LIST

Civil Engineering HARRY JOHN ENGEL Electrical Engineering George Love FRANK MICHAEL MEREDITH Mechanical Engineering GEORGE EASTER MARLEY

BACHELORS OF SCIENCE IN CHEMISTRY

JAMES KENNETH DIXON, of Maryland WILLIAM AUGUST GERSTMYER, of Maryland JOSEPH GREENBERG, of Maryland

JOHN CROMWELL HOLTZ, of Maryland nd CARL KAPLAN, of Maryland JOHN LOUIS OBERSEIDER, of Maryland KENNETH HOOD SLAGLE, of Maryland

(7)

BACHELORS OF SCIENCE IN ECONOMICS

JOHN HENRY GILLIECE, of Maryland GEORGE ELMER GORSUCH, of Maryland CHARLES RIDGELY HOWARD, of Maryland

WILLIAM FALKNER HUNTER, of Maryland d YENS HOLGER JENSEN, of Maryland nd JOHN JACKSON KIDD, JR., of Maryland JOHN WALKER TAYLOR, of Maryland

(7)

BACHELORS OF SCIENCE

HARRY HARRIS BATCHELOR, of Maryland ANNA BERCOWITZ, of Maryland RUTH HELEN CARMEL, of Maryland IRENE MILLS CUDLIPP, of Maryland CAROLINE HAYDEN, of Maryland CHESTER HERBERT KATENKAMP, of Maryland FLORENCE LEVINSON, of Maryland IDA LEVINSON, of Maryland

MARIE GENEVIEVE MCGUINESS, of Maryland ANNIE GERTRUDE MELVIN, of Maryland JULIA MOHRLEIN, of Maryland GEORGE HARRY POUDER, of Maryland VIOLA REED, of Maryland GERTRUDE TYSON SHIPLEY, of Maryland LOUISA AVONDALE WEEDON, of Maryland FLORENCE WELLER, of Maryland (16)

BACHELORS OF SCIENCE IN HYGIENE

ALICE EUNICE DREW, of the District of Columbia

MARY ELIZABETH TREMAINE HOTALING, of New York (2)

RECIPIENTS OF CERTIFICATES IN PUBLIC HEALTH

- ERIC CHRISTIAN GILLES, of Ceylon, L.R.C.P.S. Edinburgh 1924, L.R.F.P.S. Glasgow 1924, L.M.S. Ceylon Medical College 1924
- HARDIE ROGERS HAYS, of Mississippi, M.D. Memphis Hospital Medical College 1906
- JOSEPH PATRICK KANE, of Washington, M.D. University of Minnesota 1905
- HUBERT NOEL CONRAD VAN GEYZEL KELAART, of Ceylon, L.M.S. Ceylon Medical College 1922, M.R.C.S. and L.R.C.P. London 1924
- ARPAD NAGY, of Hungary, M.D. Royal Hungarian University (Budapest) 1921
- ARTHUR L. OILAR, of Indiana, M.D. Indiana University 1913
- PAUL PARROT, of Canada, M.D. Laval University 1922
- STANISLAW PIETRASZEWSKI, of Poland, M.D. University of Warsaw 1924
- STANISLAW TUBIASZ, of Poland, M.D. University of Jena 1913

(9)

MASTERS OF CIVIL ENGINEERING

EDWARD MARSHALL CRAIG, JR., of North Carolina, A.B. Washington and Lee University 1914, A.B. Yale College 1916, S.B. Massachusetts Institute of Technology 1921. Sanitary Engineering

The Development of the Rapid Sand Filter

CARL JOHN SPEER, JR., of Maryland, B.E. Johns Hopkins University 1923. Sanitary Engineering Sanitary Engineering Aspects of Shellfish Pollution

(2)

MASTERS OF ARTS

WITH TITLES OF ESSAYS

- CHARLES EDWIN ADAMS, of Maryland, Ph.B. University of Chicago 1914. Education
 - The Value of Short Answer Tests in the Teaching of the Social Studies
- CARL BOECKNER, of Maryland, S.B. in Chemistry Johns Hopkins University 1924. Physics

