Conferring of Degrees
At the Close of the Seventy-Fifth Academic Year

June 12, 1951

Gilman Hall Terrace
At Ten A.M.
ORDER OF PROCESSION

CHIEF MARSHAL

Henry T. Rowell

Divisions

1. The President of the University, the Chaplain, Honored Guests, the Trustees
2. The Faculty
3. The Graduates

Marshals

Fritz Machlup

Malcolm C. Moos
Howard E. Cooper
Walter C. Boyer
Hans W. Gatzke
Walter W. Ewell
John M. Kopper
Acheson J. Duncan
Richard M. Alt
Richard A. Mumma
Gilbert F. Otto
Barnett Cohen
J. Harvey Wheeler

USHERS

John H. Berbert
Lane B. Carpenter
William R. Fonshell
Harry Austin Fox
Mathew H. M. Lee

Bernard F. McGuigan
Robert H. Scott
R. Champlin Sheridan
Charles E. Wagner
Donald G. Warner

ORGANIST

John H. Eltermann

The audience is requested to stand as the academic procession moves into the area and remain standing until after the Invocation.
ORDER OF EXERCISES

I
Processional
March from "Euryanthe" by Von Weber

II
Invocation
Canon Harold N. Arrowsmith
Cathedral of the Incarnation

III
Address to Graduates
The President of the University

IV
Conferring of Honorary Degrees
Dr. Alexander Graham Christie — presented by Professor Roy
Dr. Raymond Dexter Havens — presented by Professor Malone
Dr. Arthur Oncken Lovejoy — presented by Professor Boas
Dr. John Boswell Whitehead — presented by Professor Dieke
Dr. Robert Williams Wood — presented by Professor Hamburger

V
Conferring of Degrees
Bachelors of Arts — presented by Dean Cox
Bachelors of Engineering — presented by Dean Kouwenhoven
Bachelors of Science in Engineering
Masters of Science in Engineering
Masters of Engineering
Doctors of Engineering
Bachelors of Science in Business — presented by Dean Hawkins
Bachelors of Science — presented by Dean Horn
Bachelors of Science in Nursing
Masters of Education
Doctors of Education
Masters of Science in Hygiene — presented by Professor Stebbins
Doctors of Science in Hygiene
Masters of Public Health
Doctors of Public Health
Doctors of Medicine — presented by Dean Chesney
Masters of Arts, School of Advanced International Studies — presented by Dean Thayer
Masters of Arts — presented by Professor Lancaster
Doctors of Philosophy

VI
Benediction

VII
Recessional
"Coronation Anthem" by Handel

The audience is requested to remain standing after the Benediction until the graduates have left the area.
CANDIDATES FOR DEGREES

BACHELORS OF ARTS

ALBERT SEVERIN ANDERSON, of Westport, Conn.
* DAVID LEE ABENBERG, of Baltimore, Md.
  JOHN JOSEPH AVER, of Baltimore, Md.
  GEORGE KORNER BAER, of Baltimore, Md.
  RICHARD ANTHONY BAFFORD, of Baltimore, Md.
  JOHN MARSHALL BALDER, of Baltimore, Md.
  NAVY F. X. BAYNARD, Jr., of Baltimore, Md.
  JOHN SIMMONS BARTTH, of Cambridge, Md.
  LESTER THOMAS BEALL, Jr., of Brookfield Center, Conn.
  ALAN JOYCE BEARDE, of Baltimore, Md.
  THOMAS TIMOTHY BEDNAREK, of Berlin, Wis.
* ROBERT IRVING BEIRG, of Baltimore, Md.
  RUDOLPH BOISSIERT, Jr., of Woonsocket, R. I.
* ALBERT BENNETT BRADLEY, of Baltimore, Md.
  JOHN THOMAS BROOKS, of Baltimore, Md.
  OWEN ARTHUR BROOKS, of Natick, N. J.
  GEORGE MARCUS BROWN, of Valley Stream, N. Y.
  WILLIAM HUGH BUCKMAN, of Baltimore, Md.
  HARRY MARSHALL BURDETT, Jr., of Baltimore, Md.
  WALTER DEAN BURNHAM, of Baltimore, Md.
  JOHN ANDREW BURNS, of Baltimore, Md.
  WILLIAM MOORE BURNS, of Baltimore, Md.
  WILLIAM JOHN CARROLL, of Sparks, Md.
  JOSEPH CARL CASTELLANO, of Brooklyn, N. Y.
  ROBERT ALLISON CHAMPLIN, of Baltimore, Md.
  KENNETH CHINN, of Honolulu, Hawaii.
  WILLIAM FLOYD CLINGER, of Warner, Pa.
  RICHARD GILMORE COLENETE, Jr., of Baltimore, Md.
  REMO JOHN COLARUSO, of Newark, N. J.
  JOHN JOSEPH COLLINS, of Morrisville, Pa.
  WILLIAM STEPHEN COPPAGE, Jr., of Baltimore, Md.
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  DONALD HOWARD DEMBO, of Baltimore, Md.
  AUGUST ADAM DENHARD, Jr., of Randallstown, Md.
  JAMES BAKER DONNELLY, of Baltimore, Md.
  JAMES BERRYMAN EISEL, of Baltimore, Md.
* FELIX FALK, of Baltimore, Md.
  WILLIAM JOSEPH FENZA, Jr., of Ridley Park, Pa.
  RICHARD STEPPES FISH, of Fort Lauderdale, Fla.
  MILTON CHARLES FISHER, of Baltimore, Md.
  WILLIAM BYRON FORBUSII, II, of Baltimore, Md.
  SAMUEL LYLES FREELAND, of Easton, Md.
  GEORGE HAMILTON FRENCH, of Baltimore, Md.
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  DAVID LEEDOM GERMAN, of Philadelphia, Pa.
  GEORGE TRAVERS GILMORE, of Baltimore, Md.
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  THOMAS ARTHUR GONZALEZ, of Wayzata, Minn.
* SOLOMON WOLF GOLDBERG, of Baltimore, Md.
  GARY SWAN GOSHORN, of Baltimore, Md.
  PETER JOSEPH GOURAS, of Brooklyn, N. Y.
  ZADE WHITLOCK GREEN, of Fall Brook, Calif.
  JOHN CLARKE GRIFFIN, of Baltimore, Md.
  LESTER MORTON GROTZ, of Baldwin, N. Y.
  DONALD EDMONDSON HEATHCOTE, of Wayzata, Minn.
  ALVIN WILFRED HECKER, of Baltimore, Md.
  JAMES MACDONALD HENDERSON, of Gilroy, Calif.
  CALVIN DAVID HENWIT, of Coggon, Iowa.
  EDWIN GILMORE HIGGINS, of Baltimore, Md.
  JOHN RYLAND HINRICH, of Riderwood, Md.
  HARRY LEE HOFFMANN, III, of Cockeysville, Md.
  ALAN FREDERICK HOPF, of Hyattsville, Md.
  RICHARD BERNArd HORNICK, of Johnstown, Pa.
  THOMAS HICKS HUBBARD, of Baltimore, Md.
  CHARLES FLETCHER HUGHES, Jr., of Baltimore, Md.
  SAMUEL JOSEPH HUNTER, of Frostburg, Md.
  FRANK ANTHONY IULII, of Vineland, N. J.
  PAUL LANE IVES, Jr., of Chester, Pa.
  JAMES MOFFETT JAGGER, of Larchmont, N. Y.
  GEORGE WILLIAM JENKINS, II, of Memphis, Tenn.
  ERAN JOHN JERUSAEL, of Curacao, Netherlands W. Indies.
  GEORGE KARMAK, Jr., of Baltimore, Md.
  DOUGLAS CHAPLIN KERR, of Baltimore, Md.
  DAVID CHARLES KEEGAN, of Elgin, Ill.
  EDWARD SULLIVAN KELLER, of Baltimore, Md.
  JOHN RICHARD KECHEN, of New Britain, Conn.
  JULES P. KIRSCH, of Baltimore, Md.
  JOHN CORNELIUS KISTLER, of Baltimore, Md.
  BERNARD KRAMER, of Baltimore, Md.
  ALLAN deGOLIER LAMMRELL, of Baltimore, Md.
  RAYMOND JOYCE LANDON, Jr., of Middletown, Pa.
  WILTON LAWRENCE LAQUE, of Baltimore, Md.
  CHARLES RICHARD LEHNER, of Towson, Md.
  JAY MILFORD LEVY, of Baltimore, Md.
  WILLIAM ASA LITTLE, of Towson, Md.
  MARTIN EUGENIO LITZ, of Baltimore, Md.
  DAVID ELMER LIVINGSTON, of Portsmouth, Ohio

* Graduating with departmental honors.
GRADUATING WITH GENERAL HONORS

John Marshall Balder
Robert Irving Berg
Walter Dean Burnham
William Stephen Coffage, Jr.
Felix Falk
Milton Charles Fisher
Gerald Drexler Garston
Solomon Wolf Golomb
Peter Joseph Gouras

