

6-10-1983

## 1983 Commencement for Jefferson Medical College and College of Graduate Studies

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159TH  
COMMENCEMENT



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

1824-1983

*Friday, June Tenth  
Nineteen Hundred and Eighty-Three  
Ten O'clock*

*The Academy of Music*

PROCESSIONAL ..... Trumpet Voluntary ..... JOHN STANLEY  
The Jefferson Processional ..... BURLE MARX

#### THE NATIONAL ANTHEM

INVOCATION ..... RABBI MARTIN I. SANDBERG  
Suburban Jewish Community Center  
—B'nai Aaron

#### CONVOCATION

Opening Remarks ..... LEWIS W. BLUEMLE, JR., *President*  
Thomas Jefferson University

#### CONFERRING OF DEGREES IN COURSE ..... PRESIDENT BLUEMLE

Doctor of Philosophy  
Presented by ..... JUSSI J. SAUKKONEN, *Dean*  
College of Graduate Studies

Doctor of Medicine  
Presented by ..... LEAH M. LOWENSTEIN, *Vice President and Dean*  
Jefferson Medical College

The Oath of Hippocrates ..... EDWARD H. MCGEHEE, *Professor of Family Medicine*  
Jefferson Medical College

Master of Science  
Presented by ..... DEAN SAUKKONEN

#### CONFERRING OF HONORARY DEGREES ..... PRESIDENT BLUEMLE

BARUCH S. BLUMBERG, **Doctor of Humane Letters**  
Presented by: WILLIS C. MADDREY, *The Magee Professor of Medicine and  
Chairman of the Department*  
Jefferson Medical College

ROBERT C. GALLO, **Doctor of Science**  
Presented by: JUSSI J. SAUKKONEN  
*Dean, College of Graduate Studies*

RUTH PATRICK, **Doctor of Science**  
Presented by: ROBERT J. MANDLE, *Professor of Microbiology*  
Jefferson Medical College

ISAAC ASIMOV, **Doctor of Letters**  
Presented by: FREDERIC L. BALLARD, *ESQUIRE*  
*Chairman, Board of Trustees*  
Thomas Jefferson University

ADDRESS ..... ISAAC ASIMOV

BENEDICTION ..... RABBI MARTIN I. SANDBERG

RECESSIONAL ..... Pomp and Circumstance ..... Elgar

W. ERNEST WELLS, *Organist*

*Marshal*

FRANCIS J. SWEENEY, JR.

*Faculty Marshals*

LORETTA P. FINNEGAN    JOSEPH S. GONNELLA    ROBERT J. MANDLE    SAMUEL S. CONLY, JR.

*Student Marshals*

MARY C. MARTINI

MARK T. LAROCO

The audience is requested to remain seated during the Academic Procession and Recession.

# AWARDS and PRIZES

Awarded at Class Day Exercises on Thursday, June 9, 1983

#### FACULTY AWARDS

*The Christian R. and Mary F. Lindback Award for Distinguished Teaching.*

BASIC SCIENCES: LEONARD M. EISENMAN, B.A., M.A., Ph.D., Associate Professor of Anatomy

CLINICAL SCIENCES: FRANCIS E. ROSATO, M.D., Samuel D. Gross Professor of Surgery and  
Chairman of the Department

#### AWARDS TO GRADUATING STUDENTS

*The Clinical Surgery Prize* in memory of Francis Torrens Stewart, M.D., Professor of Surgery, Jefferson  
Medical College, 1910-1920.

MARY FRANCES BOYLE, (honorable mention: RICHARD JUDE GRECO)

*The Orthopaedic Surgery Prize*, sponsored by Professor John J. Gartland, M.D.

CRAIG MARTIN PALMER, (honorable mention: ELIZABETH JANE McSHANE)

*The Urology Prize*, awarded in memory of Theodore R. Fetter, M.D., The Nathan Lewis Hatfield  
Professor of Urology.

STEPHEN RAYMOND WALKER, (honorable mention: NANCY ANN LITTLE)

*The Edward J. Moore Memorial Prize in Pediatrics.*

FRED CARROLL

*The Henry Keller Mohler Memorial Prize in Therapeutics*, sponsored by Mr. Jesse Hubschman in memory  
of his wife, Natalie, to honor Henry Keller Mohler, M.D.

HOWARD SEYMORE SILVERMAN

*The S. Mac Cuen Smith Memorial Prize in Otolaryngology*, sponsored by Mrs. Stuart Lodge Bullivant in memory  
of her father.

