CONFERRING OF DEGREES
At the Close of the Seventy-Third Academic Year

JUNE 14, 1949

GILMAN HALL TERRACE
At Eleven A. M.
ORDER OF PROCESSION

CHIEF MARSHAL

G. HEBERTON EVANS, JR.

Divisions                  Marshals
1. The President of the University, the Chaplain, Honored Guests, the Trustees
   SIDNEY PAINTER
2. The Faculty
   THOMAS F. HUBBARD
   HOWARD E. COOPER, Chief
   HENRY T. ROWELL
   ROBERT H. ROY
   WALTER C. BOYER
   W. WORTHINGTON EWELL
   JOHN M. KOPPER
   ACHESON J. DUNCAN
   N. BRYLLION FAGIN
   RICHARD H. HOWLAND
   GILBERT F. OTTO
   BARNETT COHEN
   CHARLES A. BARKER
3. The Graduates

USHERS

Chief Usher—CLYDE W. HUETHER

ALLEN CASE  SLOAN GRISWOLD
FRANCIS C. CHLAM, JR.  JOHN P. LAUBER
WILLIAM B. CRANE  WILLIAM M. MILLER
CHARLES E. DAILEY  JOHN G. SCHISLER
BRIAN L. DEVAN  MALCOLM D. VOELKER

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
Grand March from "Sigurd Jorsalfar" by Grieg

II
Invocation
The Reverend CLARE J. O'DWYER
SS. Philip and James Church

III
Announcements and Greetings to Graduates
President DETLEV W. BRONK

IV
Address to Graduates
"The Strength of Democracy"
Dr. VANNEVAR BUSH

V
Conferring of Honorary Degrees
Dr. ISAIAH BOWMAN — presented by Mr. OWEN LATTIMORE
Dr. ABRAHAM FLEXXNER — presented by Dr. H. CARRINGTON LANCASTER
Dr. ALFRED NEWTON RICHARDS — presented by Dr. E. KENNERLY MARSHALL, JR.

VI
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 — presented by Professor WHITELAW
Doctors of Education
Masters of Science in Hygiene — presented by Dr. JOHN C. HUME
Doctors of Science in Hygiene
Masters of Public Health
Doctors of Public Health
Doctors of Medicine — presented by Dean CHESNEY
Masters of Arts — presented by Professor LANCASTER
Doctors of Philosophy

VII
Benediction

VIII
Recessional
Grand March from "Tannhäuser" by Wagner

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

BACHOLORES OF ARTS

ACHILLE RAYMOND ALBOZE, JR., of Sacramento, Calif.
SAMUEL ANSELYTTICH, of Baltimore, Md.
HERBERT ASHER, JR., of Monroe, N. Y.
FLAVIUS L. AUSTIN, JR., of Roswell, N. Mex.
VERNON CHARLES BACHMANN, of Baltimore, Md.
DANIEL BARRON, of Baltimore, Md.
RICHARD CALVIN BEESON, of Muncie, Ind.
CHARLES BENESCH, of Baltimore, Md.
JAMES FREDERICK BERRY, of Williamsport, Pa.
KARL FREDERICK BIEBER, of Baltimore, Md.
JOSEPH JAMES BLUMLINE, JR., of Baltimore, Md.
JORDAN SIDNEY BLOOM, of Baltimore, Md.
MARVIN BLUMBERG, of Baltimore, Md.
DAVID HERMAN BLOCK, of Sampson, N. Y.
MAX BODENHEIMER, of Baltimore, Md.
THEODORE HOLIDAY BOUCHERLE, of Elkton, Md.
CHARLES GORDON BOWERS, of Baltimore, Md.
RICHARD OLIVER BRIGHTFIELD, of Essex, Md.
HUBERT MARION BROWN, of Denver, Colo.
RALPH ALBERT BRUNN, of Baltimore, Md.
LEONARD ROBERT BUCKHEIT, of Baltimore, Md.
ROBERT EARL BUCKLEY, of Buffalo, N. Y.
WALTER HOUCK BYERLY, of Baltimore, Md.
PULICARPO CALLEJAS, of Tegucigalpa, D. C., Honduras
MARCUS NEWMAN CARROLL, JR., of Ormond Beach, Fla.
EDWIN BECK CARTON, of Cambridge, Md.
MORRIS SAMUEL CHESTER, of Baltimore, Md.
JOHN FINLY CLough, JR., of Baltimore, Md.
GERALD HARRY COOPER, of Baltimore, Md.
IRVING LEONARD COOPERSTEIN, of Baltimore, Md.
WINTON GUY COVEY, JR., of Baltimore, Md.
JOHN ALEXIE CRANE, JR., of Baltimore, Md.
ROGER MILLER DALSHIMER, of Pikesville, Md.
JAMES PAXTON DAVIS, JR., of Winston Salem, N. C.
LEROY LESLIE DRAPER, JR., of Baltimore, Md.
MALCOLM BURTON DREXLER, of Brooklyn, N. Y.
JOHN THOMAS EAGAN, of Baltimore, Md.
ROBERT HERMAN ECKERT, JR., of Baltimore, Md.
CHARLES ROGER EIGERT, of Baltimore, Md.
JAMES RUSSELL ENGLISH, of Baltimore, Md.
HAROLD ESSECOVER, of Brooklyn, N. Y.
JOHN EARL FEATHERS, JR., of Baltimore, Md.
LEWIS HOWARD FORD, of Baltimore, Md.
HARRY GORDON FRANKFURT, of Baltimore, Md.

SUMMER LESTER FREEMAN, of Haverhill, Mass.
FRANCIS CHARLES FRIELICHER, of Baltimore, Md.
ROBERT THOMPSON FROST, of Baltimore, Md.
JACK SUMNER GANS, of Roxbury, Mass.
JOEL GARBUS, of Baltimore, Md.
JOHN JOSEPH GARVEY, of Baltimore, Md.
CLAUDE GERARD, of Baltimore, Md.
EDMUND LEE GETTER, III, of Baltimore, Md.
EMANUEL STANLEY GLASSER, of Baltimore, Md.
RICHARD LEE GLASSER, of Baltimore, Md.
GEORGE GEIGER GREENER, of Merion, Pa.
WILLIAM E. GLICK, of Baltimore, Md.
STANLEY BARRY GOLDBERG, of Baltimore, Md.
ROBERT EARL GREENLEE, JR., of Baltimore, Md.
WILLIAM ALFRED GRESHAM, of Baltimore, Md.
CLEMENT JAMES GRESHOCK, of Akron, Ohio
LEONARD EARL GRISWOLD, of Baltimore, Md.
ARNOLD AVRAM GUTMAN, of Philadelphia, Pa.
LAWRENCE TINGLE GWYN, of Towson, Md.
LEONARD COLEMAN HARBER, of Long Beach, N. Y.
GEORGE WILLIAM HEPCK, JR., of Baltimore, Md.
JOHN WILBUR HEISSE, JR., of Baltimore, Md.
WILLIAM PAUL HILL, of Greenville, N. C.
ALLEN HOFSTIEB, of Brooklyn, N. Y.
HARVEY WILLIAM HONICK, of Baltimore, Md.
RICHARD HORTON HUGHES, of Morristown, N. J.
ROBERT WHISTON IRELAND, of Baltimore, Md.
MARK LEN ISAACS, of Baltimore, Md.
WILLIAM NOELLERT JOHNSTON, of Baltimore, Md.
RICHARD ALAN JOLSON, of Covington, Ky.
KENNETH ALLEN KAHN, of Boulder, Colo.
GEORGE ALBERT KAMMERER, JR., of Baltimore, Md.
HAYDEN GEORGE KEACH, JR., of York, Pa.
PETER SERVICE KERWIN, of New York, N. Y.
WILLIAM WATERS KIRK, of Baltimore, Md.
DONALD FREDERICK KLEIN, of Brooklyn, N. Y.
HENRY LEBOY KNOCK, JR., of Baltimore, Md.
HARRY GEORGE KOTHE, of Baltimore, Md.
RICHARD LEON KRAWIEC, of Baltimore, Md.
ARNOLD HENRY KR AWE, Jr., of Baltimore, Md.
MING-WEN KUNG, of New York, N. Y.
HAROLD L. LANDAU, of Kingston, Pa.
HARRISON MORZON LANGBALL, JR., of Baltimore, Md.
WILLIAM RUSSELL LAUTEBACH, of Redwood Falls, Minn.
ROBERT HENRY LEAHY, of Elizabeth, N. J.
BENJAMIN BUCK LEE, of Baltimore, Md.
DAVID LEVY, of Baltimore, Md.
ROBERT IRVING LEVY, of Baltimore, Md.
GEORGE CROMWELL LILLY, of Greensboro, N. C.
ALVIN B. LONDON, of Baltimore, Md.
NORMAN LOWE, of Oakland, Calif.
GERARD RICE LOWERY, Jr., of Fairfax, Va.
ALBERT WILLIAM LUTZ, of Baltimore, Md.
DOUGLAS MACNAB, of Baltimore, Md.
HARRY BYRON MARCOPOLO, of Baltimore, Md.
JOHN FRANCIS MEEHAN, of Baltimore, Md.
GEORGE STANLEY MELVILLE, Jr., of Yonkers, N. Y.
CALVIN MELVIN MENZIE, of Baltimore, Md.
CHARLES DALY MILLER, of Salem, Va.
CHARLES MINER MILLER, of Baltimore, Md.
JOSEPH BOXLEY MILLER, Jr., of Yazoo City, Miss.
JOHN GEORGE MONER, Jr., of Hayonne, N. J.
CARL THOMAS MOORE, of Baltimore, Md.
SAMUEL TILGHMAN MORRIS, of Baltimore, Md.
WILLIAM FOWLER MORRISON, Jr., of Raleigh, N. C.
IRWIN HAROLD MOSS, of Baltimore, Md.
MICHAEL C. MOTSKO, of Baltimore, Md.
GEORGE CHRISTIAN MULLINIX, of Baltimore, Md.
FRANK DAVID MOUSRAVE, of Baltimore, Md.
ANDREW MARTIN NEMETII, of Highland Park, N. J.
CLAYTON NORTON, of North Webster, Ind.
HARRY CLIPTON OSBORN, Jr., of Uppereco, Md.
ALBERT HENRY OWENS, Jr., of Staten Island, N. Y.
HUGH BRECKENRIDGE PAGON, of Baltimore, Md.
STERLING PATTERSON, Jr., of Baltimore, Md.
GEORGE CHARLES PECORELLA, Jr., of Baltimore, Md.
BARRY JOSEPH PLENEKETT, Jr., of Forest Hills, Md.
JAMES RICHARD POWDER, of Lutherville, Md.
JOSÉ RAMÍREZ RIVIERA, of Mayaguez, Puerto Rico
LEONARD RAVITZ, of Baltimore, Md.
THOMAS PYLE REID, of Milford, Conn.
CHARLES WILLIAM REINHARDT, II, of Baltimore, Md.
JOHN BROOKS RICE, of Montrose, W. Va.
MARTIN RODBELL, of Baltimore, Md.
PRESTON CHARLES ROGERS, Jr., of Baltimore, Md.
WILLIAM FRANKLIN ROMERIEK, of Baltimore, Md.
MARTIN RUBLERSTEIN, of Baltimore, Md.
WALTER ROEMER SATTERTFIELD, of Baltimore, Md.
STANLEY JEROME SCHAFFERO, of Baltimore, Md.
RICHARD SCHRAHL, of Tottenville, Staten Island, N. Y.
MARTIN SCHWARTZ, of Worcester, Mass.
CLARENCE H. C. SEATON, of Pikesville, Md.
MURRAY JORDAN SELDEN, of Baltimore, Md.
CHARLES KENDALL SERGEANT, of Baltimore, Md.
JOHN HAMILTON SETI, of Baltimore, Md.
JEROME EDWIN SHAPIRO, of Baltimore, Md.
DANIEL HAROLD SHEAR, of Baltimore, Md.
BERNARD JOSEPH SHERWIN, of Worcester, Mass.
THORNE SHIPLEY, of New York, N. Y.
JOEL ROBERT SIGEL, of Baltimore, Md.
WILLIAM MEREZ SINTON, of Baltimore, Md.
WILLIAM HOWY SLASMAN, Jr., of Baltimore, Md.
EDGAR JOSEPH SMITH, Jr., of Baltimore, Md.
RICHARD WAMPLER SMITH, of Baltimore, Md.
REGINALD KENNETH SQUARES, of Freeport, N. Y.
BURTON S. STERN, of Baltimore, Md.
MYRON SUBOTNIK, of Baltimore, Md.
NORMAN SUBOTNIK, of Baltimore, Md.
MORRIS TANENBAUM, of Baltimore, Md.
ROBERT LEWIS TALL, Jamaica, N. Y.
SHERWIN BRUCE TURNER, of Charlotte, N. C.
MICHAEK VASSALLO, of Fairfield, Conn.
WILLIAM RAYMOND VELICH, of Omaha, Nebr.
GRANT CHARLES VIESCH, of Baltimore, Md.
JOSEPH LOUIS VIGLIATO, of Baltimore, Md.
ALFRED VIOLA, of Baltimore, Md.
LEWIS FRANCIS VOLPE, of Wilmerding, Pa.
ISRAEL HOWARD WEINER, of Baltimore, Md.
JAMES FRANKLIN WHITE, Jr., of Kingsville, Md.
JOHN BATES WHITLA, of Arlington, N. J.
THOMAS PEARSON WILLIAMS, of Newburgh, N. Y.
FRANKLIN RALPH WINTER, of Baltimore, Md.
MARKLEY GORDON WOLMAN, of Baltimore, Md.
MAURICE LEON WOLPERT, of Baltimore, Md.
JAMES W. WOODS, of Wichita Falls, Texas
ARTHUR JOSEPH ZEBELEIN, of St. Albans, N. Y.