Benjamin Turner Sankey, Jr., of Baltimore, Md.
Howard Schneor, of Baltimore, Md.
Edwin Howard Seeker, of Baltimore, Md.
Harry Donald Sierer, of New Castle, Del.
John Oliver Simons, of Frostburg, Md.
Charles McCanah Smyrk, Jr., of Baltimore, Md.
Philip Francis Spartan, of Stamford, Conn.
Charles Walling Spicer, Jr., of Hampstead, Md.
Charles Stabinisky, of Norwalk, Conn.
Robert Martin Stark, of Far Rockaway, N. Y.
Walter Ernest Steidle, of South Salem, N. Y.
Edward Bradley Stellmann, Jr., of Pikesville, Md.
Ashby Gordon Stiff, Jr., of Baltimore, Md.
Karl Edgar Sussman, of Baltimore, Md.
Constantine Theodore Theremenos, of Baltimore, Md.
Alan John Thompson, of Riverton, N. J.
Peter Trueman Thompson, of Mt. Lebanon, Pa.
Albert Franz Torek, of Oxford, Md.
Albert Leroy Trucker, Jr., of Baltimore, Md.
Eli Lincoln Viacezy, of Baltimore, Md.
Fernando Giuseppe Vescia, of Italy
George Demosthenes Vlahakis, of Brooklyn, N. Y.
Louis Peter Vlangas, of Baltimore, Md.
Will Walker Ward, Jr., of Frankfort, Ky.
James Donald Warren, of Plainfield, N. J.
Kenneth Clayton Watson, Jr., of Baltimore, Md.
William Gerald Watson, of Harrisburg, Pa.
Palmer Francis Castiglione Williams, Jr., of Pikesville, Md.
Daniel Ira Wincor, of Miami Beach, Fla.
Robert Milton Worsofold, of Ramsey, N. J.
Lewis Carroll Yingling, Jr., of Baltimore, Md.
Herbert Leonard Yousem, of Baltimore, Md.
Paul Michael Zavell, of Flint, Mich.

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John Marshall Balder
Robert Irving Berg
Walter Dean Burnham
William Stephen Coffage, Jr.
Felix Falk
Milton Charles Fisher
Gerald Drexler Garston
Solomon Wolf Golomb
Peter Joseph Gouras

Paul Michael Zavell

*Graduating with departmental honors.
BACHELORS OF ENGINEERING

CONSTANTINE CHRIST ALEXIOU, of Baltimore, Md.
DONALD CHARLES ALLERACH, of Altoona, Pa.
ROBERT HUGH ANDREW, of Riderwood, Md.
MICHAEL ANTHIAS, of Baltimore, Md.
JOSEPH THOMAS ATKINS, of Baltimore, Md.
JOHN CARROLL ATKINSON, of Baltimore, Md.
ROBERT BENJAMIN BARTLETT, of Baltimore, Md.
LAUREN MILFORD BEYARD, of Hagerstown, Md.
LEONARD BLOOM, of Baltimore, Md.
HENRY CLAYTON BOMHARDT, of Baltimore, Md.
ERNST EDWARD BORSTNER, Jr., of Baltimore, Md.
JAMES EDWIN BRNEMAN, Jr., of Baltimore, Md.
WILLIAM HARRISON BROWNING, of Mt. Airy, Md.
VERNON WILSON BRUMBAUGH, of Clayton, Mo.
CHARLES BULIK, of Baltimore, Md.
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ROBERT SIMON BUXBAUM, of Baltimore, Md.
NEROTH JOHN CACKO, of Alleppey, S. India
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RAYMOND STEPHEN COLLINS, of Baltimore, Md.
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NED BRANT ELLIOTT, of Hagerstown, Md.
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RICHARD LESLIE GOLDEN, of Baltimore, Md.
JOHN TORSCH GORSUCH, Jr., of Baltimore, Md.
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MELVIN GORDON GRAY, of Baltimore, Md.
EARL DOMER GRIM, Jr., of Baltimore, Md.
WALTER JOHN GURA, of Baltimore, Md.
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JOSEPH LEO HELLMAN, of Baltimore, Md.
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WILLIAM JOHN HUEY, of Baltimore, Md.
RAT THOMAS HILL, of Little Rock, Ark.
FRANK WILLIAM HLAVC, of Baltimore, Md.
CHARLES PHILIP HOFFMAN, of Baltimore, Md.
FRANK PHILIP HURKA, Jr., of Baltimore, Md.
WILLIAM J. HYDE, of Baltimore, Md.
RICHARD LAMOND IRWIN, of Westminster, Md.
ANTHONY MICHAEL JAKUB, of Elizabeth, N. J.
TYLER JANNET, of Nazareth, Pa.
EARLE SPENCER JOHNSON, of Baltimore, Md.

EMANUEL FRANCIS KAISER, of Baltimore, Md.
JOSEPH JACOB KIMMEL, of Baltimore, Md.
ROBERT ELIAS KOLE, of Cumberland, Md.
HARVEY DAVID KUSHNER, of Baltimore, Md.
CHARLES PETER LACH, of Baltimore, Md.
MARC SAUL LANDAU, of Kingston, Pa.
ROBERT STANLEY LEITHE, of Coronado, Calif.
EDWARD GEORGE LETEKUS, of Baltimore, Md.
RALPH CHARLES LEVY, of Baltimore, Md.
VINCENT ANTHONY MIRGIO, of Houston, Tex.
GEORGE MICHAEL MAISTROS, of Baltimore, Md.
WARREN LEE MANN, of Oakland, Md.
HUGH CLEMENT MARTIN, of Arlington, Va.
CLARENCE BURNHAM MCCOMAS, Jr., of Millville, N. J.
MARSHALL HAMPTON MCCORD, Jr., of Baltimore, Md.
HERBERT HOOVER MC DONALD, of Choptank, Md.
THEODORE WILLIAM MINTOSH, of Baltimore, Md.
THOMAS DONALD MCKEWE, of Baltimore, Md.
CHARLES RIDGELY McWILLIAMS, of Leonardtown, Md.
ROGER EDISON MERRILL, of Elkton, Md.
DEAN GEORGE MILLER, of Bel Air, Md.
PAUL REX MILLER, of Baltimore, Md.
LARS ERIK MOLANDER, of Chevy Chase, Md.
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CARROLL EDGAR MORGAN, of Baltimore, Md.
ALAN DAVID MORRIS, of Baltimore, Md.
CARL RUSSEL MOYER, of Washington, D. C.
JOHN SMITH MURPHY, of Woodbine, Pa.
ROBERT BENNETT NAENY, of Baltimore, Md.
CLARENCE W. NELSON, Jr., of Baltimore, Md.
WILLIAM RIGDELY NICHOLS, of Baltimore, Md.
PAUL LEE NORRIS, of Baltimore, Md.
THOMAS JOSEPH O'MARA, of Baltimore, Md.
ALBION DEER PARSONS, of Hampstead, Md.
ROBERT ARTHUR PATRICK, of Baltimore, Md.
DONALD EUGENE PAUPE, of Cumberland, Md.
HARRY JOHN PETERS, of Baltimore, Md.
EDWIN ROBERT PHILLIPS, of Kingston, Pa.
ADISON EUGENE PUFFER, of Baltimore, Md.
ALFRED PROCK, of Baltimore, Md.
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ALFRED MICHAEL REEK, of Staten Island, N. Y.
JOHN KENNETH RIPPEL, of Baltimore, Md.
JOHN WILLIAM RITTERHOFF, of Baltimore, Md.
EARL WILLIAM ROBERTS, Jr., of Baltimore, Md.
DONALD EDWARD ROESCH, of Baltimore, Md.
BERNARD CHARLES ROSSMAN, of Baltimore, Md.
JOHN EDMUND RUECKERT, of Baltimore, Md.
PHILIP WILLIAM SCHOLTES, of Baltimore, Md.
CHARLES LEBOY SCHRADE, of Jamaica, N. Y.
GEORGE ELLIS SCHUBERT, of Baltimore, Md.
WILLIAM HERMAN SCHWARZ, of Baltimore, Md.
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<th>Name</th>
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<td>Gordon Thomas Service, of Baltimore, Md.</td>
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<td>Charles Richard Shieckels, of Baltimore, Md.</td>
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<td>BACHELORS OF SCIENCE IN AERONAUTICAL ENGINEERING</td>
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<td>Francis Joseph Borofka, of Baltimore, Md.</td>
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<td>Edward John Otto Himmel, of Baltimore, Md.</td>
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<td>Bertram Benjamin Grollman, of Brooklyn, N. Y.</td>
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<td>John Leroy Hellman, of Baltimore, Md.</td>
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<td>Herbert Walfred McNulty, of Jamaica, L. I., N. Y.</td>
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<td>John Wolfe Stout, Jr., of Baltimore, Md.</td>
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<td>Donald Henry Carstens, of Baltimore, Md.</td>
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<td>James F. Michael McKinley, of Baltimore, Md.</td>
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<td>Theodore Peter Pajak, of Baltimore, Md.</td>
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<td>Leslie John Pierre, of Severna Park, Md.</td>
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<td>August Richard Wolfe, of Baltimore, Md.</td>
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<td>BACHELORS OF SCIENCE IN ELECTRICAL ENGINEERING</td>
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<td>Martin Lenzi Bosse, of Baltimore, Md.</td>
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<td>Edward John Leimkuhler, of Baltimore, Md.</td>
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<td>BACHELORS OF SCIENCE IN INDUSTRIAL ENGINEERING</td>
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<td>Albert Milton Carl Steinbach, of Baltimore, Md.</td>
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BACHELORS OF SCIENCE IN MECHANICAL ENGINEERING

WALTER MENDRICH, of Baltimore, Md.
RICHARD GASSAWAY SMITH, of Baltimore, Md.