PETER R. BERGETHON, (honorable mention: LYNDA CATHERINE SCHNEIDER)

*The Carroll R. Mullen Memorial Prize in Ophthalmology.*

THOMAS EDWARD CLINCH, (honorable mention: STEPHEN EUGENE PASCUCCI  
and PAUL LOUIS WALTON)

*The Obstetrics and Gynecology Prize* sponsored by Mrs. Sarah George Miller in honor of John B.  
Montgomery, M.D. Emeritus Professor of Obstetrics and Gynecology.

ELLEN KAY BLAIR, (honorable mention: RICHARD PAUL BUYALOS, Jr.)

*The Baldwin L. Keyes Prize in Psychiatry*, given annually by Mr. Joseph H. Levit in memory of his wife,  
Mae K. Levit, in honor of Baldwin L. Keyes, M.D., Sc.D., Emeritus Professor of Psychiatry.

SUNEET BHUSHAN CHAUHAN

*The William Potter Memorial Prize in Clinical Medicine*, award given from a bequest of Mrs. Adaline  
Potter Wear for highest attainment.

MARY FRANCES BOYLE, (honorable mention: HOWARD SEYMORE SILVERMAN)

*The Alumni Prize*, awarded by Jefferson Medical College Alumni Association for the highest cumulative  
record.

MARY FRANCES BOYLE, (honorable mention: HOWARD SEYMORE SILVERMAN)

*The Louis B. Swisher, Jr. Memorial Prize in Anesthesiology.*

DAVID ALAN GOODMAN, (honorable mention: WILLIAM JAMES DURKAN)

*The Philip J. Hodes Prize in Radiology.*

IRENE PHILLIPS, (honorable mention: THOMAS A. ZUMSTEG)

*The E. Harold Hinman Memorial Prize*, sponsored by family and friends in memory of E. Harold  
Hinman, Ph.D., M.D., M.P.H., Emeritus Professor of Preventive Medicine.

JOHN GEROME BERTOLINO, (honorable mention: LAUREN ELIZABETH THORNTON)

*The Leopold Goldstein Memorial Prize in Obstetrics and Gynecology*, sponsored by Mrs. Leopold Gold-  
stein and daughters in memory of Leopold Goldstein, M.D., for the highest average in Obstetrics and Gyne-  
cology.

ELLEN KAY BLAIR, (honorable mention: MAURO A. COLAVITA)

*The Arthur Krieger Memorial Prize in Family Medicine*, sponsored by family and friends in memory of  
Arthur Krieger, M.D.

SUZANNE HOLDCRAFT, (honorable mention: DENNIS MICHAEL SHEEHE)

*The Arthur Krieger Memorial Prize in Neurology*, sponsored by family and friends in memory of Arthur  
Krieger, M.D.

LAURENCE STEVEN KRAIN, (honorable mention: DAVID GREGG VOSSLER)

*The Dean Marie Baner Memorial Prize in Pediatrics*, sponsored by family and friends in memory of Dean Marie Baner, M.D., a graduate of the Class of 1973, for excellence in Pediatrics.

PETER EDMUND WALDRON, (honorable mention: ANN BERNADETTE OLEWNIK)

*The Hubert Spencer Sear Memorial Prize in Radiology*, sponsored by family and friends in memory of Hubert Spencer Sear, M.D., a graduate of the Class of 1950.

SUSAN MARIE BUONANNO, (honorable mention: ROBERT KURT HOLTERMAN)

*The Alexander and Lottie Katzman Award in Gastroenterology*. Sponsored by Dr. and Mrs. Joseph Medoff in memory of Mrs. Medoff's parents. Awarded to the student who has shown the greatest proficiency in Gastroenterology as judged by the faculty of this division.

STEVEN ALPHONSE EDMUNDOWICZ

*The Paul D. Zimskind Memorial Prize in Urology*, sponsored by the National Urologic Forum, in memory of Paul D. Zimskind, M.D., Ph.D., The Nathan Lewis Hatfield Professor of Urology, for academic excellence in the urologic field.

DAVID JULIAN KRAMER, (honorable mention: TIMOTHY PATRICK WALSH  
and DAVID CHARLES LEHMANN)

*The Philip and Bella Medoff Memorial Prize* is sponsored by their son Joseph Medoff, M.D., his wife and children. The prize is given to a senior medical student who is a member of the Hobart Amory Hare Medical Society and who is recommended by the Magee Professor of Medicine and the faculty advisor of the Society for excellence in Internal Medicine and outstanding contributions to the Society.