Recent Studies in Band Spectra

HARRY LEE BOWEN, of Maryland, A.B. University of Virginia 1924. History

Anglo-German Relations 1898-1902

- GRACE DOLORES BROENING, of Maryland, S.B. Johns Hopkins University 1924. Education An Evaluation of Individualized Instruction in the
 - Junior High School—Experimentally Determined
- CHARLES BORROMEO CARROLL, of Maryland, A.B. St. Mary's University 1923. Archaeology
 - Caves and their Ancient Uses
- HAROLD WILLIAM CHALKLEY, of Maryland, Sc.B. Missis
 - sippi Agricultural and Mechanical College 1924. Zoology The Volume of Amoeba and Its Relation to the Concentration of Glycerol

- LEONARD BERTRAND CLARK, of Canada, A.B. University of ELIZABETH WRIGHT MITCHELL, of Maryland, A.B. Goucher Manitoba 1923. Zoology
 - The Seasonal Distribution and Biology of Notonecta Undulata in the Winnipeg (Canada) Region
- ETHEL COOPER, of Maryland, S.B. Johns Hopkins Univer-sity 1922. Archaeology and Art

Praxiteles and His Influence

HERBERT NEWELL COUCH, of Canada, A.B. University of Toronto 1924. Classical Archaeology

Sources for the Study of Sardis

CYRIL WILLIAM DAWSON, of the District of Colmubia, S.B. The Catholic University of America 1922. Physics

Recent Work in Extending the Range of Spectra

Sister MARY GRATIA ENNIS, of Maryland, A.B. Fordham University 1922. Latin

Sacred Eclogues of René Rapin

- MARY TERESA GALLAGHER, of Maryland, S.B. Johns Hopkins University 1924. Classical Archaeology
- The Representation of Armor in Hellenistic and Roman Sculpture
- WILLIAM CONRAD GUESS, of North Carolina, A.B. University of North Carolina 1911. History

The Bering Sea Fnr Seals Arbitration

MILDRED EDITH HILBERG, of Maryland, A.B. Goncher College 1923. Political Economy

Some Aspects of Public Welfare in Maryland

- CHARLES HAROLD HOWARD, of Pennsylvania, S.B. Gettysburg College 1923. Political Economy
 - Systems of Promotion and Tenure in Typical American **Trade Unions**
- JOSEPH KAPLAN, of Maryland, S.B. in Chemistry Johns Hopkins University 1924. Physics

Some Recent Advances in Spectroscopy

- EDGAR LEE KINSEY, of Maryland, S.B. in Chemistry Johns Hopkins University 1924. Physics
 - A Review of the Critical and Spectroscopic Phenomena of Molecular Hydrogen
- GRACE ELIZABETH LIPPY, of Maryland, A.B. Wilson College 1923. Zoology
 - The Vascular System of the Neck Region in the Rabbit, the Rat, the Muskrat, the Squirrel, and the Guinea Pig with Special Reference to the Left Precaval Vein
- Sister MARY COELINE LYONS, of Maryland, A.B. Fordham University 1923. Latin

The Latin Poems of Baldassare Castiglione

- College 1924. Political Economy
 - Causes of the Intake of the Henry Watson Children's Aid Society
- CORRILLA ELIZABETH NORTHCUTT, of the District of Columbia, S.B. in Education University of Missouri 1924, S.B. in Business and Public Administration 1925. Political Economy

Honsing Standards among Unskilled Wage Earners in Baltimore

HELEN REESE REESE, of Maryland, A.B. Wilson College 1924. French

The American Landscape in Two French Writers at the End of the Eighteenth Century

ELLEN LUCRETIA RICHARDSON, of Missouri, A.B. Wellesley College 1919. Political Economy

The Shriners' Hospitals for Crippled Children

DAVID MOSES SCILNEIDER, of Russia, E.E. University of Kieff 1921. Political Economy

The Workers' Party and the Machinists' Union

- EDWARD CHARLES SEITZ, of Maryland, A.B. Franklin and Marshall College 1903. Education
 - The Achievement in the State Normal School at Towson, Maryland by Graduates of Secondary Academic and Commercial Courses
- EUNICE BURR STEBBINS, of New York, A.B. Smith College 1916. Classical Archaeology