GRADUATING WITH HONOR
RICHARD GASSAWAY SMITH

MASTERS OF SCIENCE IN ENGINEERING
WITH TITLES OF ESSAYS

An Analysis of Some Methods of Steam Turbine Regenerative Cycle Heat Balance Calculations.

The Effect of Legally Loaded Heavy Trucks on Highway Bridges in Maryland.

LOUIS BAEKISWYL, Jr., of Cincinnati, Ohio, B. S. M. E. Northwestern University, 1946. Electrical Engineering.
An Analysis of an Electro-Hydraulic Closed Loop Servo-mechanism.

HAROLD BERZOF, of Edgewood, Md., B. S. Ch. E. Northeastern University, 1939. Chemical Engineering.
Dielectric Studies in Non-Polar Polymers.

LAWRENCE PHILIP BISCHOFF, of Baltimore, Md., B. S. United States Military Academy, 1943. Electrical Engineering.
History and Developments Leading to the Establishment of Absolute Standards of Measurement.

Pulse Time Measurement.

Investigation by Electrical Analogy of Partially Penetrating Wells in Aquifers.

Microwave Impedance Measurements.

LEONARD SIDNEY BUCHOFF, of Baltimore, Md., B. S. The Johns Hopkins University, 1948. Chemical Engineering.
The Kinetics of the Formation of Parathion.

The Management Staff—A Study of Staff Organization for Methods Engineering with Special Reference to Small Industry.

ROBERT LEWIS CARNAHAN, of Falls Church, Va., A. B. University of California, Los Angeles, 1950. Civil Engineering.

EMMETT VIRGIL CONKLING, of Kansas City, Mo., B. S. E. E. University of Notre Dame, 1934. Electrical Engineering.
Magnetometers.


Surface Area of Paint Films.

SHELDON IRVIN EULER, of Baltimore, Md., B. E. The Johns Hopkins University, 1950. Industrial Engineering.
A Study of Stockroom Inventory Requirements in Housing Maintenance.

SHEI CHING FUNG, of Canton, China, B. Sc. National Central University, Chungking, China, 1946. Mechanical Engineering.
Thermal Stresses in a Bar of Rectangular Section.

BERNHARD VICTOR GERBER, of Baltimore, Md., B. E. The Johns Hopkins University, 1948. Chemical Engineering.
The Inhibition of Styrene Polymerization by p-Nitroso Phenol.

Tree Resistance.

An Apparatus and Technique for Measuring the Thermal Conductivity of Powdered Material.

Investigation by Means of the Electrical Analogy of Seepage under Dams on a Permeable Foundation of a Finite Depth.

Impact of a Sphere on a Two-Span Beam.


Some Properties of a-Naphthohexeone and Starch as Colorimetric Reagents for Iodine Analysis.

RAY CLYDE HAWS, of La Faria, Tex., B. S. C. E. University of Texas, 1949. Sanitary Engineering.

Decomposition of Cyanide in Soil.

NORRIS JACKSON HUFFINGTON, Jr., of Baltimore, Md., B. E. The Johns Hopkins University, 1949. Mechanical Engineering.

Structures Subjected to Explosive-Type Loading.

MALCOLM CORWIN JOHNSON, of Baltimore, Md., B. S. United States Military Academy, 1941. Electrical Engineering.

Atmospheric Radio Noise.


DONALD JAY KOHLER, of Bakersfield, Calif., B. S. United States Military Academy, 1945. Electrical Engineering.

Missile DOVAP and Radar Plotting.

JAMES HUGH MATES, of Baltimore, Md., B. S. Ch. E. Texas College of Arts and Industries, 1949. Chemical Engineering.

Hents of Adsorption of Water on Silica Gel.


Characteristics of the High Current Direct Current Are between Electrodes Moving at High Speeds.

GEORGE E. MILES, of Edgewood, Md., B. S. New York University, 1937. Chemical Engineering.

Investigation of Surface Chemistry of the Photolithographic Process.

GLEN RAYMOND MORE, of Baltimore, Md., B. S. Milwaukee School of Engineering, 1941. Electrical Engineering.

The Effect of Varying the Parameters in the Grid Circuit of an Inductively Coupled Oscillator.


Passenger Accommodation on Emigrant Shipping.

HOLMES ORGAINE, of Baltimore, Md., B. S. M. E. Purdue University, 1936. Sanitary Engineering.

Environmental Studies with Relation to Urban Rat Populations.


Electrical Phenomena in Living Systems.


The Tolerance of Fresh Water Fish to Ammonia-Ammonium Wastes and Soft and Hard Waters.


Effect of Organic Matter in the Control of Culex Fatigans by DDT Larvicide.

AVRAHAM REIN, of Tel-Aviv, Israel, M. E. Hebrew Technology Institute, 1947. Industrial Engineering.

A Study of the Maintenance and Operation of Diesel Engines.


Adsorption from a Gaseous Stream.

FRANCIS JOHN SLAEY, of Coolidge, Pa., B. S. Lehigh University, 1947. Sanitary Engineering.

Study of Deflectors with Undepressed Curb Inlets.


A Review of Powdered Magnetic Core Materials.


The Design of a Subsonic Multistage Axial-Flow Compressor for Maximum Power per Stage.

WILLIAM BROCKENBROUGH TAYLOR, of Norfolk, Va., B. S. United States Military Academy, 1945. Electrical Engineering.

Pulsed Operation of Klystrons.


A Two-Stage Axial Flow Compressor with Non-Uniform Energy Addition per Stage.

DONALD WILLIAMS TECKER, of Towson, Md., B. E. The Johns Hopkins University, 1950. Civil Engineering.

Condition Survey of the Resurfacing on U. S. 49 Northeast from Baltimore to Aberdeen, Maryland.


Some Aspects of the Calibration of a Supersonic Wind Tunnel.

(45)
DOCTORS OF ENGINEERING
WITH TITLES OF DISSERTATIONS

Influence of Water Vapor on High Current Ares in Air.

Donald Lloyd Birx, of Baltimore, Md., B. E. The Johns Hopkins University, 1944. Electrical Engineering.
Electric Strength of Air at Radio Frequencies.

Richard Edward Farrah, of Lynneburg, Va., B. S. Virginia Polytechnic Institute, 1933; M. E. The Johns Hopkins University, 1949. Chemical Engineering.
Adsorption of Dyes.

An Investigation of the Rotary Vacuum Filter Cycle as Applied to Sewage Sludges.

Herbert William Hoffmann, of Oak Ridge, Tenn., B. E. The Johns Hopkins University, 1943. Chemical Engineering.
Heat Transfer Coefficients for Air at High Temperatures.

Delay Time for the Initiation of Slip in Metal Single Crystals.

Oscillations in Direct Current Ares.

Merrill Ivan Skolnik, of Baltimore, Md., B. E. The Johns Hopkins University, 1947; M. S. E., 1949. Electrical Engineering.
Characteristics of the High Current Tungsten Ares in Argon, Helium and their Mixtures.

BACHELORS OF SCIENCE IN BUSINESS

John Cecil Applegate, of Cambridge, Md.
John Bennett Backes, of Wallingford, Conn.
Archibald Stuart Baldwin, of Glen Arm, Md.
William Claude Bareham, of Cockeysville, Md.
Robert Laurence Bean, of Waterbury, Conn.
Mottier Bremke, of Baltimore, Md.
Darwin James Blaine, of Brooklyn, N. Y.
Thomas Hunt Drattan, of Baltimore, Md.
Stanley Harvey Broder, of West Orange, N. J.
Roger Stuart Brown, Jr., of Mountain Lakes, N. J.
Richard Warren Burns, of Port Jarvis, N. Y.
James Stewart Clark, of Baltimore, Maryland
James Emory Cooper, Jr., of Baltimore, Md.
Edward Robert Cresaf, of Beckley, West Va.
Gut Nelson Cromwell, Jr., of Baltimore, Md.
Ralph Perry Crowder, of Brooklyn, N. Y.
Richard David Crenkleton, of Baltimore, Md.
Robert Towles Cummins, of Baltimore, Md.
Richard Owen Degenhard, of Baltimore, Md.
Thomas Moran Dinmore, of Lutherville, Md.
Paul Louis Dulow, of Glen Arm, Md.
Arthur Harold Eickhoff, of Baltimore, Md.
Etha Brockway Ely, of New York, N. Y.
Robert James Erihard, of Baltimore, Md.
Eugene Robert Ferris, of Wood Ridge, N. J.
Robert Page Gary, of Baltimore, Md.