EVAN BARRY KRISCH

*The George J. Willauer Prize in General Surgery*. Established as a perpetual memorial by the family, friends and patients of Dr. George J. Willauer, former Clinical Professor of Surgery and a member of the surgical faculty from 1927 to 1977. Given to the graduating student for excellence in the field of General Surgery during his clinical years at Jefferson.

JOHN RAYMOND HOCH, (honorable mention: GARY YEE OTT)

*The Lemmon Prize in Anesthesiology* is awarded from an endowment established by members of the family of Dr. William Lemmon, Sr., who was Professor of Surgery and a member of the faculty at Jefferson Medical College from 1923 to 1964. The Lemmon Prize is given to a graduate who has done original clinical work or writing in the field of Anesthesiology.

KEVIN MARTIN CAMPBELL, (honorable mention: MARK WACIEGA)

*The Hyman Menduke Research Prize* is sponsored by Dr. Michael LeWitt of the Class of 1974 and is awarded to a graduating senior who, as determined by the Committee on Research of the Faculty, has demonstrated excellence in research while a student at Jefferson Medical College.

LEONARD IRA ZON, (honorable mention: HOWARD SEYMORE SILVERMAN)

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

DIANE LORETTA ROSCOE, (honorable mention: RUTH E. WEISSBERGER)

*The Janet M. Glasgow American Medical Women's Association Award of Outstanding Achievement* presented to a woman standing first in her class at graduation.

MARY FRANCES BOYLE

*The Janet M. Glasgow American Medical Women's Association Scholarship Achievement Citation*.

MARY FRANCES BOYLE

JOAN ELLIOTT JOHNSON

VANESSA JEAN LUCARELLA

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

PETER R. BERGETHON

RICHARD BENTON FREEMAN, Jr.

*W. B. Saunders Company Prize* to an outstanding student in the Senior Year. Medical Publications.

JOSEPH JOHN DRABICK

*The C. V. Mosby Company Prize*. Awarded to three outstanding graduates.

RICHARD JUDE GRECO

ROBERT BRIAN STANG

TIMOTHY PATRICK WALSH

*The Rittenhouse Book Store Prize* to a graduating student who has made a significant contribution to the College.

LYNN MURPHY O'BRIEN

ALL MEMBERS OF THE GRADUATING CLASS WILL RECEIVE THE FOLLOWING AWARDS:

*The William F. Kellow Award* established by the late Emeritus Dean. This award is a copy of *The Art of Medical Care and Caring*, a book of essays on the art of medical practice.

*The Louis Merves Award* established by the family and friends of the late Dr. Louis Merves of the Class of 1937 and former Clinical Associate Professor. This award is a copy of *The Youngest Science* by Lewis Thomas.

#### DOCTOR OF SCIENCE—RUTH PATRICK

Ruth Patrick is a prodigious scientist. She was born in Topeka, Kansas, in 1907 and went to undergraduate college in Hartsville, Georgia, where she earned her Bachelor of Science degree at Coker College. She continued her education at the University of Virginia and earned both a Master of Science and a Doctor of Philosophy degree.

Doctor Patrick's first publication in 1933 initiated a flow of scientific articles about tiny plants, particularly those known as diatoms, that were to be so important in her future work. These studies led to a landmark paper in 1949 describing the use of diatoms and other microscopic aquatic plants and animals as indicator organisms for the quality of fresh water lakes and streams. Her numerous and scholarly scientific publications over many years have contributed to her international reputation.

Her scientific efforts have brought her the highest honors that science can bestow. She has been elected to the National Academy of Sciences, the American Philosophical Society, and the American Academy of Arts and Sciences. Other important honors received by her both at home and abroad include The Gimbel Philadelphia Award in 1969 and more than twenty other honors. This year she was named recipient of the George Washington Carver Award.

Doctor Patrick's contributions to her discipline and its application to environmental studies have similarly been recognized by the fact that she has been awarded 17 honorary degrees. Her expertise has been sought by the City of Philadelphia, the Commonwealth of Pennsylvania, and the Federal Government, as well as academic institutions where she has served on various committees, councils, and advisory groups. Doctor Patrick also serves on several governing boards of colleges, foundations, and wildlife conservation groups.

She has been associated with the University of Pennsylvania since her arrival in Philadelphia where, as an adjunct professor, she challenges the minds of both undergraduate and graduate students in the classroom.