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GRADUATING WITH HONOR

FLAVIUS L. AUSTIN, JR.
CHARLES BENECH
HUBERT MARION BROWN
IRVING LEONARD COOPERSTEIN
WINSTON GUY COVEY, JR.
HARRY GORDON FRANKFURT
ROBERT THOMPSON FROST
CLAUDE GERARD
GEORGE GEIGER GLENNER
WILLIAM W. GLICK
ROBERT WHORTON IRELAND

HENRY LEROY KNAPP, JR.
ROBERT IRVING LEVY
HARRY CLIPTON OSBORN, JR.
BARRY JOSEPH PLUNKETT, JR.
JAMES RICHARD POWDER
WILLIAM FRANKLIN ROMERIEK
CLARENCE H. C. SEATON
MORRIS TANENBAUM
WILLIAM RAYMOND VELICH
ISRAEL HOWARD WEINER
MARKLEY GORDON WOLMAN
BACHELORS OF ENGINEERING

James Flitton Abbott, of Baltimore, Md.
Joel Ivan Abrams, of Baltimore, Md.
Anthony Alcamo, of Baltimore, Md.
Richard Compton Aldrich, of Baltimore, Md.
John Wehn Almy, of Baltimore, Md.
Wayne Prosper Amato, of Baltimore, Md.
John Richard Bailey, Sr., of Baltimore, Md.
Louis Balducci, of Baltimore, Md.
Wilmot Coles Ball, Jr., of Ridgewood, N. J.
Lawrence Lavenne Ballard, of Baltimore, Md.
Irving F. Barditch, of Baltimore, Md.
Bruce Carlton Barghse, of Baltimore, Md.
William Bonday Bargert, of Baltimore, Md.
Herbert Stanley Barr, of Baltimore, Md.
Francis Gordon Barry, of Baltimore, Md.
Stephen Hale Barzlett, of Baltimore, Md.
Charles Nebritt Bauer, of Baltimore, Md.
James Milton Bell, Jr., of Baltimore, Md.
James Ralph Benner, of McArthur, Ohio
Carl Wallace Bergstrom, of Baltimore, Md.
Joseph Martin Berkow, of Baltimore, Md.
George Miller Biddison, of Baltimore, Md.
Richard Paul Borchering, of Baltimore, Md.
Allen Brodsky, of Baltimore, Md.
Frederick Wesley Brown, of Baltimore, Md.
John Thomas Brown, Jr., of Baltimore, Md.
Stuart Leroy Brown, Jr., of Upper Marlboro, Md.
Armin Menzel Bruning, of Crownsville, Md.
Harold Charles Burgan, of Baltimore, Md.
Herman Elijah Burns, of Baltimore, Md.
William Donald Campbell, of Baltimore, Md.
Leroy Joseph Caprara, of Baltimore, Md.
Henry Devries Cassard, Jr., of Baltimore, Md.
Richard Knill Chapman, III, of Baltimore, Md.
Franklin Donald Christhelph, of Baltimore, Md.
George William Collins, of Rhodesdale, Md.
Robert Matthias Coulbourn, III, of Baltimore, Md.
John Dalton Coursey, of Grassville, Md.
William Moore Darragh, of Baltimore, Md.
Joseph Edward Dickerson, of Baltimore, Md.
Robert Gibson Dilly, of Baltimore, Md.
Harry Donald Dobe, of Baltimore, Md.
Charles William Donald, of Baltimore, Md.
Thomas Edward Donnelly, of Baltimore, Md.
John Henry Dotter, Jr., of Dundalk, Md.
George Robert Dryden, of Baltimore, Md.
Sigmund Robert Eckhaus, of Baltimore, Md.
Dietrich Henry Edel, Jr., of Baltimore, Md.
Michael Kosmas Eoannou, of Baltimore, Md.
Joseph George Fay, of Baltimore, Md.
Joseph Jerome Feldmann, of Scarsdale, N. Y.
Earl Bernard Ferguson, Jr., of Baltimore, Md.
William Henry Fleischman, of Baltimore, Md.
Charles Joseph Frank, of Baltimore, Md.
Jerome Martin Frankle, of Baltimore, Md.
William Charles Franz, Jr., of Baltimore, Md.
George Washington Frey, Jr., of Baltimore, Md.
Walter Augustus Friend, Jr., of Baltimore, Md.
Louis Joseph Frisco, of Patchogue, N. Y.
Robert Arnold Gerster, of Rye, N. Y.
Coy Montgomery Glass, of Dundalk, Md.
John Strider Glass, of Baltimore, Md.
Leonard Marvin Glass, of Baltimore, Md.
Seymour Robert Goodman, of Baltimore, Md.
Warren Jackson Gore, of Baltimore, Md.
Joshua Earl Greenspon, of Baltimore, Md.
Andrew Henry Greller, of Baltimore, Md.
Calvin Joseph Grochmal, of Baltimore, Md.
Joseph Robert Gutberlet, of Baltimore, Md.
Raymond Strothope Hackett, Jr., of Chase, Md.
Donald Richard Hagner, of Baltimore, Md.
Joseph Francis Hallameyer, of Baltimore, Md.
Arthur Hoyt Hand, of Baltimore, Md.
George Marcus Hansen, of Altoona, Pa.
Joseph Jacob Hanzook, of Baltimore, Md.
Charles Arthur Harper, Jr., of Flintstone, Md.
John Thomas Harper, of Baltimore, Md.
Calvert Kieffer Hartle, Jr., of Frederick, Md.
Carroll Gustay Heck, of Baltimore, Md.
Paul B. Hessemmer, of Baltimore Md.
Charles Roland Higon, Jr., of Baltimore, Md.
Arthur Charles Hildebrand, of Dundalk, Md.
Charles Louis Hock, of Baltimore, Md.
William Rand Hodges, of Baltimore, Md.
Henry Clay Hoffman, Jr., of Catonsville, Md.
Francis Gerald Holecheck, of Baltimore, Md.
Harry Lambert Holman, of Friendsville, Md.
John Andrew Hoover, of Baltimore, Md.
James Albert Houston, of Baltimore, Md.
John Edwin Houtz, of Baltimore, Md.
James Donald Howell, of War, W. Va.
Elliott Robert Hugdins, of Baltimore, Md.
Kenneth Dunlap Hudson, of Snow Hill, Md.
Norris Jackson Hupffington, Jr., of Baltimore, Md.
Edward Clarence Jastremski, of Baltimore, Md.
Joseph Kain, of Baltimore, Md.
Fred Carl Kaharaclou, of Weirton, W. Va.
Robert Edward Kegan, of Baltimore, Md.
Donald Clair Keplhart, of New Cumberland, Pa.
Stuart Robertson Keys, Jr., of Baltimore, Md.
Werner Klontzli, Jr., of Baltimore, Md.
Louis Valentine Koehler, of Baltimore, Md.
Harry Gregory Kosky, of Baltimore, Md.
Frank Martin Krantz, of Baltimore, Md.
Frank William Krebs, Jr., of Baltimore, Md.
Edward Thomas Kusterer, of Baltimore, Md.
Ervyn Leo Lambert, of Baltimore, Md.
Millard Tuttle Lang, of Baltimore, Md.
Edward Donald Lassain, of Baltimore, Md.
Charles Hazelhurst Latrobe, III, of Baltimore, Md.
Ephraim Lieberman, of Baltimore, Md.
William George Longest, of Baltimore, Md.
Charles Edward Lotz, of Baltimore, Md.
Henry Maxwell Lumb, III, of Baltimore, Md.
Clinton Kilty Macsheery, Jr., of Baltimore, Md.
James William Mannion, Jr., of Dundalk, Md.
LeRoy Brent Mathews, of Catonsville, Md.
Lester Matz, of Baltimore, Md.
Raymond Louis Meckel, of Baltimore, Md.
Charles Edwin Megginson, of Baltimore, Md.
Donald Marion Melvin, of Baltimore, Md.
Louis Joseph Menzen, Jr., of Dundalk, Md.
John C. Mesmerenger, Jr., of Baltimore, Md.
Norvell Elliott Miller, III, of Baltimore, Md.
Thomas Henry Miller, of Baltimore, Md.
Harry Milford Moses, of Fresno, Calif.
Isadore Moskowitz, of Baltimore, Md.
Morton Peter Moyle, of Arnold, Md.
Charles Burke Mudd, of Towson, Md.
John Charles Neu, of Baltimore, Md.
Albert Walter O'Shea, of Baltimore, Md.
Anthony O'Her, of Baltimore, Md.
Milford Meade Parry, of Baltimore, Md.
James Donald Paulus, of Baltimore, Md.
Robert Anton Pearce, of Baltimore, Md.
Harry Jackson Peyton, Jr., of Baltimore, Md.
Thomas Coulson Pinkerton, of Baltimore, Md.
Harry Jacobs Pistel, of Baltimore, Md.
Walter Winfield Ploines, of Baltimore, Md.
John Walter Pinkard, of Baltimore, Md.
William Abiathar Ranck, Jr., of Baltimore, Md.
Olae Norris Rask, of Baltimore, Md.
Charles Brodhead Rawlins, of Annapolis, Md.
George Levin Regester, of Baltimore, Md.
John Clifton Rehr, of Baltimore, Md.
Albert Reisz, of Baltimore, Md.