The Letters of Augustus Preserved in Greek Inscriptions and in the Greek Writers

LIDA LEE THOMASON, of Maryland, S.B. Johns Hopkins University 1924. Education

Character Education for Citizenship

GERALDINE KLINE WALKER, of Maryland, A.B. Goucher College 1922. Physics

Structure of Light

JESSE HOWELL WEATHERBY, of Mississippi, S.B. Mississippi Agricultural and Mechanical College 1924. Zoology

The Function of the Contractile Vacuole in Paramecium Candatum; with Special Reference to the Excretion of Nitrogenous Compounds

VERNON ELEAZER WHITMAN, of the District of Columbia, Sc.B. Massachusetts Institute of Technology 1922, Sc.M. 1924. Physics

Contact Potential and the Peltier Effect (30)

DOCTORS OF PHILOSOPHY

WITH TITLES OF DISSERTATIONS

- EARNEST WILLIAM ATKINS, of Texas, A.B. West Texas State Normal College 1920, A.M. University of North Carolina 1921. Psychology, Education, Applied Psychology
 - The Efficiency of the Eye under Different Intensities of Illumination
- PAUL WILLIAM BACHMAN, of Pennsylvania, S.B. in Chemistry Johns Hopkins University 1923. Chemistry, Physical Chemistry, Mathematics

Adsorption on Surfaces of Mercury

MARTHA HELEN BARTON, of Maryland, A.B. Goucher College 1913, A.M. Johns Hopkins University 1922. Mathematics, Physics, Applied Mathematics

Some Applications of the Generalized Kronecker Symbol

- HERBERT BARTON BROOKS, of the District of Columbia, M.E. Ohio State University 1903. Electrical Engineering, Physics, Mathematics
 - The Electric Strength of Air between Concentric Cylinders, a New Determination with the Corona Voltmeter

MURIEL WHITBECK BROWN, of New York, A.B. Wellesley College 1915, A.M. Leland Stanford, Jr. University 1924. Psychology, Zoology, Mathematics

Continuous Reaction as a Measure of Attention

- ROLAND WILBUR BROWN, of Pennsylvania, S.B. Lafayette College 1917. Geology, Paleontology, Biology
 - Composition and Environment of the Green River Flora
- OWENS HAND BROWNE, of Maryland, S.B. North Carolina State College 1921. Chemistry, Physical Chemistry, Mathematics

Reactions of Lead Tetraethyl

LENOIR HENDERSON BURNSIDE, of Georgia, A.B. LaGrange

College 1911. Psychology, Zoology, Mathematics

- Coordination in the Locomotion of Infants
- MARGARET MILLICENT CAREY, of Maryland, A.B. Bryn Mawr College 1920. English, French, Political Economy

The Wakefield Group in the Towneley Cycle

SAMUEL GWYNN COE, of Virginia, A.B. Washington and Lee University 1909, A.M. 1916. History, Political Science, Political Economy

The Mission of William Carmichael to Spain

- JAMES EARL COPENHAVER, of Maryland, A.B. Emory and Henry College 1920, S.M. Vanderbilt University 1923. Organic Chemistry, Physical Chemistry, Mathematics m-Diethylbenzene and Some of Its Derivatives
- WILLIAM HENRY CREW, of Illinois, United States Naval Academy 1922, A.M. Johns Hopkins University 1924. Physics, Applied Mathematics, Mathematics
 - An Effect of Light on the Electron Emission from Hot Filaments [March, 1926]
- ALFRED WILLIS DEARING, of the District of Columbia, S.B. Virginia Military Institute 1921. Chemistry, Physical Chemistry, Mathematics

Reactions of Ethyl Orthosilicate

- WINTHROP BULKLEY DILLINGHAM, of New Jersey, A.B. Williams College 1922. Chemistry, Physical Chemistry, Mathematics
 - I. S-Triethylbenzene and its Derivatives. II. The Effect of Silica Gel on Sulphur in Gasoline
- VIVIAN EZRA FISHER, of Idaho, A.B. University of Utah 1921, S.M. 1922. Psychology, Zoology, Applied Psychology
 - An Experimental Study of the Effects of Tobacco Smoking on Certain Psycho-Physical Functions
- DOROTHY GETZ, of Maryland, A.B. Goucher College 1917. Chemistry, Physical Chemistry, Mineralogy