Doctor Patrick came to Philadelphia and its Academy of Natural Sciences 50 years ago. In 1947 she became curator and chairman of the Limnology Department. She remained as chairman until 1973 when she was elected Chairman of the Board of Trustees of the Academy of Natural Sciences and now serves as its Honorary Chairman. Ruth Patrick is a dedicated and enthusiastic scientist whose daily schedule is still very demanding. She continues her work in the laboratory as well as outdoors at the streams.

This indefatigable scholar has helped change our thinking about our environment and has reached the pinnacle of success and attainment in her scientific endeavors.

She is the wife of the entomologist, Dr. Charles Hodge, IV, and the mother of one son, Charles Hodge, V.

#### DOCTOR OF LETTERS—ISAAC ASIMOV

Isaac Asimov, at the age of seven, taught his five year old sister to read—and he has been communicating his love of words, written and spoken, ever since. "I have been avid to learn and avid to teach," he has written.

Isaac Asimov was born in 1920 in Russia. With his parents, he emigrated to the United States at an early age and grew up in Brooklyn, New York. He attended Columbia University in New York City where he earned a Bachelor of Science degree, a Master of Arts degree, and subsequently his Doctor of Philosophy degree in chemistry in 1948. In 1949 Doctor Asimov joined the faculty of Boston University School of Medicine where he is currently Professor of Biochemistry.

Doctor Asimov is one of the most popular and prolific writers of today. He has published over 271 books on subjects ranging from astrophysics to naughty limericks, from commentaries on the Bible and Shakespeare to a book of humor. He has written over 300 short stories and over 2,500 miscellaneous essays. Isaac Asimov writes swiftly and easily seven days a week. It has been said that he has four typewriters, and he moves from one to another working on four different manuscripts at a time. This may be true or merely Isaac Asimov slyly poking fun at himself; nevertheless, he does pour out a torrent of two to four thousand words each day.

As a writer of science fiction, he has no equal. His *Foundation* series is more than futuristic fantasy, it is inventive, masterfully written, and grounded in scientific fact. The last in the series, *Foundation's Edge*, is a current bestseller.

Doctor Asimov has two children, David and Robyn Joan. He is married to Joan Jeppson, M.D., a psychiatrist. His father-in-law, the late John Rufus Jeppson, graduated from Jefferson Medical College in 1923. It is noteworthy that more than a half a century after his father-in-law graduated, Doctor Asimov is paying tribute to the Class of 1983.

DOCTOR OF HUMANE LETTERS—BARUCH SAMUEL BLUMBERG

Baruch Samuel Blumberg, *Nobel Laureate*, was born in New York City in 1925. He received his undergraduate education at Union College in Schenectady, New York, and earned his M.D. degree at the College of Physicians and Surgeons of Columbia University in 1951. Doctor Blumberg continued his training from 1951 to 1955 as a resident and then a fellow at Bellevue and Presbyterian Hospitals in New York City.

During the years 1955 to 1957, he studied at Oxford University in England and was awarded a Doctor of Philosophy degree in Biochemistry in 1957. He returned to the United States and for the next seven years he served as Chief of the Geographic Medical and Genetic Section at the National Institutes of Health in Bethesda, Maryland. During this time he investigated inherited differences in serum proteins and the different ways population groups might vary in their responses to infectious agents. His research interests in protein polymorphism led to extensive travel to all parts of the world.

Doctor Blumberg is best known for his discovery in 1963 of the "Australia Antigen" which was later proven to be causally related to hepatitis B. After finding an antigen in the blood of an Australian aborigine which reacted with an antibody in a multiple-transfused hemophiliac, Doctor Blumberg and his colleagues developed this line of research and identified the relation of the antigen with hepatitis B. Through subsequent extensive research, Doctor Blumberg and his colleagues developed the screening test used throughout the world for the identification of hepatitis B. It was for this discovery of the Australia antigen, which subsequently became the principal marker for the detection of hepatitis B, that Doctor Blumberg received the Nobel Prize in Medicine and Physiology in 1976.

Following the initial identification and characterization of the hepatitis B virus, extensive research efforts have led to the development of a safe and effective vaccine against this very important worldwide disease. Additional major contributions have come from Doctor Blumberg's laboratory in the understanding of the relation between chronic hepatitis B infection and the development of liver cancer.

In 1964, Baruch Blumberg joined the Institute for Cancer Research in Philadelphia. He is currently Associate Director for Clinical Research and senior member of that institution and also a University Professor of Medicine and Anthropology at the University of Pennsylvania. He is a member of numerous societies including the National Academy of Sciences. In addition to the Nobel Prize he is the recipient of many other awards, including the Passano Award which he received in 1974.

