

6-11-1971

1971 Commencement for Jefferson Medical College and College of Graduate Studies

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147th
COMMENCEMENT



*Jefferson Medical College
and
College of Graduate Studies
of
Thomas Jefferson University*

1824-1971

*Friday, June Eleventh
Nineteen Hundred and Seventy-One
Half Past Ten O'clock*

The Academy of Music

PROCESSIONAL Trumpet Voluntary JOHN STANLEY
Trumpet Voluntary in DPURCELL

THE NATIONAL ANTHEM

INVOCATIONRABBI MARTIN BERKOWITZ
Temple Adath Israel of The Main Line

CONVOCAATION
Opening RemarksPETER A. HERBUT, *President*

CONFERRAL OF DEGREES IN COURSEPRESIDENT HERBUT
Doctor of Philosophy
Presented byROBERT C. BALDRIDGE, *Dean*
College of Graduate Studies

Doctor of Medicine
Presented byWILLIAM F. KELLOW, *Dean and Vice President*
Jefferson Medical College

The Oath of HippocratesJOSEPH J. RUPP, *Associate Professor of Medicine,*
Jefferson Medical College

Master of Science
Presented byDEAN BALDRIDGE

CONFERRING OF HONORARY DEGREESPRESIDENT HERBUT

Doctor of Humane Letters

REVELLE W. BROWN, *Emeritus Trustee*
Presented by: WILLIAM W. BODINE, JR., *Chairman, Board of Trustees,* Thomas Jefferson University

Doctor of Laws

GEORGE JACOB WILLAUER, *Honorary Clinical Professor of Surgery*
Presented by: ANDREW J. RAMSAY, *Professor of Anatomy and Chairman of the Department,*
Jefferson Medical College

Doctor of Science

ARTHUR OSOL, *President,* Philadelphia College of Pharmacy and Science
Presented by: FREDERIC L. BALLARD, *Trustee,* Thomas Jefferson University

GEORGE W. CORNER, *American Philosophical Society*
Presented by: ROY G. HOLLY, *Professor of Obstetrics and Gynecology and Chairman of the*
Department, Jefferson Medical College

ADDRESSTHE HONORABLE MILTON J. SHAPP, *Governor of*
the Commonwealth of Pennsylvania

BENEDICTIONRABBI MARTIN BERKOWITZ

RECESSIONALPomp and CircumstanceELGAR

W. ERNEST WELLS, *Organist*

Marshal
ANDREW J. RAMSAY

Faculty Marshals
FRANCIS J. SWEENEY, JR. ROBERT P. GILBERT

SAMUEL S. CONLY, JR.

Student Marshals
EDWARD R. RUSSELL UWE KOEPKE

AWARDS and PRIZES

Awarded at Class Day Exercises on Thursday, June 10, 1971

The Christian R. and Mary F. Lindback Awards for Distinguished Teaching to JOHN J. DOWLING, B.S., M.D., Clinical Associate Professor of Orthopaedic Surgery and ARTHUR ALLEN, B.A., M.A., Ph.D., Associate Professor of Biochemistry.

The Charles LaBelle Prize for an outstanding candidate for the degree of Doctor of Philosophy. Award given by Mrs. LaBelle and family in memory of her husband Charles W. LaBelle, Ph.D., Assistant Professor of Preventive Medicine (Environmental Hygiene).

LEONARD MICHAEL GONASUN

The Albert Strickler Memorial Prize for the best essay on Cancer, to a Senior Student. Award given by Mrs. Albert Strickler.

DAVID WRIGHTSON JONES
With Honorable Mention of: AUGUSTIN JOSEPH SCHWARTZ, III

The Henry M. Phillips Prize for the graduate who is most worthy. Awarded upon the recommendation of the Professor of Medicine.

MICHAEL EDWARD STARRELS
With Honorable Mention of: ELIZABETH ANN LONDON

Practice Prize for the best essay on a subject pertaining to the Practice of Medicine. A Gold Medal, awarded by bequest of Dr. Francis W. Shain.

WILMA CHARLEAN LIGHT
With Honorable Mention of: DONALD ARTHUR BERGMAN

The Henry M. Phillips Prize for the graduate who is most worthy. Awarded upon the recommendation of the Professor of Surgery.

VIRGINIA BRODHEAD CLEMMER

Surgery Prize for the best essay on a subject pertaining to the Practice of Surgery. A Gold Medal, awarded by bequest of Dr. Francis W. Shain.

JEFFRY FREDRIC RUBIN and JAY NOGI

Clinical Surgery Prize for general excellence in Clinical Surgery. A Gold Medal, awarded in memory of Francis Torrens Stewart, Professor of Clinical Surgery, the Jefferson Medical College, 1910-1920.