I. A Study of the Decomposition of Nitrogen Pentoxide II. A Study of Some Volumetric Standards

CECIL JEROME HAGGERTY, of Massachusetts, A.B. Williams College 1923. Chemistry, Physical Chemistry, Bacteriology

Studies in the Electrical Properties of Silver Solutions

- FRANCES ADELIA HALLOCK, of New York, A.B. Mt. Holyoke College 1903, A.M. Columbia University 1915. Botany, Zoology, Bacteriology
 - The Relationship of Garrya: The Development of the Flowers and Seeds of Garrya and Its Bearing on the Phylogenetic Position of the Genus
- SUSAN EMOLYN HARMAN, of Maryland, Ed.B. Peru (Nebraska) State Teachers' College 1914, A.B. University of Nebraska 1917, A.M. 1918. English, Germanic, Philology, Psychology

A Lexicographical Study of the Gesta Romanorum

WILLIAM SIMON HOFFMEISTER, of Maryland, A.B. Johns Hopkins University 1923. Geology, Paleontology, Zoology

The Molluscan Fauna of the Wilcox Group of Alabama

WILLIAM STULL HOLT, of the District of Columbia, A.B. Cornell University 1920, A.M. George Washington University 1923. History, Political Science, Political Economy

Treaties Defeated by the Senate 1789-1901

DWIGHT LUCIAN HOPKINS, of Virginia, S.B. and S.M. University of Virginia 1923. Zoology, Physical Chemistry, Organic Chemistry

The Relation between Water-Content and Locomotion in Amoeba Proteus

HUI HSIEH, of China, S.B. Rutgers College 1922. Chemistry, Physical Chemistry, Mathematics

Studies in the Abnormal Viscosities of Lyophile Colloids

ANNETTE IVES, of California, A.B. University of Southern California 1920, A.M. 1922. French, Italian, Spanish La sensibilité esthétique d'Eugene Fromentin

HARRIET DALE JOHNSON, of West Virginia, A.B. Denison University 1894. Latin, Greek, Ancient History The Roman Tribunal

- MARY LYDSTON KILPATRICK, of Maryland, A.B. Radeliffe College 1920, A.M. Vassar College 1922. Chemistry, Physical Chemistry, Mathematics The Catalytic Action of Dust
- RALPH CLIPMAN MCDANEL, of Virginia, A.B. Richmond College 1916, A.M. Columbia University 1925. History, Political Science, Education The Virginia Constitutional Convention of 1901-1902

The Virginia Constitutional Convention of 1901-1902

- HARRY JOHN MCNICHOLAS, of the District of Columbia, A.B. Ripon College 1915, A.M. Johns Hopkins University 1924. Physics, Applied Mathematics, Mathematics On the Use of the Integrating Sphere in Reflectometry
- GEORGE SINCLAIR MITCHELL, of Virginia, A.B. University of Richmond 1923. Political Economy, Political Science, History

Textile Unionism in The South

JAMES STEWART NAGLE, of Maryland, A.B. Dickinson Collebe 1911. Education, History, Political Economy

The Educational Needs of the Straits Settlements and Federated Malay States

LOUISE ANNA NELSON, of Washington, Ph.B. University of Colorado, 1903, A.M. Columbia University 1915. Psychology, Zoology, Animal Physiology

Variations in Development and Motor Control in Goiterous and Non-Goiterous Adolescent Girls

BOYD CRUMRINE PATTERSON, of Pennsylvania, A.B. Washington and Jefferson College 1923, A.M. Johns Hopkins University 1925. Mathematics, Applied Mathematics, Geophysics

The Algebraic and Differential Invariants of Inversive Geometry

ALBERT HENRY POETKER, of Missouri, A.B. St. Xavier College 1907, A.M. St. Louis University 1914. Physics, Applied Mathematics, Mathematics