DOCTOR OF SCIENCE—ROBERT CHARLES GALLO

Robert Charles Gallo was born in Waterbury, Connecticut, in 1937. He graduated summa cum laude from Providence College, Providence, Rhode Island, in 1959, and entered Jefferson Medical College. Doctor Gallo's early interest in research was evident during his years at Jefferson. He worked in the laboratory of Dr. Allan J. Erslev on a summer fellowship and was the president of the Student Research Society. He was also elected to the Alpha Omega Alpha Honor Society, and won the Internal Medicine Prize in his senior year. He received his Doctor of Medicine degree from Jefferson in 1963.

Following an internship and residency in Medicine at the University of Chicago, he joined the National Cancer Institute as a clinical associate in 1965. Doctor Gallo has continued to serve in various capacities at the National Cancer Institute throughout his distinguished research career. He was appointed Senior Investigator at the Human Tumor Cell Biology Branch in 1968, and became head of its section on Cellular Control Mechanisms in 1969. Since 1972, he has been the Chief of the Laboratory of Tumor Cell Biology at the National Cancer Institute.

Doctor Gallo is the author of a large number of original scientific articles and reviews, and he has been invited to join the editorial boards of many scientific journals. He has served national and international scientific societies and institutions in many capacities—as an officer, consultant, guest lecturer, or chairman of scientific conferences.

Robert Gallo has made fundamental contributions to our understanding of malignant diseases, especially regarding the association of type C RNA viruses with leukemias and lymphomas. Important aspects of our current understanding of the nature of cancer at the genomic level arise from recent findings by Doctor Gallo and his associates. These include the discovery of the human T-cell leukemia virus and its characterization, as well as the study of its possible involvement in other conditions which affect the immune system.

Doctor Gallo was awarded the Albert Lasker Basic Medical Research Award in 1982 for his contributions to science. The long list of his other honors and awards include the First Dameshek Award of the American Hematological Society, the First CIBA-GEIGY DREW Award in Biomedical Research, the First Otto Herz Memorial Lectureship Award from Tel-Aviv University, Israel, a Superior Service Honor Award of the National Institutes of Health, and a Meritorious Service Medal. Providence College, his undergraduate Alma Mater, awarded him an honorary Doctor of Science degree in 1974.