Israel Howard Goldstein, of Baltimore, Md.
Stewart Eccleston Gordon, of Carmel, Ind.
Arthur Crockin Grant, of Baltimore, Md.
Thomas Underwood Greene, Jr., of Baltimore, Md.
Burton Ehrlich Greenwood, of Baltimore, Md.
Charles Carroll Habliston, III of Estes Park, Colo.
Robert Milton Hall Jr., of Baltimore Md.
Ernest Edward Hansen, of Manhasset, L I, N. Y.
Robert James Hessenacker, of Baltimore, Md.
Herbert Melvin Hutt, of Woodbridge, N. J.
Stewart Martin Hutt, of Woodbridge, N. J.
George Robert Hutt, of Baltimore, Md.
Robert William Kemp, of Baltimore, Md.
John Gerard Lemon, of Baltimore, Md.
Richard Albert Marks, of Reading, Pa.
Henry Werle Maly, of Baltimore, Md.
Robert Lyle Nelson, of New Britain, Conn.
John Edward Messer, Jr., of Cincinatti, Ohio
Gerard Barrie Moorsdorf, of Hashbrouck Heights, N. J.
Desmond Houston Murphy, of Brooklyn, N. Y.
Arthur Joseph Novotny, of Baltimore, Md.
Howard Clarence Porter, of Brookline, Mass.
Edmund Alfred Rendine, of East Providence, R. I.
Dwight Hall Rollins, of Manhasset, N. Y.
Frank Sauter, III, of Brooklyn, N. Y.
John James Sheridan, of Baltimore, Md.
Marshall Bernard Streety, Jr., of Baltimore, Md.
Thomas Strat Summers, Jr., of New Freedom, Pa.
Frederick Charles Sutter, of New York, N. Y.
James Esler Stymphal, Jr., of Baltimore, Md.

James Patten Trotter, Jr., of Youngs, N. Y.
Donald Jacob White, of Ridgewood, N. J.
Stanley Peter Wilson, of Baltimore, Md.
Charles Douglas Wood, of Annapolis, Md.

GRADUATING WITH HONOR

Thomas Hunt Brattan
Ralph Perry Crowder

Charles Douglas Wood

BACHELORS OF SCIENCE

Ellsworth George Ackef, of Baltimore, Md.
Anne Catherine Ame, of Baltimore, Md.
Selma Elvina Valborg Andersen, of West Palm Beach, Fla.
Bernard Alotysiu Appel, of Baltimore, Md.
Jacob Bassan, of Baltimore, Md.
Forest Tecumseh Benner, of Baltimore Md.
Emma Ruth Wright Boatman, of Randallstown, Md.
Lavonia Linds Bohn, of Baltimore, Md.
Ethel Ford Brannan, of Baltimore, Md.
Walter Taylor Cook, of Baltimore, Md.
Anta Margaret Cooke, of Baltimore, Md.
Samuel Cooper, of Baltimore, Md.
Mary Work Culbertson, of Baltimore, Md.
Margaret Dehner, of Baltimore, Md.
Raymond Robert Denison, of Washington, D. C.
HeLEN Inez Dewling, of Baltimore, Md.
Paul Eisberg, of Baltimore, Md.
Lois M. Erickson, of Jamestown, N. Y.
Elizabeth Baldwin Fox, of Baltimore, Md.
David Abraham Freedenberg, of Baltimore, Md.
Madeline Rae Fuhrman, of Baltimore, Md.
Jacob Cleveland Fuller, Jr., of Baltimore, Md.
Francis Davies Garrett, of White Hall, Md.
Edwin Merriam Glocker, of Baltimore, Md.
Nancy Wright Goulst, of Baltimore, Md.
Marvin Leonard Greenbaum, of Baltimore, Md.
Lila Greenstein, of Baltimore, Md.
Marie Elizabeth Griffin, of Baltimore, Md.
Alice Jeanette Hancock, of Baltimore, Md.
Donald Lynn Heffner, of Baltimore, Md.
Margorie Forsman Hin, of Baltimore, Md.
Harriet Neff Hodges, of Annapolis, Md.
Jessie Owings Hollenberry, of Baltimore, Md.
Parley Pratt Huff, of White Hall, Md.
Carol Greta Jacob, of New York, N. Y.
HeLEN Corrider Johns, of Baltimore, Md.
William Henry Kaltenbach, of Baltimore, Md.

Mary Regina Kernan, of Baltimore, Md.
LoUella Elizabeth Klug, of Baltimore, Md.
Gertrude Carolyn Eberle Kousz, of Baltimore, Md.
Nancy Lee Lawyer, of Westminster, Md.
Elizabeth Margaret Lewis, of Baltimore, Md.
Edward Theodore Marquardt, of Baltimore, Md.
Nona Irene Merkel, of Baltimore, Md.
Joan Abbott Meyer, of Baltimore, Md.
Louis Wootford Miller, of Baltimore, Md.
Verna Grace Evans Montak, of Baltimore, Md.
Calvin Pierce Moss, of Punta Gorda, Fla.
Edna Grace Neal, of Baltimore, Md.
Katherine Elizabeth Nichols, of Baltimore, Md.
Herbert Edwin Noreiko, of Baltimore, Md.
Margaret Ellen Norris, of Baltimore, Md.
Rahlay Edward Osbette, of Towson, Md.
Walter Lee O'Neill, Jr., of Baltimore, Md.
Edward Brownley Owens, of Annapolis, Md.
John Fred Owings, Jr., of Frederick, Md.
Edith May Panetti, of Baltimore, Md.
William Gibson Paul, of Baltimore, Md.
Thelma Virginia Perego, of Baltimore, Md.
Elsie Mason Pettun, of Rapidan, Va.
Emma Myrtle Pike, of Baltimore, Md.
Harriet Shostack Pollack, of Baltimore, Md.
William Jeryl Powell, of Baltimore, Md.
Margaret Lovisiah Richardson, of White Hall Md.
Alice Emma Rider, of Baltimore, Md.
Joan Kaplan Romero, of Baltimore, Md.
Joseph Burns Rozmarynowski, of Baltimore, Md.
Mary Margaret Schad, of Baltimore, Md.
Regina Clare Schneider, of Baltimore, Md.
David M. Schuman, of Baltimore, Md.
Naomi Rose Seidman, of Baltimore, Md.
Mildred Shanklin, of Baltimore, Md.
Thomas Fisher Sheevey, of Baltimore, Md.
Vera Doris Single, of Baltimore, Md.
Ellen Eshom Sloan, of Hamptonville, N. C.
Elroy Joseph Snouffer, of Lansdowne, Md.
ALMIRA LOUISE SPIRO, of Baltimore, Md.
WALTER WILLIAM STAUFFEN, of Baltimore, Md.
PETER STRAK, of Baltimore, Md.
JOSEPHINE THERESA TORO, of Baltimore, Md.
ROBERT ELVA TRESSEL, of Baltimore, Md.

JACOB BASSAN
HELEN CORRIER JOHNS

MARY ETHEL TROYER, of Parkton, Md.
ELIZABETH FRANCES WEBSTER, of Pylesville, Md.
BERTHA FRANCES WELDON, of Baltimore, Md.
LARYNE RUTH WHALEN, of Springfield, Mass.
CATHERINE BERNARDINE WHITE, of Baltimore, Md.

GRADUATING WITH HONOR

NAOMI ROSE SEIDMAN
ETHEL FORD BRANNAN
HELEN INEZ DEWLING

BACHELORS OF SCIENCE IN NURSING

JOY LATTA ASHLEY, of Pensacola, Fla.
ELIZABETH MARLOW BLACKBURN, of Baltimore, Md.
ELIZABETH ANN BOGGIS, of Zanesville, Ohio
EVELYN JANE BOICE, of Adrian, Mich.
JACQUELINE FORDICK BRONSON, of Fort Pierce, Fla.
NANCY ELIZABETH BROOKS, of Yadkinville, N. C.
SUSAN GREY BUMPASS, of Virginia, Va.
ROSE MARY BURROUGHS, of Alexandria, Va.
LUCIA LEE CABOT, of Concord, Mass.
ANN HENRIETTA CHRISTOPHER, of Jasper, Ala.
THEODORA C. DISTEPANO, of Tyrletown, Miss.
HELEN PRISCILLA GRAY, of Jackson, Miss.
MARY TAYLOR GUTHRIE, of Harvey, Illinois
MARY THEODOSIA HALL, of Lake Forest, Ill.
BETTIE LOU HERING, of Sykesville, Md.
DORIS MARY HIGGINS, of Denver, Colo.

JOAN HOFFMAN, of Long Beach, Calif.
ELEANOR M. IBRAHIM, of Perry Point, Md.
KATHLEEN FOOTE KENNEDY, of Lockport, N. Y.
DOROTHY J. McKENZIE, of Fredonia, Pa.
ESTHER ROSE MOORE, of Bassett, Va.
CATHERINE LORRAINE MORTON, of Takoma Park, Md.
LOIS GEORGIA PAGORIA, of Harvey, Ill.
PATRICIA ANNE PRUNER, of Washington, D. C.
ELIZABETH LAWRENCE SHERMAN, of Chicago, Ill.
ELIZABETH DAVIES ETRE SISSON, of Reidville, N. C.
ADELE MANDELA SPARKS, of Upperco, Md.
KATRINA ANN SWECKER, of Keyser, West Va.
GERALDINE ANN WAYBRIGHT, of Gettysburg, Pa.
CATHERINE FRANCES WHITE, of Colonial Beach, Va.
ELIZABETH ANN WISEMAN, of McArthur, Ohio

GRADUATING WITH HONOR

MARY THEODOSIA HALL

MASTERS OF EDUCATION

CLARA BANOS, of Baltimore, Md., A.B. Hunter College, 1942.