JOHN CHARLES IACUZZO

Solomon Solis-Cohen Memorial Prize for the best essay in the field of Clinical Medicine by a member of the Senior Class. Award given by members of the family in memory of Professor of Clinical Medicine, Emeritus, S. Solis-Cohen.

FLOYD FABIEN SPECHLER
With Honorable Mention of: TERRENCE STEPHEN CARDEN, JR.

Gynecology Prize to a Senior Student for the best examination, thesis and general excellence in Gynecology. Award given by Mrs. Albert Strickler in memory of Professor of Obstetrics and Gynecology, Emeritus, Lewis C. Scheffey, M.D.

CAROLYN ANN CRAWFORD
With Honorable Mention of: JOHN ALEXANDER BELIS

Orthopaedic Surgery Prize for general excellence in Orthopaedic Surgery. Award given by Professor John J. Gartland, M.D.

JEFFRY FREDRIC RUBIN
With Honorable Mention of: JAY NOGI

Urology Prize for excellence in Urology during the Junior and Senior Years, including preparation of reports of in and out patients, examinations and final summary of work. Award given in memory of Dr. Theodore R. Fetter, The Nathan Lewis Hatfield Professor of Urology.

RONALD HISAO HIROKAWA

The Edward J. Moore Memorial Prize in Pediatrics to the Senior Student demonstrating the greatest aptitude in Pediatrics. Award given in memory of Edward J. Moore, M.D.

CAROLYN ANN CRAWFORD
With Honorable Mention of: WILLIAM HENRY TOPPER

The Henry Keller Mohler Memorial Prize to the Senior Student manifesting the greatest aptitude and interest in the general field of Therapeutics. Award given by Mr. Jesse Hubschman in memory of his wife, Natalie, to honor Henry Keller Mohler, M.D.

BRIAN DONNELLY
With Honorable Mention of: JACK MICHAEL GURALNIK

The Lowell Ashton Erf Prize to the Senior Student demonstrating seriousness of purpose, aptitude and ability in the field of Medicine. Award given by Mrs. Erf in memory of her husband, Lowell Ashton Erf, M.D.

THOMAS RICHARD BORTHWICK
With Honorable Mention of: JOHN LOUIS NOSHER

Psychiatry Prize to the Senior Student writing the best thesis on Psychiatry.

MYLES S. SCHNEIDER
With Honorable Mention of: RANDOLPH ALEXANDER READ

S. MacCuen Smith Memorial Prize to the member of the Senior Class judged most worthy of recognition for ability in the field of Otolaryngology. A Gold Medal given by Mrs. Stuart Lodge Bullivant in memory of her father.

STUART ALLEN SCHERR
With Honorable Mention of: RONALD HISAO HIROKAWA

The Carroll R. Mullen Memorial Prize in Ophthalmology to the Senior Student who has received the highest grade in Ophthalmology.

JOHN BENJAMIN FERGUSON, III
With Honorable Mention of: LIN-SEY NANCY WANG EDWARDS

Obstetrics and Gynecology Prize to a Senior Student for the best examination, thesis and general excellence in Obstetrics and Gynecology during the entire curriculum. Award given by Mrs. Sarah George Miller in honor of Professor of Obstetrics, Emeritus, John B. Montgomery, M.D.

ROBERT BRUCE WATERHOUSE
With Honorable Mention of: CAROLYN ANN CRAWFORD

The Leandro M. Tocantins Memorial Prize to the Senior Student manifesting the greatest aptitude and interest in the field of Hematology. Award given by Mr. and Mrs. Milton Hubschman.

MARGARET ALICE SHEPP

The Baldwin L. Keyes Prize in Psychiatry to the Senior Student considered most worthy by the Department of Psychiatry. Award given in honor of Professor of Psychiatry, Baldwin L. Keyes, M.D., Sc.D., Emeritus.

MYLES S. SCHNEIDER

William Potter Memorial Prize to that graduate attaining the highest general average in the final two years of the medical course. Award given from a bequest of Mrs. Adaline Potter Wear, offered to encourage excellence in the clinical branches of medicine.

THEODORE GEORGE PROBST
With Honorable Mention of: CAROLYN ANN CRAWFORD and AUGUSTIN JOSEPH SCHWARTZ, III

Alumni Prize for the highest cumulative academic record. A Medal awarded by the Alumni Association.

AUGUSTIN JOSEPH SCHWARTZ, III
With Honorable Mention of: THEODORE GEORGE PROBST

Louis B. Swisher, Jr. Memorial Prize to a Senior Student who has shown general excellence in the field of Anesthesiology. Awarded upon the recommendation of the Professor of Anesthesiology.