Joseph John Rembock, of Baltimore, Md.
Gordon Earl Rhodes, of Baltimore, Md.
Robert Francis Riley, of Catonsville, Md.
Jack Morris Robbins, of Cambridge, Md.
Louis Robinson, Jr., of Baltimore, Md.
Donald Stanley Rodbell, of Baltimore, Md.
Donald Paul Roseman, of Baltimore, Md.
Leonard George Rutkowski, of Baltimore, Md.
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Howard Edward Scheible, of Baltimore, Md.
Louis Scheuer, II, of Baltimore, Md.
Edmund W. Schiemer, of Baltimore, Md.
Alvin Kenneth Schiller, of Baltimore, Md.
Walter Daniel Schmidt, of Dundalk, Md.
Luther Kirwin Schneider, of Baltimore, Md.
Howard Auld Schnepper, Jr., of Baltimore, Md.
Henry George Schober, of Baltimore, Md.
Edward King Schultz, Jr., of Baltimore, Md.
Walter Edward Schubert, Jr., of Baltimore, Md.
John Selzlos, of Baltimore, Md.
Bernard Jerome Sevel, of Baltimore, Md.
Theodore Holbrook Siegel, of Baltimore, Md.
Joseph Gerstley Sinzheimer, of Baltimore, Md.
Leroy Harrington Smith, Jr., of Baltimore, Md.
Richard Wolfgang Sonnenfeld, of Baltimore, Md.
Knut K. Sorteberg, of Aal, Hallingdal, Norway
Harold Gustave Spangler, of Baltimore, Md.
John Edward Stallknecht, of Baltimore, Md.
Louis Duvall Starr, of Baltimore, Md.
Martin Herman Stephen, of Baltimore, Md.
George Henry Stiegler, Jr., of Baltimore, Md.
Mark Monteverde Stokes, of Towson, Md.
Jay Henry Stoudemire, of Baltimore, Md.
 Keefer Stanley Stull, Jr., of Frederick, Md.
Jerome Alphonse Svac, of Baltimore, Md.
William Patrick Sweeney, of Baltimore, Md.
Paul Baker Thomas, Jr., of Baltimore, Md.
James Pollard Thompson, of Baltimore, Md.
Stephen Charles Traugott, of Baltimore, Md.
William Morton Tucker, of Baltimore, Md.
Robert Archer Turner, of Baltimore, Md.
Norman Eugene Tyson, of Gardners, Pa.
William Kyle Upton, of Baltimore, Md.
Edward Alfred Valiant, of Baltimore Md.
James William Walsh, of York, Pa.
Myer Waranch, of Baltimore, Md.
Emel Nelson Wareheim, Jr., of Baltimore, Md.
Howard Waugh, Jr., of Baltimore, Md.
Charles Mervyn Weant, of Hagerstown, Md.
Walter Edward Wilhelm, of Baltimore, Md.
Robert John Walter Williams, of Baltimore, Md.  
David Curtis Wood, of Annapolis, Md.  
Franz Philip Young, of Baltimore, Md.  

George Paul Yucius, of Orlando, Fla.  
Carl Jay Zink, of Baltimore, Md.  

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Joel Ivan Abrams  
Bruce Carlton Barger  
LeRoy Joseph Caprarola  
Alfonso Joseph DeLeonardis  
Jerome Martin Frankle  
Normis Jackson Huffman, Jr.  

John Charles Neu  
Walter Daniel Schmidt  
Theodore Holbrook Siegel  
Richard Wolfgang Sonnenfeldt  
Keefer Stanley Stull, Jr.  
William Kyle Upton  

BACHELOR OF SCIENCE IN AERONAUTICS

Henry Dieter Dankenbring, of Queens Village, N. Y.

BACHELORS OF SCIENCE IN CHEMICAL ENGINEERING

Charles Edwin Couchman, Jr., of Baltimore, Md.  
Daniel Frederick Reisenweber, of Baltimore, Md.  

Irvin Anthony Stricker, of Baltimore, Md.  

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BACHELORS OF SCIENCE IN CIVIL ENGINEERING

William Otto Luette, Jr., of Baltimore, Md.  
Edward Brydon Stubs, of Catonsville, Md.  

Andrew James Stubler, of Baltimore, Md.  
Townley Robey Wolfe, III, of Baltimore, Md.  

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BACHELORS OF SCIENCE IN ELECTRICAL ENGINEERING

Thomas Edward Burke, of Baltimore, Md.  
William Clarke Cooke, Jr., of Baltimore, Md.  
Frederick Talbot Decock, of Baltimore, Md.  

Irvin Felix Freed, of Baltimore, Md.  
Stanley Taborsky, of Baltimore, Md.  

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BACHELORS OF SCIENCE IN INDUSTRIAL ENGINEERING

Mitchell Melvin Hall, Jr., of Baltimore, Md.  

Melvin Krolczyk, of Baltimore, Md.  

(2)

GRADUATING WITH HONOR

Mitchell Melvin Hall, Jr.

BACHELORS OF SCIENCE IN MECHANICAL ENGINEERING

George J. Fagan, of Odenton, Md.  
Harry Everett Koerner, of Baltimore Md.  
Edward Walter Kowalski, of Baltimore, Md.  
Henry Edmund Kulwicki, of Baltimore Md.  

Lyal Henry Peyton, of Baltimore, Md.  
Wilson Douglas Rutherford, of Baltimore, Md.  
Donald Eugene Somerset, of Baltimore, Md.  
Paul Gerard Swindell, of Fullerton, Md.  

(8)

GRADUATING WITH HONOR

Harry Everett Koerner
MASTERS OF SCIENCE IN ENGINEERING
WITH TITLES OF ESSAYS

MOHAMED MOHAMED AGAMISH, of Cairo, Egypt, C. E. Found 1st University, 1932. Sanitary Engineering.
Chemical Weed Control with Special Reference to Noxious Aquatic Weeds in Egyptian Irrigation Canals.

WILFRED EDMUND BAKER, of Baltimore, Md., B. E. The Johns Hopkins University, 1943. Mechanical Engineering.
Internal Damping of Vibration of a Cantilever Beam.

A Study of Free Lateral Vibration of a Cantilever Beam in a Centrifugal Field.

WILLARD RALPH BONWIT, of Pikeville, Md., B. S. United States Naval Academy, 1944. Industrial Engineering.
Union Participation in Time Study.

JOHN HARRISON CROWE, of Corpus Christi, Texas, B. S. United States Naval Academy, 1939. Electrical Engineering.
Magnetic Amplifiers.

JOSEPH PAUL D’AREZZO, of Los Angeles, Calif., B. S. United States Naval Academy, 1940. Electrical Engineering.

An Experimental Determination of the Spreading Thermal Resistance in a Cylindrical Metal Bar.

WARREN LEE DIVER, of Baltimore, Md., B. E. The Johns Hopkins University, 1948. Civil Engineering.
Design of a Rigid Frame Industrial Building of Three Aisles.

RICHARD JOSEPH EGGER, of Columbus, Ohio, B. S. University of Dayton, 1940. Electrical Engineering.
Radio Telemetering from Missiles.

JUDSON ADAMS HARMON, of San Gabriel, Calif., B. S. University of California, 1930. Sanitary Engineering.
Changes in Chemically Polluted Waters Percolating through Soil.

ALLAN KATZ, of Baltimore, Md., B. E. Georgia School of Technology, 1945. Industrial Engineering.
An Experiment in Rating for Time Study.