SAMUEL EDGAR CLOPPER, of Baltimore, Md., B. S. State
Teachers College, Towson, Md., 1946.

SONIA DORIS COHEN, of Baltimore, Md., A.B. Goucher
College, 1948.

HARRY GORDON CORNER, of Baltimore, Md.

ERIC GALL CONNOLLY, of North Swansea, Mass., B. S. in

RALPH CECIL DANIELS, of Baltimore, Md., B. S. in Educ.
State Teachers College, Towson, Md., 1948.

ARCHIBALD GOLDER, of Baltimore, Md., A.B. The Johns
Hopkins University, 1918.

THOMAS NELSON HAASE, of Baltimore, Md., A.B. University
of Maryland, 1941.

ROSALIE BOLLINGER HARDesty, of Baltimore, Md., B. S. The
Hopkins University, 1947.

RHEA CHRISTINE HOGAN, of Baltimore, Md., A. B. Western
Maryland College, 1931.

BENJAMIN S. JOLFE, of Pikesville, Md., B. S. The Johns
Hopkins University, 1937.

OUIA STREET KALLMAYER, of Cumberland, Md., B. S. State
Teachers College, Frostburg, Md., 1937.

RUTH M. MAGILL, of Baltimore, Md., B. S. The Johns
Hopkins University, 1925.

JOHN HOWARD McCauley, Jr., of Baltimore, Md., B. S.
State Teachers College, Towson, Md., 1947.

HELEN MIXTER, of Baltimore, Md., B. S. The Johns Hop-
kins University, 1939.
Wilhelmina Elizabeth Oldfield, of Ellicott City, Md., B. S. The Johns Hopkins University, 1947.

Elsa Mouton Palmer, of Baltimore, Md., B. S. The Johns Hopkins University, 1936.

Spencer Frederick Runkle, of York, Pa., A. B. Ursinus College, 1940.

Alexina Gertrude Stidham, of Baltimore, Md., B. S. The Johns Hopkins University, 1938.

DOCTORS OF EDUCATION
WITH TITLES OF DISSERTATIONS


Francis Joseph Mueller, of Baltimore, Md., B. S. Loyola College, 1943; M. A. The Johns Hopkins University, 1947. Evaluations of College Faculties by Students.

Masters of Science in Hygiene
WITH TITLES OF THESIS


Amerco Alvino Marucci, of Orange, N. J., B. S. Rutgers University, 1944. Bacteriology. Quantitative Studies of the Precipitin Reaction between Urease and Rabbit Anti-Urease as Related to the Inhibition of Enzymic Activity.

Mary Ellen Patno, of Pittsburgh, Pa., B. S. University of Colorado, 1938. Biostatistics. The Utilization of a Mail Questionnaire in Obtaining Immunization Histories of First Grade Children.


Doctors of Science in Hygiene
WITH TITLES OF DISSERTATIONS

Helen Abbey, of Jackson, Mich., B. S. Battle Creek College, 1938; M. A. University of Michigan, 1940. Biostatistics. An Examination of the Reed-Frost Theory of Epidemics.

Eli Chernin, of New York, N. Y., B. S. College of the City of New York, 1944; M. A. University of Michigan, 1948. Parasitology. The Biology of Leucocytozoon simondi with Particu-
Ref to the Epizootiology and the Phenomenon of Relapse in the Domestic Duck.


Leo Kartman, of Los Angeles, Calif., B.S. University of Wisconsin, 1936; M. S. 1936. Parasitology.

Factors Influencing the Susceptibility of the Mosquito to Dirofilaria immitis (Leidy, 1856).


Estimation of the T-Year Survival Rate from Follow-up Studies over a Limited Period of Time.

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MASTERS OF PUBLIC HEALTH

Einar Aarval, of Lauvnes, Norway, M.D. University of Oslo, 1948.

Mary Josephine Alberti, of Washington, D. C., R.N. St. Luke's Hospital, New York City, 1932; B.S. Ohio State University, 1936.

Wilbur Charles Anderson, of Allison Park, Pa., Ph. G. University of Pittsburgh, 1931; B. Sc. 1937; M. Sc. 1939.

Anant Krishna Awiko, of Mandla, Madhya Pradesh, India, L. M. P. (C. P.), Robertson Medical School, 1937.

Jane Carol Baldwin, of Baltimore, Md., A. B. Skidmore College, 1937.

William Gladstone Beadenkoff, of Baltimore, Md., A. B. The Johns Hopkins University, 1937; M. D. 1941.

Theodore Cleveland Bedwell, Jr., U. S. Air Force, B. S. Southern Methodist University, 1931; M. D. Baylor University, 1933.

Ruth Koester Beecroft, of Washington, D. C., B. A. University of Minnesota, 1925; M. A. 1927; M. D. University of Southern California, 1938.

Hugo Behm, of Santiago, Chile, M. D. University of Chile, 1936.


Dale Corbin Cameron, U. S. Public Health Service, A. B. University of Nebraska, 1933; M. D. 1936.

Margaret Christine Emelie Cammaert, of Trail, British Columbia, Canada, R. N. University Hospital, Edmonton, Canada, 1943; B. Sc. University of Alberta, 1944.

Fernando Miguel Campos, of Lima, Peru, M. D. Universidad Mayor de San Marcos, 1945.

Pablo Arturo Capucchi, of Caracas, Venezuela, Dr. Medicine, Universidad Central Caracas, 1942.

Janette Claire Carlsen, of Manhattan, Kansas, B. S. Kansas State College, 1943.

Howard Winston Chapman, U. S. Public Health Service, B. S. C. E. West Virginia University, 1936.

William Hampton Children, Jr., of Signal Mountain, Tenn., A. B. Syracuse University, 1946.

Argell Benton Colyar, U. S. Public Health Service, M. D. University of Oklahoma, 1941.

Andres Cruz y Yambo, of Manila, Republic of the Philippines, A. A. University of the Philippines, 1939; M. D. University of Santo Tomas, 1944.

John Charles Cutler, U. S. Public Health Service, B. A. Western Reserve University, 1937; M. D. 1941.

Sambhu Nath Datta, of Calcutta, India, M. B. Calcutta University, 1943; B. A. 1947; D. T. M. 1948; D. P. H. 1949.

Josefa Kelmente de Ustaran, of Rosario de Santa Fe, Argentina, M. D. Universidad del Litoral, 1945; M. P. H. 1949.

William Thomas Doran, Jr., of Silver Spring, Md., A. B. Dartmouth College, 1930; M. D. Cornell University, 1934.

Alberto Epifanio Timoteo Dumont, of Santa Fe, Argentina, M. D. Universidad del Litoral, 1939; M. P. H. 1949.

Robert Lee Dunham, of Cincinnati, Ohio, C. E. University of Cincinnati, 1925.

Lewis Hendeger Justin Edward Fernando, of Colombo, Ceylon, L. M. S. Ceylon Medical College, 1940.


Richard Glenn Hahn, of New York, N. Y., B. S. Lafayette College, 1924; M. D. Harvard University, 1928.

Jack Howard Hemry, U. S. Air Force, D. V. M. Ohio State University, 1941.

Mir Aga Hessami, of Kabul, Afghanistan, Doctor of Medicine, Kabul Medical Faculty, 1944.

Jose Horwitz, of Santiago, Chile, M. D. University of Chile, 1932; Certificate of Public Health 1949.
MIRIAM GERTRUDE JOFFE, of Jerusalem, Israel, M. B. Ch. B. University of Capetown, 1941.

CLIFFORD STANLEY JOHNSON, of Washington, D. C., B. S. Duquesne University, 1936.

GORDON HENLEY JOSIE, of Ottawa, Canada, B. Sc. University of Manitoba, 1932; M. Sc. 1935.

PETRE WILHELM NEPOUMUK KESSLER, of Munich, Germany, M. D. University of Innsbruck, 1945.

STUART FORBY KITCHEN, of New York, N. Y., M. D. University of Western Ontario, 1926.

HILDA KNORLOCH, of Baltimore, Md., B. A. Barnard College, 1936; M. D. New York University, 1940.

HENRY WALLACE LANE, of El Dorado, Kansas, A. B. University of Kansas, 1933; M. A. 1936; M. D. 1939.

STANLEY JOHNSON LELAND, of Baltimore, Md., M. D. Vanderbilt University, 1928.

HEINRICH JOSEF LEUCHTER, of Weishaden, Germany, M. D. University of Berlin, 1944.

KUANG CHI LIANG, of Kaohsiung, Formosa, China, M. D. Taiboku Imperial University, 1945.

MYSORE LEAKSHMANA MUDALIAR LOGANATHAN, of Bangalore, Mysore, India, M. B. B. S. Mysore University, 1939; D. P. H. Calcutta University, 1945.

RAFAEL LORCA, of Santiago, Chile, M. D. University of Chile, 1928; Certificate in Public Health 1946.

RODRI GO LOBIA CORTES, of San Jose, Costa Rica, M. D. National University of Mexico, 1949.

ALI SYED MAHFOZ, of Karachi, Pakistan, M. B., B. S. Punjab University, 1946.

JACQUES NOEL MANCEAU, of Rio de Janeiro, Brazil, M. D. Faculdade Nacional de Medicina, 1944.