The Infra-Red Radiation of Hydrogen

J. LEON SHERESHEFSKY, of Pennsylvania, S.B. in Chemistry University of Pittsburgh 1923. Chemistry, Physical Chemistry, Mathematics

Study of the Vapor Pressures in Small Capillaries

QUENTIN DREYER SINGEWALD, of Maryland, A.B. Johns Hopkins University 1922. Geology, Economic Geology, Zoology

Igneons Rocks from the Andes of Central Pern

GEORGE WASHINGTON SPICER, of Virginia, A.B. Randolph-Macon College 1920. Political Science, History, Political Economy

Constitutional Status and Government of Alaska

ETHEL MAY STALEY, of Maryland, A.B. Goncher College 1911. French, Italian, Spanish

George Sand and Jean-Jacques Roussean

ELMER GEORGE SUHR, of New York, A.B. Wittenberg College 1923, A.M. Johns Hopkins University 1925. Classical Archaeology, Greek, Ancient History

Sculptured Portraits of Greek Statesmen

MERLE ANTONY TUVE, of Minnesota, S.B. University of Minnesota 1922, A.M. 1923. Physics, Physical Chemistry, Mathematics

An Experimental Study of the Conducting Layer Situated in the Upper Atmosphere

ENRIQUE TOPACIO VIRATA, of the Philippine Islands, A.B. University of the Philippines 1919, S.B. Harvard University 1924, A.M. 1925. Mathematics, Applied Mathematics, Geophysics

W-Surfaces Which Have an Isometric Spherical Representation of their Lines of Curvature

- PAUL SMITH WAGNER, of Pennsylvania, A.B. Lebanon Valley College 1917, A.M. Johns Hopkins University 1925. Mathematics, Applied Mathematics, Geophysics An Extension of Clifford's Chain
- EMMA ETTMUELLER WALTERS, of Missouri, A.B. and S.B. in Education University of Missouri 1915, A.M. 1918. Germanic Philology, German Literature, Sanskrit
 - The Inflection of the Indo-Enropean Words of Relationship in Germanic
- CALVIN NORWOOD WARFIELD, of Maryland, B.E. Johns Hopkins University 1923, A.M. 1925. Physics, Applied Mathematics, Mathematics Iodine Resonance Spectra Excited by λ 5792.3
- HERBERT FINIS WEIDE, of Pennsylvania, B.M. and S.B. Westminster College 1923, A.M. Oberlin College 1924. Chemistry, Physical Chemistry, Mathematics
 - A New Experimental Method for the Study of Gaseons Effnsion
- CLODIUS HARRIS WILLIS, of Virginia, S.B. Richmond College 1914, S.B. in Engineering Johns Hopkins University 1916. Electrical Engineering, Physics, Mathematics Space Charge and Current in Alternating Corona
- JAMES DEAN WILSON, of Michigan, S.B. Michigan State College 1922. Plant Physiology, Botany, Paleobotany The Measurement and Interpretation of the Water-Supplying Power of Soils as Related to Lawn Grasses and Certain Other Plants
- WILLIAM KIRK WOOLERY, of West Virginia, A.B. Bethany College 1908, B.Ped. 1909, A.M. University of California 1915. History, Political Science, Political Economy
 - The Relation of Thomas Jefferson to American Foreign Policy 1783-1793 (47)

DOCTORS OF PUBLIC HEALTH

WITH TITLES OF ESSAYS

- HERACLIDES CESAR DE SOUZA ARAUJO, of Brazil, M.D. Faculty of Medicine Rio Janeiro 1915
 - The Control of Venereal Diseases in the United States in 1925
- JOHN DONAL CARROLL, of Ireland, S.B. University College (Dublin) 1912, M.D. 1913, D.P.H. 1920
- Health Supervision of School Children in a City of 100,000 Population
- JOHN ROSSLYN EARP, of England, A.M. University of Cambridge 1913, L.R.C.P. London, M.R.C.S. England 1917 The Student Who Smokes
- FRANCIS EMIL GESSNER, of Connecticut, M.D. Yale University 1912, Major, M.C., U.S.A.