THOMAS LITCHFIELD KENNEDY, of Baltimore, Md., B. S. in C. E. Georgia School of Technology, 1927. Civil Engineering.
Lacing Bar in Steel Columns.

The Dynamic Vibration Absorber Applied to Impulse Turbine Blades.

CONRAD EPPING KOEHLER, of San Antonio, Tex., B. S. United States Military Academy, 1943. Mechanical Engineering.
Large Deformations Accompanied by Small Strains.

WILLIAM FRANKLIN LAHATTE, of Vicksburg, Miss., B. S. Mississippi State College, 1940. Electrical Engineering.
Characteristics of Anode Spots in High Current Arcs.

The Application of Industrial Engineering Techniques to Hospital Management.

MRUTUNJAYA MAHAPATRA, of Puri, India, C. E. Orissa School of Engineering, 1936. Sanitary Engineering.
Value of Lime as Water Disinfectant.

High Speed, Single-Transient Oscillography and its Application in the Rogowski Oscillograph.

EDWIN SIMON SCHMUCKER, JR., of Baltimore, Md., B. E. The Johns Hopkins University, 1948. Civil Engineering.
Sheet Pile Design Curves.

Natural Convection Heat Transfer to n-Pentane Around the Hyper-Critical Region.

The High Current Electric Arc.

FREDERICK ADAIR SMITH, JR., of Dallas, Tex., B. S. United States Military Academy, 1944. Mechanical Engineering.
Torsion of a Multiply Connected Section of a Bar.

JEFFREY GREENWOOD SMITH, of Atlanta, Ga., B. S. Virginia Military Institute, 1943. Mechanical Engineering.
Preliminary Study of the Cylindrical Vibration Damper.

Fatigue of Perforated Plates in Transverse Bending.

MORGAN EDGAR STEWART, of N. Sacramento, Calif., B. S. University of California, 1939. Sanitary Engineering.
Disposal of Septic Tank Effluent in Clay Soils.
MASTERS OF ENGINEERING
WITH TITLES OF ESSAYS

RALPH ROGER BERG, of Great Neck, N. Y., B. E. Yale University, 1944. Chemical Engineering.
The Relative Reactivities of Styrene and Butadiene in Reaction Mixtures Producing Popcorn Polymer.

THOMAS DAVID CAULDFIELD, of Gloster, Miss., B. S. Georgia School of Technology, 1938. Electrical Engineering.
A reaction Method for the Determination of the Absorption Coefficients of Plane Surfaces.

PAUL THOMAS DAVIS, of Baltimore, Md., B. S. Ch. E. Purdue University, 1944. Chemical Engineering.
A Study of the Adsorption of Benzene by Static and Dynamic Methods.

A Fourier Series Treatment of Linearized Axially-Symmetric Flow.

WAYNE ALVIN FEY, of Baltimore, Md., B. E. Yale University, 1947. Aeronautics.
The Problem of Sound in Low Turbulence Wind Tunnels.

NEIL HARTMAN FISHER, of Baltimore, Md., B. S. United States Naval Academy, 1940. Electrical Engineering.
Eddy Current Damping in Flat and Cylindrical Conducting Surfaces.

OSCAR EDWARD GRAY, Jr., of Bordentown, N. J., B. S. United States Naval Academy, 1940. Electrical Engineering.
Design Considerations of a Fast Sweep Oscillograph.

ROBERT ROBINSON GREEN, of Connersville, Ind., B. S. United States Naval Academy, 1939. Electrical Engineering.
High Intensity Short Duration Light Sources.

WIDMER CASE HANSEN, of Midwest, Wyo., B. S. United States Naval Academy, 1939. Electrical Engineering.
A Standard of High Frequency Power Factor.

CHARLES FRANCIS HELME, Jr., of Kingston, Pa., B. S. United States Naval Academy, 1942. Electrical Engineering.
Electromagnets for Use with 400-Cycle Aircraft Power Supplies.

Coagulation of Sewage Effluent with Waste Pickle Liquor and Copperas.

DAVE JOHNSTON, Jr., of Cockeysville, Md., B. S. United States Naval Academy, 1939. Electrical Engineering.
Correlation of Radiation Field Patterns with Circularly Symmetric Aperture Distributions.

WILBERT MITCHELL LAIR, of Baltimore, Md., B. S. Purdue University, 1945. Chemical Engineering.
Peroxide-Catalyzed Reaction of Tertiary Butyl Catechol in Benzene.

HARRY ELLIS MALOY, Jr., of Baltimore, Md., B. S. University of Pittsburgh, 1938. Aeronautics.
The Investigation of a Compressor System for a Supersonic Wind Tunnel.

PRESTON LIVELY MANSFIELD, of Munfordville, Ky., B. S. United States Naval Academy, 1941. Electrical Engineering.
Radio Frequency Telemetering.

FRED EARL MCENTIRE, Jr., of Lock Haven, Pa., B. S. United States Naval Academy, 1938. Electrical Engineering.
The Firing Characteristics of Certain Small Thyratrons.

HORACE PHILLIPS MCNEAL, of Norfolk, Va., B. S. United States Naval Academy, 1941. Electrical Engineering.
Subminiature Tubes—Prediction of Failure and Life Testing Under Normal and Overload Conditions.

JAMES ROBERT PAYNE, of Atlanta, Ga., B. S. United States Naval Academy, 1938. Electrical Engineering.
Automatic Control of the Terminal Voltage of 125 KVA Alternator.

IRWIN WOLLOCK, of Baltimore, Md., B. E. The Johns Hopkins University, 1943. Chemical Engineering.
Adsorption Studies of Linseed Oil Films.

MARK WILLIAM WOODS, of Lincoln, Nebr., B. S. United States Naval Academy, 1941. Electrical Engineering.
Environmental Testing of an Electric-Hydraulic Servomechanism.
DOCTORS OF ENGINEERING
WITH TITLES OF DISSERTATIONS

MOHAMED ALI ALI FARAG, of Alexandria, Egypt, B.S. Found 1st University, 1940; M.S. The Johns Hopkins University, 1948. Sanitary Engineering.

A Study of Hydraulic and Chemical Wash of Rapid Sand Filters.

HARRY LEVIN, of Baltimore, Md., B. E. The Johns Hopkins University, 1941. Chemical Engineering.

The Thermodynamics of Thermogalvanic Cells.

LEON JOSEPH L'HEUREUX, of Ottawa, Ont., Canada, B. A. University of Ottawa, 1940; B. S. University of Saskatchewan, 1944. Electrical Engineering.

The Effects of the Opening Velocity of Electrical Contacts on the Arc Energy for Inductive Loads.

WEYMOUTH NEILL MCDANIEL, of Dundalk, Md., B. E. The Johns Hopkins University, 1942. Mechanical Engineering.

An Investigation of the Convergent-Divergent Nozzle When Used in Coal Pulverization.

YOUNES AMIN OMAR, of Cairo, Egypt, B. S. Found 1st University, 1939; M. S. The Johns Hopkins University, 1948. Electrical Engineering.

The Characteristic Impedance of Rectangular Coaxial Transmission Lines.

JAMES HARRY POTTER, of Baltimore, Md., B. S. Columbia University, 1935; M. E. 1936. Mechanical Engineering.

Thermal Resistance of Metal Contacts.

CHARLES HARRY ROTHAUER, of Baltimore, Md., B. E. The Johns Hopkins University, 1940. Electrical Engineering.

Measurement of the Electrical Characteristics of Quartz Crystal Units by Use of a Bridge Tee Network.

WERNER RUEGGEBERG, of Baltimore, Md., B. E. The Johns Hopkins University, 1942. Electrical Engineering.

The Dielectric Properties of Some Thermosetting Materials under Rising Temperature.

ROLAND VIRGIL TIEDE, of Lawton, Okla., A. B. Oberlin College, 1933; B. S. University of California, 1941. Electrical Engineering.

Reactive Speed-Torque Control of Squirrel-Cage Induction Motors.

BACHELORS OF SCIENCE IN BUSINESS

PHILIP SMITH ANDREWS, of Hurlock, Md.
ALAN HAYMAKER ANTHONY, of Baltimore, Md.
HARRY EUGENE APPLEBY, of Baltimore, Md.
WILLIAM AUSTIN ARRINGTON, Jr., of Baltimore, Md.
MELVIN FRANKLIN BERNARDO, of Baltimore, Md.
GEORGE W. BLACK, Jr., of Baltimore, Md.
JOHN ALOYSIUS BRELIN, of Willson Park, N. Y.
CHARLES EDWIN BRISTOL, III, of Baltimore, Md.
NICHOLAS P. K. BROWN, of Baltimore, Md.
WILLIAM DAVID CLAYTON, Jr., of Baltimore, Md.
ROBERT LELAND COBB, of Baltimore, Md.
WILLIAM FALLIN DINSMORE, of Baltimore, Md.
LOUIS FREDERICK HERMAN DUBBERT, of Baltimore, Md.
NICHOLAS KOSMAS DOANNOU, of Baltimore, Md.
JOHN WILLIAM ERNEST, of Baltimore, Md.
PAUL CLAYTON FABRELANDER, of Baltimore, Md.
ARTHUR ROBERT FOLKOFF, of Baltimore, Md.
WILLIAM FRIEDLANDER, of Baltimore, Md.
JULIAN LEE GELWASSER, of Baltimore, Md.
DONALD SIDNEY GREENBERG, of Baltimore, Md.
ISADORE R. HASKIN, of Baltimore, Md.