JOSEPH HAMILTON McNISCH, U. S. Army, A. B. Ohio State University 1927, M. D. 1930.


SHAMSUDDINE MOHAMAD HOSSEIN MOFID, of Iran, M. D. University of Teheran, 1945.

AMAURY PINTO DE CASTRO MONTEIRO, of Araraquara, Brazil, M. D. School of Medicine of Niteroi, 1941.

MINORU MURAMATSU, of Tokyo, Japan, M. D. Tokyo University, 1946.

HENRY GILBERT PAGE, of Ottawa, Canada, B. A. University of Ottawa, 1936; M. A. 1940.

EUNICE DELICIA CONSTANCE PEREIRA, of Colombo, Ceylon, L. M. S. Ceylon Medical College, 1936.

ROSIE PRYSTOWSKY, of Charleston, S. C., B. S. University of South Carolina, 1941; M. D. The Medical College of the State of South Carolina, 1944.

EARL WAYNE REBER, of New York, N. Y., B. S. Lebanon Valley College, 1942; M. D. Temple University, 1945.

DONALD HERBERT ROBINSON, U. S. Army, B. S. Grove City College, 1940; M. D. Hahnemann Medical College, 1945.


JOSEPH FELIX RUDMIN, of Port Leyden, N. Y., A. B. Cornell University, 1934; M. D. Columbia University, 1938.


PABLO AQUINO SANTOS, of Manila, Republic of the Philippines, A. A. National University, 1933; M. D. University of Santo Tomas, 1938.

JAMES EWING SCATTERDAY, of Jacksonville, Fla., D. V. M. Ohio State University, 1933.

RUTH ERENSTINE SIMONSON, of Syracuse, N. Y., R. N. University of Nebraska, 1930; B. Sc. University of Minnesota, 1942; M. A. Columbia University, 1945.

LOUISE VICTORIA SMITH-RAMOS, of Juncos, Puerto Rico, B. S. in Ph. University of Puerto Rico, 1941; M. D. University Laval, 1946.

JAMES CAMPBELL STRONG, of Paris, Tex., M. D. Baylor University, 1939.

MARY HERSCHEL SWANBERG, of Chicago, Ill., B. S. University of Chicago, 1942; M. D. 1946.

KALAYA VISESBADHYA, of Bangkok, Siam, M. B. Siriraj School of Medicine, 1943.

WILLIAM ARNOLD WALTER, Jr., U. S. Public Health Service, A. B. Indiana University, 1943; M. D. 1945.

KNUT BIRGER WESTLUND, Oslo, Norway, M. D. University of Oslo, 1949.

JACK JEROME WILLIAMS, of Stockton, Calif., A. B. University of California, 1943; M. D. 1947.

WILLIAM FERRELL WILSON, of Florence, Ala., B. A. Denison University, 1938; B. C. E. Ohio State University, 1940.

WILLIAM LOYELL WRIGHT, of Sarasota, Fla., A. B. University of Louisville, 1933; M. D. 1936.
DOCTORS OF PUBLIC HEALTH
WITH TITLES OF THESE

JOHN CHANDLER HUME, of Baltimore, Md., A. B. Princeton University, 1932; M. D. Vanderbilt University, 1936; M. P. H. The Johns Hopkins University, 1947. Public Health Administration.

An Evaluation of Prenatal Examination Legislation, Based on the West Virginia Experience.

JAMES RICHARD KINGSTON, U. S. Navy, M. D. University of Minnesota, 1930; M. P. H. Harvard University, 1939. Bacteriology.

Membrane Permeability and Growth of Virus in the Chick Embryo.


The Frequency and Geographic Distribution of Multiple Sclerosis as Indicated by Mortality Statistics and Morbidity Surveys in the United States and Canada.


A Study of the Mechanism of Cellular Invasion by Influenza Virus.


International Health Organization.


Mental Hygiene in the Prevention of Irregular Discharge of Patients Hospitalized with Tuberculosis.

BETSY GERALDINE WOOTEN, of Berkeley, Calif., A. B. University of California, Los Angeles, 1935; M. D. Washington University, 1940; M. P. H. The Johns Hopkins University, 1949. Public Health Administration.

The Emotional Status of 56 Prenatal Clinic Patients: Correlation with Obstetrical Experiences.

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DOCTORS OF MEDICINE

IZABELLA NINA ALDON, of New York, N. Y., University of Edinburgh.

EDWARD CLINTON ANDREWS, Jr., of Plainfield, Vt., A. B. Middlebury College, 1945.

HELEN THOMAS BAKER, of College Park, Md., S. B. University of Maryland, 1947.

JEROME BELLST, of Passaic, N. J., A.B. Vanderbilt University, 1947.

DAVID CLOYD BENNINGHOF, of Westminster, Md., A. B. Western Maryland College, 1947.


BURR NOLAND CARTER, II, of Richmond, Va., A. B. University of Virginia, 1947.

SOLOMON JAY COHEN, of New York, N. Y., A. B. Cornell University, 1944.

KENNETH McCUTCHEON COLE, Jr., of Dallas, Tex., S. B. in Chem. Eng., Georgia School of Technology, 1944.

JOHN EDMUND COLES, of Rexburg, Idaho., A. B. University of California, 1947.

HAROLD ARTHUR COLLINS, of Sandersville, Miss., A. B. West Virginia University, 1947.

LUCIEN JAMES COQUET, of Dallas, Tex., S. B. Agricultural and Mechanical College of Texas, 1939.


ROBERT DURLEY DEAN, of Byhalia, Miss., S. B. University of Mississippi, 1946.

ARTHUR LAURENCE DREE, of San Francisco, Calif., A. B. Stanford University, 1943.

HARRY ERNEST DEHAVEN, Jr., of Bridgeport, W. Va., A. B. West Virginia University, 1947.

CHARLES W. DUNKS, of Ellwood City, Pa., S. B. Geneva College, 1938; M. S. Pennsylvania State College, 1939; Ph. D. 1943.
JACQUELYN JOANNE DECKER DENKO of Ellwood City, Pa., A. B. Hope College, 1947.

ALFRED LOUIS DESANCTIS, of New York, N. Y., A. B. Hamilton College, 1939.

FRANCIS MARKOE DUGAN, of Baltimore, Md., A. B. Georgetown University, 1939.

JAMES RALPH DUNN, Jr., of Sunter, S. C., S. B. Davidson College, 1943; M. A. Emory University, 1947.

HELEN BROWN FLYNN, of Caledonia, Minn., A. B. Huntington College, 1947.

Pierce Julius Flynn, of Caledonia, Minn., S. B. Marquette University, 1947.


Jacob Alexander Haller, Jr., of Pulaski, Va., A. B. Vanderbilt University, 1947.

Bradford Hardie, III, of El Paso, Tex., S. B. Agricultural and Mechanical College of Texas, 1942.

Mary Clare Harmon, of South Euclid, Ohio, A. B. Western Reserve University, 1946.

John Louis Heideman, of Baltimore, Md. A. B. St. John's College, 1943.

Thomas Russell Hendrix, of Tarzana, Calif., A. B. University of California at Los Angeles, 1947.

Walter Samuel Henly, of Albuquerque, N. M., S. B. University of New Mexico, 1947.

Jesse Donald Hubbard, of Sardinia, Ind., A. B. DePauw University, 1943.


Andrew Floyd Jannett, of Hammonmtont, N. J., A. B. LaSalle College, 1943.

Harold Lee Johnson, of Frankfort, Ky., A. B. Centre College, 1947.


Wilson Hwei-Tuen Lo, of Shanghai, China, S. B. University of Nanking, 1945.

John Hayes Lodge, of Bridgeport, W. Va., A. B. West Virginia University, 1947.

Martha Ray Lumpkin, of Louisburg, N. C., A. B. Woman's College of the University of North Carolina, 1947.


Thomas Hartley Maren, of Mount Vernon, N. Y., A. B. Princeton University, 1938.

Jane Bell McKewen, of Towson, Md., S. B. The Johns Hopkins University, 1945.

Gary Owen Morris, of Del Rio, Tex., A. B. Baylor University, 1946.

George Lawrence Norton, of Salt Lake City, Utah, S. B. Utah State Agricultural College, 1947.


Paul Raymond Overhulse, of Hamler, Ohio, A. B. Harvard University, 1947.


Leon Clair Perry, of Madison, W. Va., A. B. West Virginia University, 1947.

Herman Pinkerton, Jr., of Cookeville, Tenn., S. B. Tennessee Polytechnic Institute, 1947.

Giacomo Pirzio-Biroli, of Udine, Italy, University of Rome.


George Joseph Richards, Jr., of San Francisco, Calif., S. B. University of California, 1942.


Victoria Salas-Umana de Aguirae, of San José, Costa Rica, A. B. Barnard College, 1946.

George Ferdinand Schnack, of Honolulu, Hawaii, A. B. Stanford University, 1939; M. A. 1940.

A. M. Shelton, Jr., of Austin, Tex., A. B. University of Texas, 1947.


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CHARLES LOUIS TANNER, of Meridian, Miss., A. B. University of Mississippi, 1941.

PAUL MITCHELL TAYLOR, Jr., of Baltimore, Md., A. B. The Johns Hopkins University, 1947.