WILLIAM ROBERT HENRICK

The Lange Medical Publications Prizes to each of two outstanding Senior Students. A gift of four Lange Publications books.

THOMAS RICHARD BORTHWICK and VIRGINIA BRODHEAD CLEMMER

W. B. Saunders Company Prize to the student who has attained the highest scholastic average for the Senior Year. Medical Publications.

THEODORE GEORGE PROBST
With Honorable Mention of: STEPHEN RAY GRAY

The C. V. Mosby Company Prizes. Awarded to five outstanding graduates.

MARGARET ALICE SHEPP
J. STANLEY SMITH, JR.

HOWARD STEVEN ROBIN

JOSEPH JULIAN, JR.
BRIAN DONNELLY

The Richard W. Foster Prize to an outstanding student. Awarded for the purchase of books at the Rittenhouse Book Store.

JACK MICHAEL GURALNIK
With Honorable Mention of: JAMES EDWARD BARONE

Upjohn Achievement Award to be given to a Senior Medical Student who shows outstanding all-around achievement in Clinical proficiency.

CAROLYN ANN CRAWFORD
With Honorable Mention of: MARGARET ALICE SHEPP

DOCTOR OF HUMANE LETTERS—REVELLE W. BROWN

Mr. Brown's remarkable career began in 1900, at the age of seventeen. First a laborer on the Illinois Division of the Baltimore and Ohio Railroad, within months he had advanced to fireman and a few years later was promoted to locomotive engineer. He held this position for seven years and then accepted his first supervisory post, Road Foreman of Engines.

Throughout the years, Mr. Brown constantly sought self-improvement and professional proficiency by strict application to duty and on-the-job training. These efforts enabled him to move ahead rapidly in his chosen career. By 1930 he was the Vice President and General Manager of the Central Railroad Company of New Jersey. Advancing steadily, he moved to Vice President of Reading Company and the Central Railroad of New Jersey. He held these posts until 1941 when he was elected President of the Lehigh Valley Railroad. Then, in 1944, he returned to the Reading Company as President, where he remained until he retired from the presidency in September 1951, but he continues his interest in company affairs in his present capacity as a Director and as Chairman of the Executive Committee.

During the past twenty retirement years, he has served with distinction as a railroad consultant to the governments of Norway, Colombia (South America) and India. In addition to the Reading Company, he is serving as Director, Chairman or Trustee of many organizations including the John Wanamaker Estate, and the Philadelphia Savings Fund Society. He has contributed his leadership and personal dedication, with great success, to many civic and philanthropic enterprises. He was an early Campaign Chairman of the Community Chest and, following its reorganization into the United Fund, was one of its early presidents. He has been a Life Trustee of the Jefferson Medical College of Philadelphia starting in 1952, and is now Emeritus Trustee of Thomas Jefferson University. He continues, also, as a Trustee of the Stephen Girard Estate, as Chairman of the Youth Study Center (of Philadelphia), as Chairman of the McKee Scholarship Committee, and pursues vigorously his lifelong activity in youth work through his affiliation with the Philadelphia Council of the Boy Scouts of America, and other organizations.

Mr. Brown left Carlyle High School, Illinois, when he was in the 11th grade. Fifty years later, he returned to receive his high school diploma with the Class of 1952. But before this, he was the recipient of the honorary degrees of Doctor of Laws from University of Pennsylvania, Doctor of Laws from Dickinson College, and Doctor of Letters from Ursinus College.

In 1959, he was chosen as one of the Fifty Philadelphians who, during the past half century, contributed most toward the growth, welfare and prosperity of the entire Community.

DOCTOR OF LAWS—GEORGE JACOB WILLAUER

Born in Stockertown, Pennsylvania, on September 11, 1896, Dr. Willauer received the B.S. degree from Franklin and Marshall in 1917. After serving two years as an officer in the United States Army he entered Jefferson Medical College, receiving the M.D. degree in 1923. His internship experience and his deep interest in thoracic surgery led to post-doctoral study abroad under Doctors Ferdinand Sauerbrunn in Munich and Wolfgang Denk in Vienna. Upon returning in 1926 and while continuing studies at the Daniel Baugh Institute of Anatomy he was appointed to the faculty of Jefferson Medical College, where he advanced rapidly to Clinical Professor of Surgery.

Founder of the American Board of Thoracic Surgery, Dr. Willauer holds certification also by the American Board of Surgery. His hospital appointments have included: Director of Surgery, President of the Medical Staff, and Director of the Department of Anesthesia at Methodist Hospital; Director of Surgery at Eagleville Sanatorium, Chief of Clinic, Surgeon, and Director of the Division of Anesthesia at Jefferson Medical College Hospital; and Assistant Surgeon at Roxborough Memorial Hospital and at Bryn Mawr Hospital.