EDMUND KEARSLY HARTLEY, of Baltimore, Md.
RICHARD LIVINGSTON HARVEY, Jr., of Baltimore, Md.
WILLIAM HENRY HAZLEMIURST, of Baltimore, Md.
CHRIS HENRY HEBBANK, of Hicksville, N. Y.
CARL EMANUEL HECHE, Jr., of Baltimore, Md.
GOEDON ANDRE HELLMANN, of New York, N. Y.
TOMAS HAYME, of Baltimore, Md.
EDWIN RONALD JACOBSON, of Baltimore, Md.
THOMAS DONALD JAMES, of Baltimore, Md.
RICHARD OSCAR KATZ, of Baltimore, Md.
JOHN ROBERT KENEALY, of Baltimore, Md.
HARRY WILLIAM KLAUSMEIER, of Baltimore, Md.
WARREN JOSEPH KWEDAR, of Baltimore, Md.
FREDERICK CHARLES LANG, Jr., of Richmond Hill, N. Y.
EDWARD BENJAMIN LAURITZ, of Baltimore, Md.
FRANCIS GREGORY MALONE, of Baltimore, Md.
FRANKLIN PIERCE MONTGOMERY, Jr., of Baltimore, Md.
CHARLES WILLIAM PEKAR, of Baltimore, Md.
ROBERT RUDOLPH PETRICK, of Belcamp, Md.
EFREM MORMOCH POTTS, of Baltimore, Md.
BYRON EDWARD RICE, Jr., of Baltimore, Md.
EARL LOUIS RICE, JR., of Baltimore, Md.
CHARLES CLIFFORD RUTTER, of Perry Point, Md.
STANLEY SEIDEN, of Highland Park, N. J.
CHARLES WILBUR SHAW, of Baltimore, Md.
LARRY MARTIN SILVERMAN, of Baltimore, Md.

THADDEUS WALLACE SWANK, of Baltimore, Md.
JULIUS HERBERT TAYLOR, of Baltimore, Md.
WILSON RAY TOLSON, of Baltimore, Md.
EMANUEL LOUIS WILDER, of Baltimore, Md.
RAYMOND ELWOOD YOUNG, of Reading, Pa.

GRADUATING WITH HONOR

WILLIAM FALLIN DINSMORE
RAYMOND ELWOOD YOUNG

BACHELORS OF SCIENCE

IRVING J. ABRAHOMOWITZ, of Baltimore, Md.
MARGARET ELLENOR ADAMS, of Baltimore, Md.
EDNA VIRGINIA ATKINSON, of Baltimore, Md.
CARL SAMUEL BASSETT, JR., of Baltimore, Md.
GRACE ARLENE BASTIAN, of Baltimore, Md.
ELLEN RIDER BLAKE, of Los Angeles, Calif.
MYRNA ELECTA BROCKET, of Hanover, Pa.
VERONICA LOUISE BUDACE, of Baltimore, Md.
LONNIE F. CAMING, of Baltimore, Md.
MARY ALICE CARE, of Baltimore, Md.
THEODORA CASTAGNA, of Baltimore, Md.
MARION LOUISE CHAMBERLIN, of Cuba, N. Y.
ANNA ELIZABETH CLARK, of Baltimore, Md.
RUTH SMILEY CLIFFORD, of Baltimore, Md.
EDWIN COHEN, of Baltimore, Md.
FLORENCE JEANETTE CONNO, of Towson, Md.
OSCEOLA HALSEY CABELL, of Baltimore, Md.
CLARA MAY CROCKETT, of Baltimore, Md.
ROBERT CURLAND, of Baltimore, Md.
ELIZABETH ELEANOR DAVIS, of Baltimore, Md.
ALTON CHARLES DONSBAEK, of San Antonio, Tex.
LUCILLE MILLER DUVALL, of Baltimore, Md.
MARY ELIZABETH EBERLE, of Baltimore, Md.
ALLAN PAUL EVANS, of Annapolis, Md.
MATILDA W. FALK, of Baltimore, Md.
EMANUEL FELDMAN, of Baltimore, Md.
JEANETTE HARIETTE FESSENDEN, of Edgerton, Wis.
WILLARD HALE FISHER, of Delmar, Del.
HANS FISHER FLEXNER, of Baltimore, Md.
DORIS ANNE FONNACI, of Baltimore, Md.
JOSEPH FRANKLIN FOWLER, of Timonium, Md.
ABRAHAM FOX, of Glen Burnie, Md.
G. GORDON GAENG, of Baltimore, Md.
DORA GOLDSBLATT, of Baltimore, Md.
MARIAN SPIKLOSER GORDON, of Baltimore, Md.
HUGH GRAHAM, of Baltimore, Md.
RALPH A. GREGORY, of Baltimore, Md.
ROBERT L. GRUNWALD, of Takoma Park, Md.
ROSALIND EDMONDS HINX, of Baltimore, Md.
LELLA KATHERINE HOLDEN, of Baltimore, Md.
MORGAN AUSTIN JONES, of Baltimore, Md.
JOYCE JACOBSON KAUFMAN, of Baltimore, Md.
EPHRAIM KESTENBAUM, of New York, N. Y.
MENASHIE KESTENBAUM, of New York, N. Y.
JEAN GIBBONS KILBOURNE, of Baltimore, Md.
JOHN GORDON KOCH, of Heverhill, N. H.
SUSIE ELIZABETH LITTLE, of Darlington, Md.
ROBERT CRAWFORD LLOYD, of Baltimore, Md.
GEORGE RIDGELY LUCKETT, of Annapolis, Md.
HENRY WILSON MAGLDT, of Baltimore, Md.
DONZELLA CLARA MILLER, of Baltimore, Md.
ETHYL GENT MILLER, of Baltimore, Md.
REDMOND KATHERINE MOLZ, of Baltimore, Md.
WILLIAM ROBERT MORRISON, of Baltimore, Md.
ARCHIBALD JAMES MURRAY, of Baltimore, Md.
JOHN RUPERT NEARY, of Hanover, Pa.
IRENE E. FEEBURGER ODOM, of Baltimore, Md.
* EARL CRANSTON PRICE, of Aberdeen, Md.
SHIZUKO ASAI PROCTOR, of Oney, N. Y.
GEORGE ROSENTHAL, of Washington, D. C.
CLEMINTINE THERESE SCHARR, of Baltimore, Md.
ALVIN LOUIS SCHREIBER, of Baltimore, Md.
ANNA FRANCES SHAW, of Baltimore, Md.
HERBERT HAROLD SILVERMAN, of Baltimore, Md.

* Died January 12, 1949.
Daniel Griffin Smith, of Baltimore, Md.
Rhoda Dorothy Sorge, of Baltimore, Md.
Jane Bartell Stiel, of Baltimore, Md.
Martha S. Long Szekely, of Baltimore, Md.
John Owen Thomas, of Baltimore, Md.

Hilda Olte Timmerman, of Baltimore, Md.
Charlotte Marie Wagner, of Baltimore, Md.
Hilda Watson, of Baltimore, Md.
Joyce Barker White, of Greenwich, Conn.
Robert James Ziegler, of Baltimore, Md.

GRADUATING WITH HONOR
Grace Arlene Bastian
Doris Anne Formaci
Abraham Fox

Redmond Kathleen Molz

LELIA KATHERINE HOLDEN
JOYCE JACOBSON KAUFMAN
GEORGE RIDGELY LUCKETT

BACHELORS OF SCIENCE IN NURSING

Mary Adams, of Jefferson, S. D.
Beulah Allman, of Alexander, N. C.
Jane Ginn Bailey, of Syracuse, N. Y.
Marjorie Jean Baker, of Ashland, Kan.
Dora Kinlaw Baxter, of Lunenburg, N. C.
Theresa Bell, of Greensboro, N. C.
Ruth Christine Bender, of Littitz, Penn.
HeLEN Whittridge Bruce, of Baltimore, Md.
Miriam Allen Buchaca, of Delmar, N. Y.
HeLEN Lois Burdon, of Houston, Tex.
Josephine Jeanne Bureau, of Lexington, Ky.
Barbara R. Burkholder, of Alpena, Mich.
Graycie Marie Cameron, of St. Petersburg, Fla.
Peggy Ann Case, of Spartanburg, S. C.
Kathleen M. Connolly, of New York, N. Y.
Dorothy Jane Darnell, of Rodeo, N. Mex.
Rebecca Little Faust, of Crawford, Ga.
Opal Virginia Gardner, of Hillsville, Va.
Marian Ruth Garvin, of Bethesda, Md.
Wanda Dorothy Ginter, of New Haven, Conn.
Jean Josephine Girtz, of Baltimore, Md.
Florence E. Goellot, of Sharon, Conn.
Sara Mae Harro, of Harrisburg, Pa.
Dorothy L. Hastings, of Waukon, Iowa
Wilda Charlene Howl, of Oklahoma City, Okla.
Mabel Blanche Ingraham, of Kingsport, Tenn.
Dessie B. Ingram, of Nolensville, Tenn.
Katharine Black Jackson, of Detroit, Mich.
Frances Benson Kahn, of Austin, Tex.
Madrea Jane Kalbaugh, of Cristobal, Canal Zone
Myrtion Love King, of Washington, D. C.
Catherine Francis Lauder, of Monmouth, Ill.
Annie Mae McDaniel, of Bennettsville, S. C.
Helen Margaret McDonald, of Leeper, Pa.
Nan McDowell, of Shelby, N. C.

Margaret Elizabeth Mein, of Recife, Brazil.
Helen M. Merrill, of Helena, Mont.
Avis White Moore, of Westfield, Mass.
Mary Jean Newman, of South Bend, Ind.
Marguerite Nichols, of Sumter, S. C.
Natalie R. Parker, of Portland, Ore.
Janice Ruth Perry, of Youngstown, Ohio
Rena Pitotti, of Glen White, W. Va.
Mercedes Pittman, of Birmingham, Ala.
Mary Hester Powell, of Warren, N. C.
Eleanor Elizabeth Presbrey, of Fall River, Mass.
Ruth Ann Preston, of Ithaca, N. Y.
Sarah May Reuss, of Towson, Md.
Ethel Marie Rosenfeld, of Baltimore, Md.
Bonnie Dale Rush, of El Paso, Tex.
Ruth Jay Samet, of Brooklyn, N. Y.
Nancy Byrd Shearer, of Washington, D. C.
Mary E. Sheriff, of Sierra Madre, Calif.
Joan Hope Shuchowsky, of Perth Amboy, N. J.
Katie Lee Snyder, of Pewee Valley, Ky.
Mary Short Spencer, of Wellington Springs, S. D.
Geneva Stanley, of Fairfax, S. C.
Caroline Derrick Stroup, of Rock Hill, S. C.
Margaret Virginia Teeter, of Taneytown, Md.
Monica Beth Thomson, of Binghamton, N. Y.
Alice Helen Townsend, of Westmont, N. J.
Jane Garrison Trolinger, of Baltimore, Md.
Amelia Wallace, of Florence, S. C.
Margie G. Watkins, of Chattanooga, Tenn.
Jean Dysart Wheaton, of Wildwood, N. J.
Mary Ellen Wiggin, of Dallas, Tex.
Elizabeth Wyckoff, of Chicago, Ill.
Evangelina M. Young, of Lyman, S. C.
Electra Sonia Yphantis, of Belmont, Mass.
MASTERS OF EDUCATION
WITH TITLES OF ESSAYS

Gerald William Brown, of Los Angeles, Calif., A.B. Santa Barbara State College, 1941.