GABRIEL FREDERICK TUCKER, Jr., of Cynwyd, Pa., A. B. Princeton University, 1947.

JOHN CALVIN TURNER, Jr., of Miami, Fla., S. B. Davidson College, 1943.

EBERHARD HENRY UHLENHUTH, of Baltimore, Md., S. B. Yale University, 1947.


FREDERICK WILLIAM WIESE, of South Mountain, Pa., A. B. The Johns Hopkins University, 1940.


JULIO CESAR WONG, of Colon, R. of Panama, A. B. University of California, 1947.

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MASTERS OF ARTS

IN THE SCHOOL OF ADVANCED INTERNATIONAL STUDIES


ABDUL JALIL AL-RAWI, of Baghdad, Iraq, License, College of Law, Baghdad, Iraq, 1934.


JOSEPH EDWARD BANTA, of New York, N. Y., B. A. Amherst College, 1950.


JOHN ROBERT CURTIS, Jr., of Dallas, Tex., B. A. George Washington University, 1950.

JOSEPH ANTHONY DI STEFANO, of New Brunswick, N. J., B. A. Rutgers University, 1950.

DAVID DUBERMAN, of Mobile, Ala., B. A. University of Alabama, 1950.

ERLAND FRISVOLD, of Oslo, Norway, University of Oslo.

WILLIAM TUDOR GriSWOLD, II, of Pasadena, Calif., B. S. University of California, 1948.

DAVID UPGREFF GROVES, of Washington, D. C., B. A. University of Maryland, 1950.


WILMA JEAN HARDY, of Columbus, Ohio, B. A. Miami University, 1950.

EDWIN BONNER House, of Houston, Tex., B. A. The Rice Institute, 1937.

KIYOKI KIKUCHI, of Sendai, Japan, Hogakushi, Tokyo University, 1944.


MILTON J. MIKOLASEK, of Prague, Czechoslovakia, B. A. University of Georgia, 1948.

JOHN ROYAL MILLS, of Wilmette, Ill., B. S. Northwestern University, 1950.

BLAIR ALEXANDER MOFFETT, of Springfield, Pa., B. A. Swarthmore College, 1949.


MILES McMILLEN Prescott, of Ft. Lauderdale, Fla., B. A. Ohio Wesleyan University, 1949.

FREDERIC ROCKWELL GLADSTONE SANBORN, of Brooklyn, N. Y., B. A. Yale College, 1949.

WILLIAM LEHMAN SMITH, of Boothwyn, Pa., B. A. Dickinson College, 1950.


WALLACE HOLMES SPAULDING, Jr., of Seattle, Wash., B. A. University of California, 1950.

JOHN R. VOUGHT, of Peekskill, N. Y., B. A. St. Lawrence University, 1950.

WILLIAM CLEMENT WISELEY, of Findlay, Ohio, B. A. Amherst College, 1950.

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MASTERS OF ARTS
WITH TITLES OF ESSAYS

JEROME HILLER ABRAMS, of Baltimore, Md., B. S. The Johns Hopkins University, 1948. Art.

DUANE LOWELL BARNEY, of Topeka, Kan., B. S. Kansas State College, 1930. Chemistry.


ALBERT LAMBERT BETHEL, of Glen Burnie, Md., B. S. United States Military Academy, 1944. Physics.

CHRISTIAN EDWARD BJERKNESS, of Baltimore, Md., A. B. University of Maryland, 1948. Writing, Speech and Drama.

Cassandra and Other Poems.


WILLIAM EDWARD BUCHANAN, of Towson, Md., B. S. The Johns Hopkins University, 1950. Writing, Speech and Drama.

There Glows a Sphere: A Novel.

ELIZABETH BULATKIN, of Baltimore, Md., Romance Languages.


LESLIE WILFORD CAMP, of Provo, Utah, B. S. Brigham Young University, 1950. Geology.

THOMAS ARTHUR CARLSON, of West Hartford, Conn., B. S. Trinity College, 1950. Chemistry.


JAMES W. CARPER, of Oyster Point, Va., A. B. Indiana University, 1949. Psychology.


Let These Delight, and Elizabethan Comedy Revisited.


The Parliamentary Career of Joseph Hume 1817-1832.


The Use of the Regional Concept in Economic Studies.


CARL PLACKY EPSTEIN, of Waterbury, Conn., A. B. Tulane University, 1947. German.

Death in the Poems of Conrad Ferdinand Meyer.


WILLIAM JOSEPH FLETCHER, of Baltimore, Md., A. B. St. Mary's Seminary, 1940; S. T. B., 1942. History.

The Contribution of the Faculty of Saint Mary's Seminary to the Solution of Baltimore's San Domingan Negro Problem 1793-1852.


Das Leitmotiv in Otto Ludwigs Erzählungen Die Heitererel und Zwischen Himmel und Erde.

FRANCIS XAVIER GALLAGHER, of Baltimore, Md., A. B. Loyola College, 1949. Writing, Speech and Drama.

A Handbook of Strategy for Modern College Debating.

CLAUDE GERARD, of Towson, Md., A. B. The Johns Hopkins University, 1949. Writing, Speech and Drama.

World Without End: A Novel.

JAMES EDWARD GRIFFISS, of Baltimore, Md., A.B. The Johns Hopkins University, 1950. Writing, Speech and Drama.

Proust and Bergson: An Approach to the Problem of Poetry and Philosophy.


ROBERT ELVIN HAZEL, of Silver Spring, Md., A. B. George Washington University, 1946. Writing, Speech and Drama.


PAUL CHRISTOPHER HINRICHS, of Baltimore, Md., A. B. The Johns Hopkins University, 1950. Writing, Speech and Drama.

The Stage is Set, Enter the Poet: An Inquiry into the State of Modern Poetic Drama.


ROGER HYNDMAN, of Los Angeles, Calif., A. B. University of California, Los Angeles, 1950. English.


The Impact of F. O. B. Mill Pricing on Maryland Manufactures.


EOLIN CATHERINE KUPER, of Ruxton, Md., B. S. The Johns Hopkins University, 1949. Writing, Speech and Drama.


Business Income Taxes and Investment Structure.


DENNIS MANITAS, of Brockport, N. Y., B. E. Brockport State Teachers College, 1943. English.

JAMES WALTER MCgary, of Severna Park, Md., B. S. State Teachers College, Slippery Rock, Pa., 1939; B. S. United States Coast Guard Academy, 1942. Physical Oceanography.


The Child in Theodor Storm's Early Novellen.


REMOND KATHLEEN MOLZ, of Baltimore, Md., B. S. The Johns Hopkins University, 1949. English.


MICHAEL HUNT MURRAY, of Towson, Md., A. B. Harvard University, 1948. Art.


ELIZABETH ANN NIELSEN, of Rio de Janeiro, Brazil, A. B. New York University, 1943. Writing, Speech and Drama.

The Octopus: A Novel.

WILLIAM NUSBAUM, of Harrisonburg, Va., B. S. Virginia Polytechnic Institute, 1939. Geology.

SONIA FELLMER OSLER, of Baltimore, Md., A. B. Hunter College, 1933. Psychology.


Constant Temperature Operation of the Hot-wire Anemometer at High Frequencies.


JOHN ANGELO PENTZ, of Baltimore, Md., A. B. The Johns Hopkins University, 1925. Writing, Speech and Drama.

The Moral Element in Ibsen's Dramatic Works up to 1882.


* Died October 18, 1950.
WILLIAM THOMAS POLLOCK, of Morgantown, W. Va., A.B. West Virginia University, 1949. Psychology.


GEORGE PITTS RALEIGH, of Baltimore, Md., A. B. Princeton University, 1944. History.

An Old John Ball.


GERRIT HUBBARD ROLOFS, of Baltimore, Md., A. B. Amherst College, 1942. English.

DAVID RICHARD ROSENTHAL, of Baltimore, Md., A. B. Haverford College, 1950. Writing, Speech and Drama.

Fiction, and the Contemporary American Novel.


Some Considerations of Minority Interests in Holding Company Accounting.

DONALD JOHN SARATINE, of Roseto, Pa., B. S. Lafayette College, 1950. Chemistry.


BENJAMIN TURNER SANKEY, Jr., of Baltimore, Md., A. B. The Johns Hopkins University, 1950. Writing, Speech and Drama.

Cason City, and Other Stories.

KENNETH BUDD SAYRE, of Oakland, Calif., A. B. Reed College, 1950. Writing, Speech and Drama.

A Room in Saturn: A Collection of Poems.

FRANCIS WILLIAM SCHORK, of Cleveland, Ohio, A. B. Oberlin College, 1949. Romance Languages.

JAMES FRANKLIN SCOOGIN, Jr., of State College, Miss., B. S. Mississippi State College, 1941; B. S. United States Military Academy, 1944; C. E. E. University of Grenoble, France, 1945. Physics.


Commerce and Security as Factors in Australian-American Relations, 1919-1922.


The Bundesrat of Bonn.


MARY BLANCHE STEWART, of Baltimore, Md., A. B. Vassar College, 1937. Writing, Speech and Drama.

Bernard Shaw's Cockeye.


The 14th Century German Version of Marco Polo's Travels.

EDWARD HENRY TALLAIFERRO, of Annapolis, Md., A. B. University of Alabama, 1943. Writing, Speech and Drama.