Dr. Willauer has introduced many new surgical procedures, especially notable are those for the treatment of pulmonary tuberculosis and massive trauma to the thorax. He has devised new anesthesia procedures, he organized the first varicose vein clinic in eastern United States, and performed the first successful pneumonectomy, with patient survival, in eastern Pennsylvania.

His skill and professional stature early attracted to Jefferson Medical College an unusual number of young physicians for residency training in thoracic and general surgery. In admiration and in gratitude his former students commissioned the painting of his portrait which now hangs amid those of other eminent physicians and medical scientists in Jefferson's historic portrait collection.

The major learned medical organizations, and local and state assemblies, have benefited by his activities and counsel, and by his leadership. Among the many presidencies and chairmanships formerly held by Dr. Willauer are those of the Philadelphia Academy of Surgery, the J. Aitken Meigs Medical Association, and the Pennsylvania Association for Thoracic Surgery. He is also a Past-President of America's largest living medical Alumni body, that of Jefferson Medical College. Currently he serves with distinction as Honorary Clinical Professor of Surgery, as Chairman of Thomas Jefferson University Founders Association, and as an Alumnus Member of the Board of Trustees.

DOCTOR OF SCIENCE—ARTHUR OSOL

Born in Riga, Latvia, December 1, 1905, Dr. Osol came to Philadelphia in 1906, receiving his education at the Philadelphia College of Pharmacy and Science (B.Sc. and M.S. degrees) and at the University of Pennsylvania (M.S. and Doctor of Philosophy degrees). He also completed post-graduate studies at New York University, University of Pennsylvania, and Oak Ridge Institute of Nuclear Studies. In 1964, Eastern Baptist College conferred on him the honorary degree of Doctor of Laws. His professional career started as an Assistant in Chemistry at Philadelphia College of Pharmacy and Science in 1928, with successive promotions to Professor of Chemistry, Director of the Department of Chemistry, Dean of Science and finally to President of the College of Pharmacy and Science, the challenging post he continues to hold with great distinction.

As president, his *Program for Progress* has resulted in an extensive building program and in many academic advances at his College. Dr. Osol's principal research interests are in the development of laboratory procedures for testing purity of drugs, and while chairman of a *United States Pharmacopeia* chemical subcommittee, such methods were developed for nearly 1,000 drugs included in the Pharmacopeia. He did collaborative research, also, for the League of Nations Health Committee on methods for testing opium and coca. During World War II he was a member of the Science Advisory Committee of the Federal Smaller War Plants Corporation. After the war he was Chief of the Chemical Branch of the Philadelphia Civil Defense Council, and organized a chemical training program for chemists assigned to civil defense in the Philadelphia area.

Dr. Osol has published over 200 scientific papers and written or edited 20 books, is Editor-in-Chief of the *United States Dispensatory*, Chairman of the Editorial Board of Blakiston-McGraw-Hill Medical Dictionaries; and Chairman of the Editorial Board of *Remington's Pharmaceutical Sciences*.

Dr. Osol is officer, fellow or member of many organizations and honorary societies. He is President of the West Philadelphia Corporation and a Director of the University City Science Center and of the Philadelphia Science Council. He has served, also, as President of the Philadelphia Chapter of the American Pharmaceutical Association, Chairman of the Philadelphia Section of the American Chemical Society and of the Philadelphia Section of the Electrochemical Society. Among his civic activities he is a Trustee of International House, a Director of the Philadelphia Rotary Club and, also, of the Philadelphia Tuberculosis Association.

DOCTOR OF SCIENCE—GEORGE WASHINGTON CORNER

Born December 12, 1889, Dr. Corner was educated at Johns Hopkins University (A.B. 1909, M.D., 1913). Following junior faculty positions at the Hopkins and University of California he was appointed Professor of Anatomy at the University of Rochester in 1923. In 1940 he was called to Baltimore as Director of the Department of Embryology of the Carnegie Institution of Washington, and then in 1956 to the Rockefeller Institute, New York, as Medical Historian. Four years later he assumed his present post, Editor and Executive Officer of the American Philosophical Society, in Philadelphia, America's oldest and highest ranking learned organization.

Dr. Corner's classic embryological, anatomical and physiological studies on mammalian reproductive cycles, including primates, led to the discovery of the corpus luteum hormone, progesterone. For these signal contributions he has been called the father of modern reproductive biology. His scientific leadership has stimulated and has sharply accelerated the advances in biologic sciences experienced in recent years. Few Americans have developed the astonishing facility to achieve the mastery over the several areas of scholarly activity that has characterized Dr. Corner's career. In the humanities his contributions to the history of medicine, started nearly fifty-seven years ago, include several books, numerous published articles and essays, biographies, and his autobiography, *Anatomist at Large*.