Vivian Irene Cord, of Baltimore, Md., B.S. The Johns Hopkins University, 1946.


Edward Merton Fishel, of Monkton, Md., B.S. State Teachers College, Towson, Md., 1938.

Milton Thomas Goedeke, of Baltimore, Md., B.S. University of Maryland, 1941.

Joseph Elliott Green, Jr., of Baltimore, Md., A.B. The Johns Hopkins University, 1937.

Julius George Hlubb, of Baltimore, Md., A.B. Gettysburg College, 1929.

James M. Laing, of Baltimore, Md., B.S. State Teachers College, Towson, Md., 1946.

Ann Muncaster Rice, of Germantown, Md., A.B. Western Maryland College, 1944.

Gertrude Helen Svec, of Relay, Md., B.S. The Johns Hopkins University, 1937.

Vernon Sebastian Vavrina, of Pikesville, Md., B.S. The Johns Hopkins University, 1937.

George Russell Wackenhut, of Baltimore, Md., B.S. University of Hawaii, 1943.

DOCTORS OF EDUCATION
WITH TITLES OF DISSERTATIONS

Sidney Leon Celler, of Baltimore, Md., B.S. College of the City of New York, 1937; M.S., 1939.

A Descriptive Statistical Study of Discipline.

Rebekah R. Liehman, of Baltimore, Md., B.S. Virginia State Teachers College, 1929; M.Ed. University of Maryland, 1942.

Herbartian Methodology in American Education.


The Effectiveness of the Public Address System in the Teaching of Religious Information.

MASTERS OF SCIENCE IN HYGIENE
WITH TITLES OF THESSES

Mary Margaret Carey, of Mount Rainier, Md., B.A. Barnard College, 1938. Biochemistry.


The Reaction Kinetics of Vitamin A Decomposition.

Sankaranarayana Sundaraman, of Madras, India, B.Sc.Ag. Madras University, Coimbatore, 1941; L.T. Madras University, Madras, 1942. Parasitology.

Biometrical Studies on Intergradation in the Genitalia of Certain Populations of Culex pipiens and Culex quinquefasciatus in the United States.

Chung-Chang Tang, of Foochow, China, B.S. Fukien Christian University, 1929. Parasitology.

Sweet Potato Cultivation and Hookworm Disease in Fukien, South China.
DOCTORS OF SCIENCE IN HYGIENE
WITH TITLES OF DISSERTATIONS


An Investigation on the Synergistic Action of Piperonyl Butoxide with Pyrethrum.

CHARLES CLAYTON CROFT, of Washington, D.C., B.S. University of Maryland, 1936; M.S. 1937. Bacteriology.

Studies on the Quantitative Determination of Hemolytic Antibody.

WILLIAM KEYS LAWLER, U. S. Navy, B. S. Cornell University, 1933. Parasitology.

Immunological Studies of Antigens Extracted from Mosquitoes and Their Application in Taxonomy.

ROBERT MURDOCH LEWERT, of Scranton, Penn., B. S. University of Michigan, 1941; M. S. Lehigh University, 1943. Parasitology.

Studies on Exoerythrocytic Stages of Plasmodium gal- linacem in Tissue Culture and Subsequent Inoculation into Chickens.

WILLIAM DEXTER LINDQUIST, of Lewiston, Idaho, B. S. University of Idaho, 1940; M. S. 1942. Parasitology.

Some Abnormal Host Relationships of a Rat Nematode, Nippostrongylus muris.

DON WILFRED MICKS, of Rusk, Tex., B. S. North Texas State College, 1940; M. S. 1942. Parasitology.

Studies on Strains of Plasmodium elongatum with Special Reference to Factors Influencing Susceptibility and Transmission through the Mosquito.


Life History and Host-parasite Relations of Heterakis spumosa, a Nematode Parasite in the Colon of the Rat.

MARTHA KERFOOT WARD, of Blackstone, Va., B. A. Randolph-Macon Woman's College, 1937; M. A. University of Virginia, 1942. Bacteriology.

Studies on the Role of Iron in Toxicogenicity of the Types of Corynebacterium diphteriae, with Some Observations on Growth Requirements of These Organisms in a Synthetic Medium.

PAUL PETER WEINSTEIN, of Brooklyn, N. Y., B. A. Brooklyn College, 1941. Parasitology.

The Cultivation of the Free-living Stages of Parasitic Nematodes in the Absence of Living Bacteria.

JOHN ALFONSO YURCHESCO, of Bridgeport, Conn., B. A. Albion College, 1941. Bacteriology.

Studies on the Bacteriophage Typing of Salmonella.

MASTERS OF PUBLIC HEALTH

SALAH-ELDIN MOHAMED ATTIA, of Cairo, Egypt, M. B. B. Ch. Fouad 1st University, 1937.

JOHANNES HENRIK BAUER, of New York, N. Y., M. D. University of Upsala, 1915.

JOSEPH MICHAEL BISITOWISH, of New Orleans, La., B. S. Tulane University, 1940; M. D. 1943.

ROBERT MEREDITH BROWN, of St. Louis, Mo., B. S. in Chem. E. University of South Carolina, 1935.

CHARLES OLIN BRUCE, U. S. Army, A. B. University of Nebraska, 1929; M. D. 1934.

CARLOS LUIS GABRIEL CAMACHO, of Quito, Ecuador, M. D. Central University of Quito, 1945.

BYRON DAVID CASTEEL, U. S. Navy, A. B. University of Texas, 1935; M. D. Harvard University, 1941.

MOUCHING CHENG, of Nan Chang, Kiangsi, China, M. D. National Medical College of Shanghai, 1940.

YÜ-TU CHIANG, of Peiping, China, B. S. Yen Ching University, 1938; M. D. Peiping Union Medical College, 1939.

FREDESWINDA REYES DE LÉON, of Basig, Rizal, Republic of the Philippines, A. A. University of the Philippines, 1934; M. D. 1939.

GEORGE WILLIAMSON AUCHINVOLLE DICK, of Entebbe, Uganda, M. B. Ch. B. Edinburgh University, 1938; B. Sc. 1939.

THOMAS BENJAMIN DUNNE, of Charles Town, W. Va., A. B. Johns Hopkins University, 1939; M. D. University of Maryland, 1943.

ERIBERTO ECHEVIRIA, of Caracas, Venezuela, M. D., Central University of Venezuela, 1945.

HUGO ENRIQUEZ FREDDEN, of Santiago, Chile, M. D. University of Chile, 1930; C. P. H. 1944.

MARGARET JULIE KAPPEL FARLEY, of Baltimore, Md., B. A. Goucher College, 1925; M. D. Johns Hopkins University, 1929.

CHIHYI YEN FENG, of Tientsin, China, B. S., Nankai University, 1938; M. D. Peiping Union Medical College, 1942.
CHARLES RAYMOND FREEBLE, Jr., of Leetadale, Penn., B.S. University of Pittsburgh, 1943; M.D. 1945.

RODNEY ROBERT GELETSTEEN, U. S. Navy, B.A. Grinnell College, 1934; M. D. University of Iowa, 1938.

WILLIAM ALFRED HARRIS, of Indian Head, Md., B.S. Tufts College, 1939; M. D. Columbia University, 1943.

GRETHE BENEDICTE HARTMANN, of Copenhagen, Denmark, M.D. University of Copenhagen, 1937; Ph.D. 1941.

FREDERICK ABBOTT HEATH, of Blacksburg, Va., M.D. Hahnemann Medical College, 1929.

LEWIS ELLSWORTH HEGDECOCK, U. S. Navy, A.B. Iowa State Teachers College, 1927; M.D. University of Iowa, 1931.

ALAN DALE HOUSE, of New Paltz, N. Y., A.B. Indiana University, 1939; M.D. 1942.

MARTHA CHARLOTTE JOHNSON, of Baltimore, Md., R.N. Wesley Memorial Hospital, Chicago, 1928; B.S., University of Chicago, 1942.


OSCAR WILBUR KOCHITSKY, Jr., of Knoxville, Tenn., B.S. C.E. University of North Carolina, 1932.

DAYANKA KONCHADY, of Bondelpo, Mangalore, India, B.E. University of Madras, India, 1945; M.S. Harvard University, 1947.

ABRAHAM MORRIS LILLENFELD, of Baltimore, Md., M.D. University of Maryland, 1944.

AUGUSTO LOPEZ VIDAL, of La Paz, Bolivia, M.D., University of San Andres, La Paz, Bolivia, 1945.

ANTONIO ABEU LOZANO, of Manila, Republic of the Philippines, M.D. University of the Philippines, 1937; C.P.H. 1939.

JOAQUIM DE OLIVEIRA COSTA MALA, of Porto, Portugal, M.D. University of Porto, Portugal, 1945.

AMIN MONSEN, of Cairo, Egypt, M.B.B.Ch. Fouad 1st University, 1935; D.P.H. 1941; D.T.M. and H. 1942.

ROBERT ANDREWS MOUNT, U.S. Navy, M.D. Baylor University, 1938.

EDWARD COTHAM MULLINEX, of Johnson City, Tenn., A.B. University of Missouri, 1927; M.D. University of Tennessee, 1931.

SAIYID MUSLIM NAQVI, of Lucknow, India, M.B., B.S. University of Lucknow, India, 1933; D.P.H., London School of Hygiene and Tropical Medicine, 1939.

Fernando Orihuela, of Lima, Peru, M.D., Berlin University, 1940.

ELTON SMITH OSBORNE, Jr., U. S. Public Health Service, M.D., University of Georgia, 1937.