Heart of Stone, and other Stories.

FLOYD O'NEILL THOMAS, of Baltimore, Md., A. B. Western Maryland College, 1949. Philosophy.


MARSHALL SAYRE TURNER, Jr., of Baldwin, Md., A. B. University of the South, 1937. Education.


A Collection of Short Stories.

PETER GRANGER VAN DER POET, of Baltimore, Md., A. B. Yale University, 1913. History.

Count Stephen of Blois, Crusader.

WILLIAM BENTLEY WALKER, of Ruxton, Md., A. B. Harvard University, 1944. History of Medicine.

Dr. John Crawford of Baltimore (1746-1813).


DOCTORS OF PHILOSOPHY
WITH TITLES OF DISSERTATIONS

A Dielectric Constant Method for Kinetic Studies.

An Electrophysiological Study of the Response of Chemoreceptors of the Tongue of the Rat to Salt Stimulation.

The Sources of Pseudo-Aseconius.

JOSEPH FELIX CAMPAGNOLO, of Westwood, N. J., B. Ch. E. New York University, 1942; M. S. Ch. E., 1947. Chemical Engineering.
Simultaneous Reaction and Distillation.

WILLIAM GILMOUR CARSON, of Baltimore, Md., A. B. Swarthmore College, 1944; M. Ch. E. The Johns Hopkins University, 1948. Chemical Engineering.
A Study of the Effect of an Electric Field on Adhesion to Metals.

JAMES FREDERICK CASE, of Baltimore, Md. Biology.
The Effects of Decapitation on the Functional Development of the Adrenal Cortex in the Chick Embryo.

The Theory of Inter-Sectoral Money Flows and Income Formation.

The Angular Correlation in the Li²⁺(d p⁺)Li⁺*(S) Li²⁻ Reaction.

WERNER VICTOR COHEN, of Baltimore, Md., B. Sc. London University, 1944; M. A. The Johns Hopkins University, 1948. Chemistry.
A Study of Betaine Intermediates in a Proposed Synthesis of Ergothioneine.

The Conductance of Various Coordination Compounds of Aluminum Chloride in Nitrobenzene at 25°.

SAMUEL PRESTON CUNNINGHAM, III, of Lake Charles, La., B. S. Louisiana State University, 1943. Physics.
Some Higher Electronic States in the Molecular Spectrum of Hydrogen and its Isotopes.

Canaanite-Phoenician influence in Qoheleth.

STANLEY MYRON DAVIS, of Baltimore, Md., B. S. University of Michigan, 1946; M. A. 1948. Chemistry.
A Study of the Reductive Amination of Some Aldehydes and Ketones.

KARL DECKER, of Öhringen, Germany, M. A. University of Kentucky, 1949. English.
The Dative of Accompaniment in Old English Poetry.

SHELDON HOLLAND DIKE, of Atlantic City, N. J., B. S. E. E. University of New Mexico, 1941. Electrical Engineering.
The Cylindrical Dipole as a Receiving Antenna.

STANLEY AUSTIN DUNN, of Laguna Beach, Calif., B. S. California Institute of Technology, 1943; M. A. The Johns Hopkins University, 1948. Chemistry.
The Use of the Dilatometer in the Study of Chemical Reaction Kinetics.


ROBERT EISNER, of Urbana, Ill., B. S. S. College of the City of New York, 1940; M. A. Columbia University, 1942. Political Economy.

DOUGLAS DAVID FEASTER, of Toronto, Ont., Canada, A. B. Victoria College, University of Toronto, 1948; M. A. The Johns Hopkins University, 1949. Classics.
Athenian Priesthoods: Their Historical Development from Earliest Times to the Rise to Power of Demetrios of Phaleron.

CLARENCE JAMES GLACKEN, of Baltimore, Md., A. B. University of California, 1930; M. A. 1931. Geography.

Studies in History and Culture of Edom.

JEROME GROSSMAN, of Peekskill, N. Y., B. Ch. E. Brooklyn Polytechnic Institute, 1944; M. S. E. The Johns Hopkins University, 1948. Chemical Engineering.

A Study of the Kinetics and Mechanism of Low Temperature Oxidation of Popcorn Polymer.


I. Studies on the Mold Metabolites Citrinin and Citromycetin.

II. The Dimers and other Polymere Products of the Aldoketenes.

MAURICE HOWARD HALSTAD, of San Diego, Calif., A. B. University of California, 1940. Geography.

The Relationship between Wind Structure and Turbulence near the Ground.

ROBERT BRUCE HAND, of Towson, Md., B. S. Virginia Polytechnic Institute, 1942; M. A. The Johns Hopkins University, 1948. Chemistry.

An Investigation of Some Anomalous Hydronium Ion Activities in Aqueous Systems of Silica and Alumina Ultragels.

BRYANT EUGENE HARRELL, Jr., of Norfolk, Va., B. S. Randolph Macon College, 1943; M. A. The Johns Hopkins University, 1944. Chemistry.


LEO ANTHONY HERRMANN, of Dundee, Fla., B. S. University of Miami, 1947. Geology.

The Structural Geology and Petrology of the Stone Mountain-Lithonia District, Georgia.


Chromopercution in Laccophilus.

SAMUEL IWRY, of Baltimore, Md., Teachers College, Wilno, Poland. Oriental Seminary.

The Damascus Document and the Dead Sea Scrolls.

FRED SCOTT JENSEN, of Denver, Colo., A. B. University of Rochester, 1942. Geology.

Preliminary Report on the Geology of the Nashua Quadrangle, Montana.

HANS JUEGENSEN, of Baltimore, Md. B. S. Upsala College, 1942. German.

The Use of the Symbol in the Prose Works of Conrad Ferdinand Meyer.

GEORGE GEHREY KLEINSPEYN, Md., A. B. Colgate University, 1944; M. A. The Johns Hopkins University, 1947. Chemistry.

Intermediates for the Synthesis of Chlorophyll-Type Porphyrins.

MICHAEL LETZOREK, of Baltimore, Md., B. S. College of the City of New York, 1942; M. A. The Johns Hopkins University, 1949. Psychology.

Two-Point Discrimination in Visual Space as a Function of the Temporal Interval between the Stimuli.


Pleistocene Climates and their Effect on the New World Migration of Ancient Man.

ROBERT ALTWIG McCLEARY, of Dayton, Ohio, A. B. Harvard University, 1944; M. D. The Johns Hopkins University, 1947. Psychology.

A Physiological Mechanism of Sugar Preference.


Far Infrared Spectroscopy from 100 to 700 Microns.


The Absolute Entropy of the Chloride Ion as Determined by Thermocell Measurements.

RICHARD WILLIAM McQUAID, of Towson, Md., A. B. University of California, 1943; M. A. The Johns Hopkins University, 1949. Chemistry.

The Electrical Conductance of Highly Desiccatecd Gels of Silica and Alumina.

EUGENE FRANCIS MURPHY, of Baltimore, Md., A. B. University of Toronto, 1941; M. A. University of Houston, 1942. Romance Languages.

An Interpretation of Mauriac’s Realism.

JOSEPH ALFRED NEVENKOPPER, of Alexandria, Va., S. B. Massachusetts Institute of Technology, 1941; S. M. 1941. Physics.

The Angular Yield of Deuterons and Alphas from the Proton Bombardment of Be².

ALFRED NISONOFF, of Baltimore, Md., B. S. Rutgers University, 1942; M. A. The Johns Hopkins University, 1948. Chemistry.

Kinetics of the Transaminase Reactions.

FREDERICK DORENCE OGDEN, of University, Ala., A. B. Tusculum College, 1938. Political Science.

The Poll Tax in the South.

CHARLES HARVEY PALMER, Jr., of Lewisburg, Pa., B. S.

An Experimental Study of the Anomalous Behavior of Diffraction Gratings.


The Interaction of Water with Aluminum Bromide and the Activity of the Reaction Products in Friedel-Crafts Reactions.


Part I—Dynamic Characteristics of Glow Discharges in the Rare Gases at Ultrasonic Frequencies.

Part II—The Formation of Molecular Helium in an Alternating Current Glow Discharge.

Edith Tilton Penrose, of Baltimore, Md., A. B. University of California, 1936; M. A. The Johns Hopkins University, 1948. Political Economy.

The Economics of the International Patent System.


Primitivism in French Literature of the Sixteenth Century.


Metabolic Products of Neurospora Crassa in the Presence of Para-Aminobenzoic Acid.


A High Temperature Source for Infrared Spectroscopy with an Application to the Pressure Broadening of N₂O at 8.6 μ.

William Edgeworth Thompson, of Baltimore, Md., B. S. University of Alabama, 1941; M. A. The Johns Hopkins University, 1949. Chemistry.


Difference Equations and J-Matrices.

John Michael Wozniak, of Chicago, Ill., A. B. St. Peter’s College, 1938; M. A. Fordham University, 1942. Education.

English Composition in Eastern Colleges, 1850-1940.

William Finley Wright, of Washington, D. C., B. S. University of the South, 1938; M. A. The Johns Hopkins University, 1946. Chemistry.

A New Comparison Type Nephelometer and Its Application to the Study of the Formation and the Structure of Silica Hydrogel.


An Analysis of Combined Infrared and X-Ray Effects on Tradescantia Chromosomes.