The United States Army Ration

EDWARD SAMUEL GODLIEB, of Ceylon, L.M.S. Ceylon Medical College 1910, L.R.C.P.S. and L.R.F.P.S. University of Edinburgh 1921

Infant Mortality and Child Hygiene

- EDER JANSEN DE MELLO, of Brazil, Sc.B. e Lett, Anchieta College 1909, M.D. Faculty of Medicine Rio Janeiro 1915
 - A Comparative Study of the Duration of Illness in Acutely Fatal Cases of Tuberculosis in Two Race Groups
- EDWARD GARRIDO MORALES, of Porto Rico, M.D. Medical College of Virginia 1924

A Study of the Association of Typhoid Fever in Knox-

ville, Tennessee, with Various Water Supplies and Methods of Excreta Disposal

- GUILLERMO GARCIA DE PAREDES, of Panama, M.D. Long Island College Hospital 1918
 - Some Observations Regarding the Effect of Various Temperatures on the Development of the Hookworm Eggs
- LUANG BANCHONG PAYABAL, of Siam, Grad. in Medicine Chulalongkorn University 1915
 - The Distribution of Toxic Anaerobes in the Soil of Maryland with Special Reference to Bacillus Botulinus and Bacillus Tetani
- GEORGE IIERBERT RAMSEY, of Michigan, A.B. Rutgers College 1913, M.D. Columbia University 1917, C.P.H. Johns Hopkins University 1925
 - A Study of the Minor Respiratory Affections in 301 Families During the Year 1924
- RICHARD MORELAND TAYLOR, of Kentucky, M.D. University of Michigan 1910
 - A Preliminary Survey and Recommendations for Control of Malaria in Costa Rica
- LUANG VAIDAYA VIDHIKAR, of Siam, Grad. in Medicine Chulalongkorn University 1916
 - Observations on the Problem of Standard Hookworm Cultures (12)

DOCTORS OF SCIENCE IN HYGIENE

WITH TITLES OF DISSERTATIONS

HOWARD BANCROFT ANDERVONT, of Ohio, S.B. Mount Union College 1923. Filterable Viruses

The Relationship of the Epithelioma Contagiosum Virus of Fowls to the Vaccine Virus

JUSTIN MEREDITH ANDREWS, of Connecticut, Ph.B. Brown University 1923. Medical Zoology

Host-parasite Relationships in Coccidiosis of Mammals

EMIL BOGOMIR CEKADA, of Washington, S.B. University of Washington 1923. Physiological Hygiene

The Preparation and Properties of Prothrombin

- LILLIAN CROMBIE BURROUGHS DAVIS, of Maryland, A.B. Goucher College 1917. Chemical Hygiene Disposal of Dairy Wastes
- ERNEST HARTMAN, of Kansas, S.B. Kansas State Agricultural College 1922, S.M. 1924. Medical Zoology
- Certain Interrelations between Plasmodium Avium and its Host

PERSIS PUTNAM, of Illinois, A.B. Smith College 1911. Statistics

Sex Differences in Pulmonary Tuberculosis Deaths

ELIZABETH CARPENTER TANDY, of Indiana, Ph.B. University of Chicago 1915, A.M. Columbia University 1921. Statistics

Time Changes in Biologically Classified Mortality Rates

- FRANCIS MARION WALTERS, of Missouri, A.B. Indiana University 1887, A.M. 1891. Physiological Hygiene
 - Effects of Carbon Monoxide Poisoning upon Metabolism
- LOIS EMILY WITHAM, of Kansas, S.B. Kansas State Agricultural College 1916, S.M. 1918. Chemical Hygiene
 - Some Studies on the Chemical Nature of Vitamin B and a Comparative Study of the Vitamin B Requirements of Rats and Pigeons (9)