KISHORE CHANDRA PATNAIK, of Calcutta, India, M.B. B.S. Lucknow University, 1941; D.P.H., Calcutta University, 1943.

ADAM JOZEF RAPALSKI, U. S. Army, M.D. Syracuse University, 1938.

FRANK WALKER REYNOLDS, of Baltimore, Md., A.B. Colgate University, 1933; M.D. University of Rochester, 1937.

JORGE ROMÁN-PAVELLICH, of Santiago, Chile, M.D. University of Chile, 1938.

MANABU SASA, of Tokyo, Japan, M.D. University of Tokyo, 1940.

HELEN SCHNETZER, of Springfield, Mass., R. N. St. Vincent's Hospital School of Nursing, New York, 1930; B. S. Columbia University, 1938.

MILDRED ESTHER SCOTT, of Richmond, Va., B.S. University of Kansas, 1949; M.D. 1930.

ZERIN ANDREW SHAKHASHRI, of Beirut, Lebanon, B.A. American University of Beirut, 1931; M.S. 1934; M.D. 1938.

CHARLES RAYMOND SHARP, of Walla Walla, Wash., B.A. University of Oregon, 1931, M.D. 1935.

LEWIS CALVIN SHEFFELBERGER, U. S. Army, B.S. Westminster College, 1929; M.D. Jefferson Medical College, 1933.

YU-MING SHEN, of Canton, China, M.D. National Medical College of Shanghai, 1938.

TITO LOPES DA SILVA, of Sao Paulo, Brazil, M.D. University of Brazil, 1934.

ALFREDO SISON, of Dagucoy City, Pangasinan, Republic of the Philippines, M.D. University of the Philippines, 1941.

MARTHA LOUISE SMITH, of New York, A.B. Swarthmore College, 1937; M.D. University of Buffalo, 1942.


ALICE MAREEN SUNDBERG, of Baltimore, Md., B.A. Coe College, 1932; R.N. Peter Bent Brigham Hospital, Boston, Mass., 1938.


ISMAIL ALI TOPUZOLU, of Istanbul, Turkey, M.D. Istanbul University, 1941.

SEU-TAI TSOU, of Shanghai, China, M.D. St. Johns University, Shanghai, 1936.

MILTON TULLY, of Buffalo, N. Y., M.D. University of Buffalo, 1937.

RAFAEL URZÚA LIGERON, of Talca, Chile, M.D. University of Chile, 1940.

KARL GUSTAF HERLOG VATLING, of Stockholm, Sweden, Med. Dr. Lunds University, Sweden, 1946.

JOSÉ VALLE ANTELO, of La Paz, Bolivia, M.D. University of Chile, 1942.
DOCTORS OF PUBLIC HEALTH
WITH TITLES OF THESES

THOMAS McLAREN GALLOWAY, of Dollar, Scotland, M.B.
Ch. B. Edinburgh University, 1941; M. R. C. P. 1945;
D. P. H. University of London, 1947. Public Health
Administration.
Administration of the Maryland Medical Care
Programs.

FRED CARL KLUTH, of Cleveland, Ohio, A. B. Western Re-
serve University, 1934; M. D. 1938; M. P. H. Johns Hop-
kins University, 1940. Bacteriology.
Protective Antibodies in the Serum of Syphilitic
Persons.

HERMAN SIEMENS, of Edmonton, Alberta, Canada, B. Sc.,
University of Manitoba, 1930; M. Sc. University of Al-
berta, 1931; M. D. 1937; D. P. H. University of Toronto,
1941. Public Health Administration.
Mental Hygiene Aspects of Eating Behavior in the
Pre-school Child.

DOCTORS OF MEDICINE

STUART CHARLES ALEXANDER, of East Orange, N. J., Buck-
nell University; Stanford University; University of
Michigan.

KENNETH NELS ANDERSEN, of Missouri Valley, Ia., State
University of Iowa; University of Pennsylvania.

HELEN MAE ANDERSON, of Buffalo, N. Y., A. B. University
of Michigan, 1945.

ROBERT EARLE APPLEBY, of Norwalk, Conn., Indiana Uni-
versity; University of Michigan.

JEREMIAH ABRAHAM BARONESS, of Woodmere, N. Y., Hof-
stra College; Pennsylvania State College; Wayne Univer-
sity; University of Michigan.

RAY JACKSON BEASLEY, Jr., of Baltimore, Md., Boston
University; Washington University; University of Pennsyl-
vania.

ELSTON LEWIS BELKNAP, Jr., of Milwaukee, Wis., A. B.
Oberlin College, 1945.

DANIEL JOHN BIRMINGHAM, of Lynbrook, N. Y., John
Carroll University.

JOHN WILLIAM BOLTON, of Miami, Fla., University of
Florida; Hamilton College; Rhode Island State College;
Tufts College Medical School.

BENJAMIN BURROWS, of Jamaica, N. Y., Johns Hopkins
University.

VIRGINIA BRADY CALKINS, of Baltimore, Md., A. B. Univer-
sity of Michigan, 1945.

HOWARD LLOYD CARBAUGH, of Philadelphia, Penn., Pennsyl-
vania State College.

RICHARD RUSSELL CHAMBERLAIN, of Belmont, Mass., S. B.
Harvard University, 1944.

JAMES ROBERT COFFEY, of Amarillo, Tex., Amarillo College;
University of Chicago; University of Colorado.

HERBERT IRVING COHEN, of Rochester, N. Y., Harvard
University; Wayne University; University of Michigan.

ELLIOT LEW COLES, of Milwaukee, Wis., S. B. Muhlenberg
College, 1946.

WILLIAM WARNER COON, of Saginaw, Mich., Johns Hopkins
University.

ROBERT DAVIS COX, of South Bend, Ind., S. B. University
of Notre Dame, 1945.

WILLIAM SAUNDERS COXE, of Roanoke, Va., S. B. Hampden-
Sydney College, 1945.
Gordon Derek Currie, of Liverpool, England, M.B. and Ch. B. University of Liverpool.

Joseph Michael Dale, of New York, N.Y., New York University; University of Connecticut; Yale University.

Earl Hamilton Dearborn, of Manhattan, Kan., A.B. University of Kansas, 1938; A.M. 1940; Ph.D. University of Chicago, 1942.

Marjorie Jean Foote, of Endicott, N. Y., A.B. Goucher College, 1944.

William Frederick Fritz, of Oshkosh, Wis., S.B. Muhlenberg College, 1946.

Benjamin Howard Gaston, of Harrison, Ark., A.B. University of Louisville, 1946.

James Edward Hansen, of Green Bay, Wis., St. Norbert College; University of Wisconsin; Marquette University.

Edward Blair Headley, of Cincinnati, Ohio, University of Cincinnati; Pennsylvania State College.

Dorothy Hughes Herrneman, of Pelham, N. Y., A.B. Wellesley College, 1944.

Edward Winslow Hopkins, of Haddonfield, N. J., Union College.

Theda Raeburn Hopkins, of Port Henry, N. Y., A.B. Oberlin College, 1945.

Albert Burnham Huffer, of Toledo, Ohio, Oberlin College.


James Pershing Isaacs, of Struthers, Ohio, S.B. Ohio University, 1946.


John Arthur Jarrell, Jr., of Atlanta, Ga., A.B. The Johns Hopkins University, 1946.


Irwin Gene Kasle, of Toledo, Ohio, S.B. Yale University, 1948.


Ernest Floyd Latham, of San Diego, Calif., A.B. Stanford University, 1947.


Harry Joseph Lowe, of Nogales, Ariz., S.B. University of Arizona, 1944; M.S. 1945.

Harry Bellamy Martin, of Seattle, Wash., A.B. University of Washington, 1944.

Harry Moses McAllister, of Rochelle, Ga., A.B. University of Georgia, 1936.

James Stanley McGeehan, of Baltimore, Md., Pennsylvania State College; University of Mississippi.

George Edward McKinnon, of Riverside, Calif., University of Wyoming; University of Texas.


Emery Clyde Miller, Jr., of Hickory, N.C., A.B. University of North Carolina, 1945.

James Edward Mitchell, of Lynne, Conn., Downside College, England; University College, Cork.

Howard Edwin Morgan, of LeRoy, Ill., Illinois Wesleyan University.

Thomas Ogden Murphy, of Tacoma, Wash., S.B. Williams University, 1945.

Arthur Ryden Nelson, of Ashtabula, Ohio, Oberlin College.

Barbara Carol Newborg, of Durham, N.C., A.B. Swarthmore College, 1941.

James Corson Niederman, of Hamilton, Ohio, Kenyon College; The Johns Hopkins University.

Albert Henry Owens, Jr., of Staten Island, N.Y., The Johns Hopkins University; Harvard University; New York Medical College.

Duilio Dino Piroli, of Aliquippa, Penn., Boston University; Yale University.

Horace Mann Powell, Jr., of Indianapolis, Ind., S.B. Indiana University, 1946.

Robert Carlisle Rendtorff, of Pullman, Mich., A.B. University of Illinois, 1937; M.S., 1939; D.Sc. in Hyg. The Johns Hopkins University, 1944.


John Lazelle Sawyer, of Centerville, Ia., A.B. University of Rochester, 1946.

Ronald Stuart Seaton, of Baltimore, Md., College of Wooster; Trinity College.

Leonard Siegel, of Newport News, Va., A.B. University of Virginia, 1945.

Charles Matthew Sinn, Jr., of Seaside Hghts., N. J., Temple University; Princeton University.

Nathan Thal, of Bellingham, Wash., S.B. University of Washington, 1945.

George Irving Thomas, of Seattle, Wash., A.B. University of California, 1946.

Daniel James Torrance, Jr., of Seattle, Wash., S.B. University of Washington, 1944.


Masters of Arts
With Titles of Essays

Janet Clautice Abele, of Baltimore, Md., B.S. State Teachers College, Towson, Md., 1943. Education.


The Danaides in French Tragedy.


The Eternal Footman.


Alice Helm Bosley, of RuXTon, Md., B.S. The Johns Hopkins University, 1948. Romance Languages.

Frances Cary Bowen, of Baltimore, Md., B.S. The Johns Hopkins University, 1947. Writing, Speech and Drama.

Four Dramatizations on American Literary Classics for Children.