Dr. Corner's remarkable achievements and his scholarly pursuits have won cherished honors and recognitions at home and abroad. He has been awarded honorary degrees from the Catholic University in Chile, University of Rochester, Boston University, University of Chicago, Tulane University, Temple University, Woman's Medical College of Pennsylvania, Oxford University, and the University of Pennsylvania.

He has held numerous honorary, visiting, and research professorships and lectureships here and in England. He has received the Squibb Award of the Society for the Study of Internal Secretions, the Presidential Certificate of Merit, the Passano Foundation Award, and is an Honorary Fellow of Balliol College, Oxford and, also, of the Royal Society of Edinburgh and the Royal College of Obstetrics and Gynecology of London. A Fellow of the International Institute of Embryology he holds membership, also, in the Royal Society of London, American Association of Anatomists (president 1946-48), Society for Experimental Biology and Medicine, American Philosophical Society, National Academy of Sciences, Anatomical Society of Great Britain (hon.), American Association of the History of Medicine, Phi Beta Kappa, Sigma Xi, and many others. He serves as foreign correspondent for numerous American learned societies, as well.

Dr. Corner has written fourteen books and has contributed to many others. He has published over 200 articles on reproductive biology, embryology, anatomy, endocrine system, history of Medicine and of Anatomy, biography (including an autobiography), on science and learned scientific and philosophical organizations.

THE ACADEMIC COSTUME

The wearing of academic dress dates back to the early days of the oldest universities in the world. In the American Council on Education's book entitled "American Universities and Colleges" it is suggested that "gowns may have been counted necessary for warmth in the unheated buildings frequented by medieval scholars. Hoods seem to have served to cover the tonsured head . . ."

Throughout the years European universities have continued to show great diversity in their academic dress. American universities, on the other hand, when they decided to adopt academic dress about fifty years ago, immediately established a code of regulations which today is followed by almost all American institutions. The establishment of this code has made it possible to distinguish the Bachelors, Masters, and Doctors and at the same time recognize the university which has given them the degree.

The Bachelor's gown has pointed sleeves and is worn closed. The Master's gown has oblong sleeves, open at the wrist. The rear part of its oblong shape is square cut and the front part has an arc cut away, and is worn open or closed. The Doctor's gown has bell-shaped sleeves. It is worn opened or closed. Cotton poplin or similar material is used for the Bachelor's and Master's degrees, and rayon or silk ribbed material is used for the Doctor's degree.

The hoods vary in length: 48 inches for the Doctor's degree, 42 inches for the Master's, and 36 inches for the Bachelor's. All hoods are lined in silk in the academic color or colors of the institution conferring the degree. If the institution has more than one color, the colors are shown in divisions using chevrons. The binding or edge of the hood is usually made of velvet in the color designating the subject in which the degree was granted.

Black mortarboards are worn for all degrees.

Some of the colors in the bindings of the hoods are:

white	Arts and Letters	olive green	Pharmacy
lilac	Dentistry	dark blue	Philosophy
light blue	Education	salmon pink	Public Health
green	Medicine	golden yellow	Science
apricot	Nursing		

The colors of the linings of the hoods for some Philadelphia medical institutions are:

red and blue	University of Pennsylvania	blue and gold	Hahnemann Medical College
blue and white	Philadelphia College of Pharmacy and Science	silver gray and scarlet	The Medical College of Pennsylvania
black and blue	Jefferson Medical College	white and cherry	Temple University

CANDIDATES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

- BARBARA FREDERICK FORBES (Anatomy) Philadelphia, Pa.
Thesis: "Projections of the Insular and Opercular cortex of the Squirrel Monkey, *Saimiri sciureus*, with Special Reference to the Descending Auditory System."
- JOHN MARK HEFTON (Anatomy) Wallingford, Pa.
Thesis: "The Purification of Two 7S Subfractions of Anti-rat Kidney Serum and the Analysis of their Teratogenic Characteristics."
- LORRAINE JANE HAEFFNER (Biochemistry) New York, N. Y.
Thesis: "Pancreatic Deoxyribonuclease and the Modification of Tryptophan Residues in the Enzyme."
- YU CHEN LI LIN (Biochemistry) Philadelphia, Pa.
Thesis: "A Study on the Formation and the Decarboxylation of Cysteine Sulfinic Acid in Mammalian Liver."
- ROBERT DANIEL SMYTH (Biochemistry) Ambler, Pa.
Thesis: "Investigations of the Association of Synthetic Polypeptides with Ribonucleic Acid of Immunocompetent Tissues."
- OWEN STUART WEISLOW (Microbiology) Philadelphia, Pa.
Thesis: "The Effect of Hyperbaric Oxygen on the Interaction between *Pseudomonas aeruginosa* and Mouse Peritoneal Exudate Cells."
- LEONARD MICHAEL GONASUN (Pharmacology) Flushing, N. Y.
Thesis: "Mouse Liver Microsomal Mixed-function Oxidase and Benzene Metabolism."
- ALLEN ROBERT GORDON (Physiology) Lincolnwood, Ill.
Thesis: "Length-tension, Force-velocity and Active-state Characteristics of Smooth Muscle."