DOCTORS OF MEDICINE

- JAMES LIONEL ALLOWAY, of Ohio, A.B. Ohio State University 1922
- DOROTHY HANSINE ANDERSEN, of New York, A.B. Mt. Holyoke College 1922
- AUBREY W. ARMENTROUT, of Virginia, A.B. University of Kentucky 1922
- ALPHONS EUGENE BACHHUBER, of Wisconsin, A.B. University of Wisconsin 1923
- JACOB TRAVIS BENNETT, of Texas, A.B. University of Texas 1922
- ARTHUR PROCTOR BLACK, of Vermont, A.B. Amherst College 1921
- SAMUEL SHIRLEY BLACKMAN, JR., of Tennessee, A.B. Vanderbilt University 1922
- BENSON BLOOM, of Maryland, A.B. Johns Hopkins University 1922
- ROBERT MARION COTHRAN, of South Carolina, A.B. Presbyterian College of South Carolina 1922
- CHARLES EDGAR CREEL, of Alabama, S.B. University of Alabama 1922
- LEMUEL WHITLEY DIGGS, of Virginia, A.B. Randolph-Macon College 1921, A.M. 1922
- JOHN WARNER DUCKETT, of Texas, A.B. University of Texas 1922
- HARRISON SALES FORGRAVE, JR., of Missouri, A.B. Johns Hopkins University 1922
- CHALMERS LAUGHLIN GEMMILL, of Pennsylvania, S.B. Lafayette College 1922
- CLARA REGINA GROSS, of Maryland, A.B. Goucher College 1920
- RUSSELL CLARK GROVE, of Virginia, A.B. Roanoke College 1922
- WILLIAM ADAMS GUNTER, III, of Alabama, S.B. University of Alabama 1922

- ROBERT KENNETH GUSTAFSON, of Connecticut, Ph.B. Yale University 1912
- SEALE HARRIS, Jr., of Alabama, S.B. University of Alabama 1924
- EDMUND PENDLETON HUNTER HARRISON, JR., of Maryland, A.B. Princeton University 1922
- EDWARD CALISCH HELD, of Virginia, S.B. University of Richmond 1924
- DUNCAN CHARTERIS HETHERINGTON, of Colorado, A.B. Colorado College 1919, A.M. University of Illinois 1920, Ph.D. 1922
- GEORGE ADOLPH HILLEMAN, of Pennsylvania, S.B. Haverford College 1922
- JOHN VERNON HOPKINS, of Colorado, A.B. Oxford University 1923
- DAVID GRANVILLE HUMPHREYS, of Florida, A.B. Washington and Lee University 1922
- OLAN R. HYNDMAN, of Texas, S.B. Rice Institute 1921
- SAMUEL HAROLD IMBODEN, of Pennsylvania, S.B. Franklin and Marshall College 1921
- CHRISTOPHER JOHNSTON, of Maryland, A.B. Johns Hopkins University 1922
- PAUL NUGENT JOHNSTONE, of Missouri, A.B. University of Missouri 1922
- EDMUND BREDOW KELLY, of Maryland, A.B. Princeton University 1921
- SANDER EDWIN LACHMAN, of Maryland, A.B. Johns Hopkins University 1921
- ALBERT HENRY LAHMANN, of Wisconsin, A.B. University of Wisconsin 1923
- FRANCIS HOWARD LANGLEY, of Florida, A.B. Ohio Wesleyan University 1922
- WILLIAM ABNER LINTHICUM, of Maryland, A.B. Randolph-Macon College 1922

- RUTH LOVELAND, of New Jersey, A.B. Wellesley College 1920
- DOROTHY LUCILLE LOYNES, of Massachusetts, A.B. Brown University 1921
- DONALD HECTOR MACDONALD, of Maryland, A.B. Johns Hopkins University 1922
- JACOB HOLT MCCRACKEN, JR., of New York, A.B. Trinity College (N. C.) 1922
- LUCIUS EMMETT MADDEN, of South Carolina, S.B. Clemson Agricultural College 1922
- HOUSTON H. MERRITT, JR., of North Carolina, A.B. Vanderbilt University 1922
- MORRIS MYERS, of Maryland, A.B. Johns Hopkins University 1922
- JAMES CLAGGETT OWINGS, of Maryland, A.B. St. John's College 1922
- THOMAS MYERS PALMER, of Florida, S.B. University of Florida 1919, A.B. University of Oxford 1923
- ERIC HOWARD PATTISON, of New York, A.B. Williams College 1922
- JULIAN PLEASANTS PRICE, of China, A.B. and A.M. Davidson College 1922
- LEWIS CHARLES PUSCH, of Ohio, A.B. Johns Hopkins University 1921
- HOWELL SHEPPARD RANDOLPH, of Wisconsin, A.B. Milton College 1920, A.M. University of Wisconsin 1924
- JACOB RAVIDOWITZ, of Palestine, A.B. Johns Hopkins University 1922
- BENJAMIN RONES, of Maryland, A.B. Johns Hopkins University 1922
- EDMUND WILLIAM SCHACHT, of Wisconsin, S.B. Beloit College 1922
- FREDERICK WILLIAM SCHACHT, of Wisconsin, S.B. Beloit College 1922