Philip Melchers Breitenrecher, of Chamblee, Ga., B.S. United States Military Academy, 1939. Psychology.

Catherine Georgia Buckel, of Baltimore, Md., B.S. Western Maryland College, 1948. Romance Languages.


On the Role of Serum Proteins in Antibody Formation.

Elis Cohen, of Baltimore, Md., B.S. University of Maryland, 1942. Biology.

Frances Elizabeth Connor, of Towson, Md., B.S. The Johns Hopkins University, 1947. Classics.


Elva Viola Ditman, of Baltimore, Md., A.B. Western Maryland College, 1924. Education.


Winfred Sophie Elson, of Baltimore, Md., A.B. Temple University, 1946. Psychology.

Jacob Epstein, of Baltimore, Md., B.S. The Johns Hopkins University, 1941. Education.

Douglas David Feaver, of Toronto, Ont., Canada, B.A. Toronto University, 1948. Classics.

Marion Hoover Ferguson, of Ellicott City, Md., A.B. Western Maryland College, 1927. Education.


The Use of Dramatic Technique in Mental Therapy.


The Front Street Theatre (from its beginnings to 1838).


Joseph Harris, of Baltimore, Md., B.S. University of Maryland, 1947. Physiological Chemistry.

Thomas Southworth Harrison, of Indianapolis, Ind., A.B. Amherst College, 1942. Chemistry.

Franklin and Marshall Academy: The Last Seventy-one Years of its History 1872-1943.


PAULINE HOSS, of Baltimore, Md., B.A. Goucher College, 1936. Education.


The Mechanism of Inhibition of Bioluminescence by Naphthoquinones.


The Dialogue of One.


MICHAEL LEWZOREK, of New York, N.Y., B.S. College of the City of New York, 1942. Psychology.

GERMAIN DE BRUCQ-LIEBMAN, of Brussels, Belgium. Romance Languages.

ROBERT BRUCE LLOYD, of Toledo, Ohio, A.B. Oberlin College, 1948. Classics.

JOAN LOYD, of St. Joseph, La., B.A. Louisiana State University, 1948. Romance Languages.

The Alliance of Clergy and People in Mediaeval Liège.


MARJORIE HARRIS MELVILLE, of Macon, Ga., B.A. Agnes Scott College, 1947. Chemistry.

CHARLES MARTIN MONNIES, of West Allis, Wis., B.S. Cornell University, 1938. Writing, Speech and Drama.
Two Plays: "Will" and "Judas."

THOMAS FRANCIS MOORE, of Dallas, Tex., B.S. Southern Methodist University, 1944. Chemistry.


ROBERT LANCELOT MYERS, of Stratford, Ont., Canada, B.A. University of Western Ontario, 1948. Romance Languages.

GEORGE MURRAY NAUSS, Jr., of Baltimore, Md., A.B. University of Maryland, 1948. Writing, Speech and Drama.

Nippin Farewell.

JOHN ALEXANDER PARKINS, of Martindale, Penn., B.A. Washington and Lee University, 1939. Chemistry.

THEODORE POWELL, of Baltimore, Md., B.A. Colgate University, 1948. Political Science.

The Arena Theatre.

JOHN JOSEPH PUGH, of Baltimore, Md., A.B. Loyola College, 1943. Writing, Speech and Drama.

An Introduction to Aesthetics.

JOHN OLIVER RICH, of Baltimore, Md., A.B. Rollins College, 1938. Education.

LOUIS DECIMUS RUBIN, Jr., of Richmond, Va., B.A. University of Richmond, 1946. Writing, Speech and Drama.
The Education of Quintus Kohn.

TURBIE HENRY SLAUGHTER, of Baltimore, Md., A.B. The Johns Hopkins University, 1940. Geology.

Shore Erosion in Tidewater Maryland.


RICHARD LASELL STAPLES, of Wilmington, Del., B.A. Colgate University, 1947. Geology.


WILLIAM EDGERTON THOMPSON, of Baltimore, Md., B.S. University of Alabama, 1941. Chemistry.

RICHARD PORTER THOMSEN, of Baltimore, Md., A.B. Yale University, 1934. Education.


SARAH PRISCILLA WEBSTER, of Pylesville, Md., B.F.A. Maryland Institute, 1946. Education.


GORDON WALLACE WILSON, of St. Helena, Calif., A.B. University of California, 1939. Writing, Speech and Drama.
The Holliday Street Theatre.

SAM SHEPHERD WOHL, of Baltimore, Md., B.A. University of Maryland, 1948. Writing, Speech and Drama.

"Life by Drowning" and other Stories.
DOCTORS OF PHILOSOPHY
WITH TITLES OF DISSERTATIONS

SAM LAZARUS AGRON, of Chicago, Ill., B.S. Northwestern University, 1941. Geology.
Structure and Petrology of the Peach Bottom Slate and Its Environment.

The Synthesis of Substituted Bis- (p-Aminophenyl) Ethylene Glycols, Aminostilbenes, Aminoindenes and Aminoindanes with a Preliminary Survey of some of their Physiological Properties.

IQBAL SINGH BHATIA, of Amritsar, India, B.S. Punjab University, 1944; M.S. 1945. Chemistry.
Dithizone as a Model for Antidote Studies.

Some 4-(4-Phenylazo-naphthyl) Semiacarbazides.

SCHUYLER CAMMANN, of Long Island, N.Y., A.B. Yale University, 1935; M.A. Harvard University, 1941. History.
The Early English Attempts to Open Tibet.

VERNON CHRISTIAN CARLSON, of Jacksonville Beach, Fla., A.B. Wittenberg College, 1928. Education.
The Chronological Development of the Platonic Education.

WILLIAM AUBREY COBBAN, of Polson, Mont., B.A. University of Montana, 1940. Geology.
Stratigraphy of the Colorado and Montana Groups (Upper Cretaceous) of the Central and Northern Great Plains with Descriptions of the Colorado Sechphites.

The Effect of Psychophysical Methods and Context on Pitch and Loudness Functions.

The Infrared Absorption of Water Vapor at 1.8 Microns.

Optical Studies of the Jet Flame of the V2-Missile in Flight.

ARDEL AZIZ ABDALLA EL GHOROURY, of Alexandria, Egypt, M.B. B.Ch. Found 1st University, 1941. Bacteriology.
Comparative Studies on Group "B" Streptococci of Human and Bovine Origin.

CHARLES PAINE FENIMORE, of Hayne de Grace, Md., B.A. University of Buffalo, 1942. Chemistry.
The Crystal Structure of Dibiphenylene-Ethylene.

Oxidation-Reduction Potentials of Thiol-Disulfide Systems.

SHOU-CHEENG FU, of Peiping, China, B.S. Catholic University of Peiping, 1941; M.S. 1944. Chemistry.
The Mechanism of the Halogenation of Pyrrole-Derivatives and the Structure of Some Pyrrolenines.

JACOB EUGENE GAIR, of Brooklyn, N.Y., A.B. University of Rochester, 1946. Geology.
Some Effects of Deformation in the Central Appalachians.

HELEN MEREDITH GARTH, of Ormond Beach, Fla., A.B. Vassar College, 1938; M.A. Bryn Mawr College, 1940. History.
St. Mary Magdalene in Mediaeval Literature.

JOHN WARREN GRAHAM, of Silver Spring, Md., A.B. The Johns Hopkins University, 1940. Geology.
The Stability and Significance of Magnetism in Sedimentary Rocks.

GEORGE L. GRASSMUCK, of Pasadena, Calif., A.B. University of California, 1941; M.A. 1943. Political Science.
Congressional Politics in Foreign Affairs, 1921-1941.

JEROME MAYO GREENBERG, of Baltimore, Md. Physics.
Considerations of Very Small Angle Atomic Scattering with Application to Scattering Losses in the Synchotron.

EDWARD ALDRICKS HAMILTON, of Jasper, Tex., B.S. Texas Agricultural and Mechanical College, 1939. Geology.
The Sedimentology of the Upper Jurassic Formations in the Vicinity of Escalante, Utah.

William Henry Hudson: Some Chapters toward a Biographical and Critical Study.

EDWARD C. HIGBEE, of Baltimore, Md., B.A. University of Wisconsin, 1932; M.A. 1939. Geography.
Guatemala's Agrarian Problem.

NORITAKA IKE, of Stanford, Calif., B.A. University of Washington, 1940. Political Science.
The Democratic Movement in Meiji Japan.

The Patent Grant.

MARIE LOUISE KOCH, of Baltimore, Md., B.S. The Johns Hopkins University, 1921; M.S. 1935. Bacteriology.
The Laboratory Diagnosis of Gonorrhea in Women.
The Ratio of the Specific Heats of Gases, \( e_p/e_r \), by a Method of Self-Sustained Oscillations.

RALPH WERNER KRONE, of New York, N. Y., B. S. Antioch College, 1942; M. S. University of Illinois, 1943. Physics.

Angular Distribution Measurements of Protons Yielding the Two Low Levels of \( \text{Li}^+ \).


SINDY THOMAS MATHEWS, of Arlington, Va., A. B. University of Richmond, 1936. History.

The Nicaragua Canal Controversy: The Struggle for an American-constructed and -controlled Transitway.


Factors Affecting the Rate and Recovery of Chemically Induced Mutations in Microorganisms.


RICHARD BRADBURY PALMER, of Baltimore, Md., A. B. Lehigh University, 1943. Geology.

Triassic Tectonics in Maryland.


The Infrared Absorption of \( \text{CO}_2 \) at 15 Microns.

JOHN DAVID REINHEIMER, of Wooster, Ohio, B. A. Kenyon College, 1942; M. A. The Johns Hopkins University, 1944. Chemistry.

The Study of Carbocyhydrizide and Thio carbocyhydrizides.


Theory of the Angular Distribution of the Nuclear Reaction \( \text{Li}(d, a)\alpha \).

ZOILA REYES-GALVÍS, of Bogotá, Columbia, A. B. West Virginia University, 1944; M. S. 1945. Chemistry.

Studies on the Structure of Hemoglobin.

HARRY STRoud ROBERTSON, of Tampa, Fla., B. S. University of North Carolina, 1942. Physics.

Oscillatory Phenomena in Spark Discharges.