CANDIDATES FOR THE DEGREE OF DOCTOR OF MEDICINE

- RICHARD WILLIAM ALTREUTER Fair Haven, N. J.
WARREN APPLEMAN Neponsit, N. Y.
ALVAN WILLIAMS ATKINSON Medford Lakes, N. J.
RICHARD WAYNE BAGGE Collingswood, N. J.
CHRISTOPHER KIM BALKANY Harrisburg, Pa.
MARC P. BANNER Philadelphia, Pa.
JAMES EDWARD BARONE Weirton, W. Va.
ALEXANDER THOMAS BASKOUS Schenectady, N. Y.
GARY LEE BECKER Allentown, Pa.
JOHN ALEXANDER BELIS Smoke Run, Pa.
DONALD ARTHUR BERGMAN Elberon, N. J.
R. ANTHONY BESCHER Pittsburgh, Pa.
MICHAEL JAY BLECKER Bayonne, N. J.
JOHN WILLIAM BLOOM St. Joseph, Mo.
MICHAEL ZANGWILL BLUMBERG Wyncote, Pa.
GREGORY PETER BORKOWSKI Jenkintown, Pa.
THOMAS RICHARD BORTHWICK Shavertown, Pa.
LOUIS JOHN BORUCKI Moorestown, N. J.
BYRON S. BRAID Philadelphia, Pa.
THOMAS ALBERT BRASITUS Milford, Conn.
ARTHUR EDWARD BROWN Trenton, N. J.
SYLVAN BROWN Philadelphia, Pa.
GERTRUDE BARNES BRUNDAGE West Caldwell, N. J.
THOMAS MICHAEL BRYAN Williamsport, Pa.
GARY KENNETH BUFFINGTON Punxsutawney, Pa.
DANIEL JOSEPH CALLAHAN Orelan, Pa.
PETER MICHAEL CARAVELLO Philadelphia, Pa.
TERRENCE STEPHEN CARDEN, JR. Scranton, Pa.
FLOYD MCKINLEY CASADAY, III Indiana, Pa.
DELVYN CAEDREN CASE, JR. Newington, Conn.
ROBERT EVAN CHANDLEE Pittsburgh, Pa.
LAWRENCE JOSEPH CHASE Yeadon, Pa.
MILAN DANIEL CHEPKO Verona, Pa.
WILLIAM LEWIS CHOLLAK Edwardsville, Pa.
CORA LE ETHEL CHRISTIAN St. Thomas, Virgin Islands
RICHARD IRVING CLEMMER, JR. Glenmoore, Pa.
VIRGINIA BRODHEAD CLEMMER Swarthmore, Pa.
DAVID R. COOPER Westbury, N. Y.
MARY KING CRADDOCK New Orleans, La.
HARRY RALPH CRAMER, JR. Chambersburg, Pa.
CAROLYN ANN CRAWFORD Philadelphia, Pa.
DAVID MARK DANOFF Bayside, N. Y.
ROBERT DAVIDSON Philadelphia, Pa.
WILLIAM CARROW DAVISON Haddonfield, N. J.
GEORGE WILLIAM DENNISH, III Bordentown, N. J.
- JUDITH RHODA DERASSE Easton, Pa.
THADDEUS JEFFREY DMOCHOWSKI Riverton, N. J.
CAROL ANNE DOLINSKAS Maplewood, N. J.
BRIAN DONNELLY Rutherford, N. J.
JAMES RICHARD DOOLEY Point Pleasant Beach, N. J.
HARRY A. DOYLE, JR. Newtown, Pa.
SCOTT SMITH DUFFY Minersville, Pa.
JOAN B. ECCLESTON Bryn Mawr, Pa.
LIN-SEY NANCY WANG EDWARDS Philadelphia, Pa.
MARY LOU EVITTS Lebanon, Pa.
EDWIN PAUL EWING, JR. Beaver, Pa.
ROBERT BARCLAY FALK, JR. Lancaster, Pa.
HENRY MORTON FEDER, JR. York, Pa.
WILLIAM FRANCIS FELL, JR. Merchantville, N. J.
JOHN BENJAMIN FERGUSON, III Meadowbrook, Pa.
PAUL MARTIN FERNHOFF Ridgefield, N. J.
THEODORE WALKER FETTER Villanova, Pa.
BRUCE MARC FISHBANE East Meadow, N. Y.
THOMAS WILLIAM FISS, JR. Newtown Square, Pa.
ERVIN SAPHIR FLEISHMAN Huntingdon Valley, Pa.
BRUCE ALAN FORREST Paramus, N. J.
GEORGE RICHARD FREELAND Hatboro, Pa.
STEPHEN SANDER FROST Philadelphia, Pa.
FRANCISCO J. GARCIA-TORRES Hato Rey, Puerto Rico
MICHAEL A. GEHA Johnstown, Pa.
ARTHUR HOWARD GLASER Ardmore, Pa.
PHILLIP GLASS Margate, N. J.
ROBERT WHITNEY GOLDSTEIN Philadelphia, Pa.
WALTER FRANK GOODWILLIE Narberth, Pa.
ERIC PITMAN GORMALLY Wallingford, Pa.
DANIEL BENNETT GOULD Clifton, N. J.
STEPHEN RAY GRAY Bayside, N. Y.
RONALD DAVID GROSSMAN Mt. Carmel, Pa.
JACK MICHAEL GURALNIK Broomall, Pa.
LAWRENCE JOSEPH GUZZARDI Philadelphia, Pa.
WILLIAM CRAIG HAMILTON Philadelphia, Pa.
ALVIN GORDON HELLER Upper Darby, Pa.
ROBERT LEWIS HELLMAN Trenton, N. J.
DAVID HUBER HENNESSEY Bryn Mawr, Pa.
WILLIAM ROBERT HENRICK Philadelphia, Pa.
RONALD HISAO HIROKAWA North Wales, Pa.
RONALD ALAN HOFFMAN West Orange, N. J.
DAVID JONAS HOLZSAGER Great Neck, N. Y.
JOHN CHARLES IACUZZO Paterson, N. J.
ROBERT DOUGLAS JAMBRO St. Marys, Pa.