- MERRIWELL TIECHE SHELTON, of Virginia, A.B. Trinity College (N.C.) 1922
- HENRY CORNELIUS SMITH, of New York, S.B. Hamilton College 1922
- RANDOLPH TUCKER SMITH, of Arkansas, A.B. Washington and Lee University 1920
- LAWRENCE WILLIS SMITH, of Ohio, A.B. Marietta College 1922
- JESSE SAMUEL SPANGLER, of Maryland, A.B. Franklin and Marshall College 1922
- JOSEPH P. SPARKS, of Illinois, A.B. Johns Hopkins University 1922
- RAYMOND ROSCOE SQUIER, of Colorado, A.B. University of Colorado 1922
- WILLIAM KURTZ STOWERS, of Mississippi, S.B. Mississippi Agricultural and Mechanical College 1922
- MARGARET SWIGART, of Maryland, A.B. Goucher College 1922
- ELMER JAY TEAGARDEN, JR., of Maryland, Ph.B. Yale University 1920
- ISAAC RIDGEWAY TRIMBLE, of Maryland, A.B. Princeton University 1922
- HENRY BROWN TURNER, of New York, A.B. Princeton University 1920
- CHARLES RAYMOND WILCOX, of Iowa, S.B. Northwestern University 1921, M.S. 1922
- ROBERT ERMON WILSON, of Mississippi, A.B. Vanderbilt University 1916
- LAWRENCE FOSS WOOLLEY, of Utah, A.B. University of Utah 1922
- STANLEY WORDEN, of Maryland, A.B. Johns Hopkins University 1922

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RECIPIENTS OF THE WILLIAM HENRY HOWELL AWARD

JAMES BORDLEY, III, of Maryland

BENJAMIN MAY BAKER, JR., of Virginia

MUSIC

The program is under the direction of Edwin L. Turnbull (A.B. '93) and will be presented by The Johns Hopkins Orchestra, Charles H. Bochau, Conductor.

The orchestra was founded in 1919 by the Johns Hopkins Musical Association and the officers are E. L. Turnbull, *President*; F. H. Gottlieb, *Vice-President*; Frank Morley, *Secretary*; J. B. Whitehead, *Treasurer*; F. C. Smith, *Executive Secretary*; Miss Anne Kinsolving, *Assistant Secretary*. The orchestra has a membership of about eighty, most of whom are amateurs, and some professionals assist at concerts. Fiftytwo symphony concerts have been given and the orchestra has played on fourteen occasions for public exercises of the University. In the nine public appearances of last season, the audiences reached a total of approximately 15,000, including patients in the hospitals, and many music lovers who are unable to pay for tickets to professional symphony concerts.

OTHER PUBLIC APPEARANCES OF THE ORCHESTRA THIS SEASON:

January 17th-4 p. m. Concert, Baltimore Museum of Art.

- February 4th-8 p. m. Sidney Lanier Commemoration under the auspices of the Johns Hopkins University, at the Peabody Institute.
- February 22nd-10.45 a.m. Johns Hopkins University Commemoration Day Exercises, at the Peabody Institute.

March 28th-4 p. m. Concert, Church Home and Infirmary.

May 18th-8.30 p. m. Concert, War Memorial Auditorium.

May 30th-4 p. m. Concert, Johns Hopkins Hospital.

June 6th-8.30 p. m. Concert, Homewood Campus.

June 8th-3.45 p. m. Johns Hopkins University Commencement Exercises at the Lyric.