CANDIDATES FOR THE DEGREE OF DOCTOR OF MEDICINE

RUSSELL GRAYBILL JOHNSTON Sunbury, Pa.	RANDOLPH ALEXANDER READ Clifton Heights, Pa.
DAVID WRIGHTSON JONES Gettysburg, Pa.	FRANK RALPH REALE Belle Mead, N. J.
JEROME WILLIAM JORDAN Scranton, Pa.	DENNIS STONE RIFF Bala-Cynwyd, Pa.
JOSEPH JULIAN, JR. Temple, Pa.	WILLIAM STEWART RITTER Allentown, Pa.
MILTON PAUL KALE Roslyn, Pa.	HOWARD STEVEN ROBIN Philadelphia, Pa.
JOSEPH CHARLES KAMBE Philadelphia, Pa.	RONALD JAY ROSENBERG Philadelphia, Pa.
RICHARD RODMAN KEENE Ventnor, N. J.	EDWARD ROSOF Flushing, N. Y.
BARRY ROY KLEIN Philadelphia, Pa.	JEFFREY FREDRIC RUBIN Bala-Cynwyd, Pa.
GERALD MARK KLEIN Philadelphia, Pa.	EDWARD BERNARD RUBY Atlantic City, N. J.
STEVEN WILLIAM KLINMAN Philadelphia, Pa.	GREGORY JOSEPH SALKO Carbondale, Pa.
LOWELL EDMUND KOBRIN Reading, Pa.	HARVEY FRANKLIN SASKEN Bronx, N. Y.
ANDREW JOHN KONTRICK Erie, Pa.	STUART ALLEN SCHERR Pittsburgh, Pa.
JOSEPH WALTER KOZIELSKI Philadelphia, Pa.	MYLES S. SCHNEIDER Brooklyn, N. Y.
EDWARD LAWRENCE LANGAN, III Philadelphia, Pa.	AUGUSTIN JOSEPH SCHWARTZ, III Philadelphia, Pa.
MICHAEL JOHN LECHMAN Latrobe, Pa.	RICHARD PAUL SCHWIMMER Garfield, N. J.
CYNTHIA DOLORES LEHR Brooklyn, N. Y.	ARTHUR MAXWELL SEGAL Cynwyd, Pa.
WILMA CHARLEAN LIGHT Lansdowne, Pa.	JOSEPH LOUIS SELTZER South Orange, N. J.
ANTHONY CHARLES LOMBARDI Wilmington, Del.	MARGARET ALICE SHEPP Trenton, N. J.
ELIZABETH ANN LONDON Miami Beach, Fla.	PAUL JASON SILBERT Pompton Lakes, N. J.
CLIFFORD WARREN LYND, JR. Willow Grove, Pa.	STEPHEN CHAITT SILVER Harrisburg, Pa.
JAMES CALVIN MAAS Susquehanna, Pa.	ARTHUR KENLIN SMITH Chester, Pa.
PHILIP ARTHUR MACY, III Philadelphia, Pa.	J. STANLEY SMITH, JR. Harrisburg, Pa.
SHELDON ROBERT MANDEL Cheltenham, Pa.	ROBERT CHARLES SNYDER East Greenville, Pa.
STEPHEN HAROLD MARGOLIS Philadelphia, Pa.	DANIEL GREW SOMMER Cornwall, N. Y.
MICHAEL CHARLES MARGULIES Philadelphia, Pa.	BRENT WOOD SPEARS Riegelsville, Pa.
FRANCIS XAVIER MCBREARTY Philadelphia, Pa.	FLOYD FABIEN SPECHLER Cherry Hill, N. J.
JAMES GEORGE MCBRIDE Phillipsburg, N. J.	G. THOMAS SPIGEL Berkeley Heights, N. J.
TOM SPERRING MEBANE, III State College, Pa.	MICHAEL EDWARD STARRELS Philadelphia, Pa.
SUSAN MARIE MONK York, Pa.	TERENCE WEAVER STARZ Pittsburgh, Pa.
JOHN F. MOTLEY Philadelphia, Pa.	MERRIL STOCK Upper Darby, Pa.
THOMAS FRANCIS MULLINS, III Worcester, Mass.	ALAN LEE SUMMERS Philadelphia, Pa.
JAMES JEFFREY NOCON Philadelphia, Pa.	ROBERT LOUIS SUSSMAN Camp Hill, Pa.
JAY NOGI Scranton, Pa.	BARBARA LEA TENNEY Osterville, Mass.
JAMES PATRICK NOONE Scranton, Pa.	JULIE ELLEN KELTER TIMINS Brooklyn, N. Y.
JOHN LOUIS NOSHER South Orange, N. J.	ARTHUR STEVEN TISCHLER Philadelphia, Pa.
NANCY KATHLEEN O'CONNOR Philadelphia, Pa.	WILLIAM HENRY TOPPER Fredericktown, Pa.
TODD BUSSE ORVALD Wyncote, Pa.	JACOB TRACHTENBERG Elmhurst, N. Y.
BARRY HOWARD PENCHANSKY Bayonne, N. J.	TIMOTHY EDWARD URBANSKI Abington, Pa.
ROBERT ARTHUR PLACE Philadelphia, Pa.	JAMES OLAF VANBAVEL Wyckoff, N. J.
PHILIP ABRAHAM POMERANTZ Philadelphia, Pa.	MARK BENJAMIN VIZER Wynnewood, Pa.
MARK ALAN POSNER Cherry Hill, N. J.	ROBERT BRUCE WATERHOUSE Philadelphia, Pa.
THEODORE GEORGE PROBST Fair Lawn, N. J.	DAVID JOEL WEBER Fair Lawn, N. J.
WILBUR MICHAEL PRYOR Denver, Colo.	JEFFREY CHARLES WEISS Philadelphia, Pa.
JEFFREY STEVEN RAKOFF Bala-Cynwyd, Pa.	NORMAN EDWARD WILSON West Newton, Mass.
WILLIAM BUCKLEY RATCHFORD Philadelphia, Pa.	LEWIS EDWARD WINANS West Wyoming, Pa.
PAUL ANTHONY RAYMOND Gallitzin, Pa.	GEORGE SAMUEL WINEBURGH Wheaton, Md.
JOHN HARLESTON READ Gladwyne, Pa.	HARVEY DONALD ZELIGMAN Huntingdon, Pa.

CANDIDATE FOR THE DEGREE OF MASTER OF SCIENCE

PAUL STEPHEN FREEDBERG (Physiology) Salem, Mass.	
Thesis: "Immediate Cardiopulmonary Effects Following Experimentally Induced Closed-chest Acute Myocardial Infarction in Dogs." (In Absentia)	

GEOGRAPHICAL RECAPITULATION

Jefferson Medical College	
Pennsylvania	117
Other States	65
U. S. Possessions	<u>2</u>
TOTAL	184

The foregoing additions bring the total number of Graduates to 21,669.

The College of Graduate Studies	
Pennsylvania	5
Other States	<u>4</u>
TOTAL	9

The foregoing additions bring the total number on the list of Graduates to 197.