- STEPHEN EUGENE PASCUCCI, JR. . . . . Peckville, PA
- CORNELL PEARCY . . . . . Philadelphia, PA
- KEMUEL LUKE PHILBRICK . . . . . Benson, MN
- IRENE PHILLIPS . . . . . Wilmington, DE
- ELIZABETH ANNE PIERCY . . . . . Berwyn, PA
- EDWARD MARION PODGORSKI, JR. . . . . Haddonfield, NJ
- JAMES MICHAEL PRATA . . . . . Bulgar, PA
- ANTHONY JOSEPH PRESTIPINO . . . . . Johnstown, PA
- DONNA BETH PRICE . . . . . Newark, DE
- JOEL F. RACH . . . . . Monongahela, PA
- LEONIDAS WILLIAM RAISIS . . . . . Jamesburg, NJ
- GLENYS SHIRLEY REES . . . . . Wilmington, DE
- JAMES HENRY REID III . . . . . Chalfont, PA
- JAMES MURPHY RITTER . . . . . Wilmington, DE
- SUSAN LEE ROGERS . . . . . Wilkes-Barre, PA
- BRUCE MARK ROMANIC . . . . . Weatherly, PA
- DIANE LORETTA ROSCOE . . . . . New Cumberland, PA
- WAYNE KENNETH ROSS . . . . . Newtown, PA
- MARK STEVEN ROZICK . . . . . Tyrone, PA
- MARK ISAAC RUBINSTEIN . . . . . Penn Valley, PA
- JOHN JUSTIN RUFFINI . . . . . Wallingford, PA
- W. RANDALL RUSSELL . . . . . Rosemont, PA
- FREDERICK WILLIAM RUTHARDT, JR. . . . . Southampton, PA
- DALE WILLIAM SAILER . . . . . Myerstown, PA
- JOAQUIN SARRIEGO, JR. . . . . Philadelphia, PA
- ANDREW BRIAN SATTEL . . . . . Moorestown, NJ
- RODGER CLARKE SAYRE . . . . . Tunkhannock, PA
- LYNDA CATHERINE SCHNEIDER . . . . . Bethel Park, PA
- JOHN WADE SEAFORD . . . . . Carlisle, PA
- CARL BARTON SHANHOLTZ . . . . . Laverock, PA
- DENNIS MICHAEL SHEEHE . . . . . Harrisburg, PA
- KEITH BENJAMIN SHELMAN . . . . . Plymouth Meeting, PA
- BRADEN ALAN SHOUBE . . . . . Smyrna, DE
- W. ERIC SHRADER . . . . . Malvern, PA
- HOWARD SEYMORE SILVERMAN . . . . . King of Prussia, PA
- AMY LOUISE SIMS . . . . . Rosemont, PA
- AJAY BIR SINGH . . . . . Clarion, PA
- MARCA LEONISE SIPSKI . . . . . Bridgewater, NJ
- KEVEN FLINCHBAUGH SLENKER . . . . . Red Lion, PA
- DEAN ALAN SLOAN . . . . . Dresher, PA
- HENRY FRANCIS SMITH, JR. . . . . Mountaintop, PA
- SHERYL GLASSMAN SPIELMAN . . . . . Philadelphia, PA
- THOMAS JOHN SPINUZZA . . . . . Lafayette Hill, PA
- ELIZABETH CHERRY SQUIERS . . . . . Bloomfield Hills, MI
- ROBERT BRIAN STANG . . . . . Succasunna, NJ
- KENNETH PETER SUNNERGREN . . . . . Bethlehem, PA
- JOHN PETER SUTYAK . . . . . Pittsburgh, PA
- JAMES THOMAS SYGENDA . . . . . Holland, PA
- ROBERT JOSEPH TALAMO . . . . . Greensburg, PA
- JEFFREY DAVID THATCHER . . . . . Easton, PA
- SUSAN LYNN THORNSLEY . . . . . Harrisburg, PA
- LAUREN ELIZABETH THORNTON . . . . . Villanova, PA
- SCOTT ANTHONY TREZZA . . . . . Valley Forge, PA
- WARREN HERMAN TRIPP, JR. . . . . Bryn Mawr, PA
- KESSI MOSES O. TUKE . . . . . Newark, NJ
- ANTON-LEWIS USALA . . . . . Wilmington, DE
- JEFFREY MARK VARGA . . . . . Uniontown, PA
- DAVID GREGG VOSSLER . . . . . Cherry Hill, NJ
- MARK WACIEGA . . . . . Ardmore, PA
- JAMES DAVID WAGNER . . . . . Chalfont, PA
- PETER EDMUND WALDRON . . . . . West Chester, PA
- STEPHEN RAYMOND WALKER . . . . . Cheltenham, PA
- TIMOTHY PATRICK WALSH . . . . . Camp Hill, PA
- PAUL LOUIS WALTON . . . . . Wayne, PA
- STEVEN JAY WEISS . . . . . Huntingdon Valley, PA
- RUTH E. WEISSBERGER . . . . . Metuchen, NJ
- THERESA MARIE WELSH . . . . . Springfield, PA
- ANTHONY THOMAS WERHUN . . . . . Wilkes-Barre, PA
- MITCHELL SCOTT WHITEMAN . . . . . Wilmington, DE
- ANDREW ALLEN WILLET . . . . . Cresco, PA
- THOMAS GREGORY WILSON . . . . . Ambler, PA
- BRYAN LYNN YINGLING . . . . . York, PA
- DONALD JOHN ZELLER . . . . . Hopwood, PA
- LEONARD IRA ZON . . . . . Broomall, PA
- THOMAS A. ZUMSTEG . . . . . Wilmington, DE

CANDIDATES FOR THE DEGREE OF MASTER OF SCIENCE

- NANCY JANE LAWRIE (Pharmacology) . . . . . Mountainside, NJ  
Thesis Title: "Evaluation of Anticancer Agents in Cultured Human Fibroblasts."
- ALFRED ANTHONY RENZI, JR. (Microbiology) . . . . . Wilmington, DE  
Thesis Title: "Separation of L5178Y Cells from the DBA/2 Peritoneal Host Cell Population by Nylon Granule Columns."

CANDIDATES FOR THE DEGREE OF MASTER OF SCIENCE (CLINICAL MICROBIOLOGY)

- ANNE F. CLARK DEMEIS . . . . . Philadelphia, PA
- KAREN ANITA FISHER . . . . . Philadelphia, PA
- GERALD ERVIN HANCOCK . . . . . Philadelphia, PA
- ROBERT LEIBOWITZ . . . . . Philadelphia, PA

As final action cannot always be taken before the program goes to press, Thomas Jefferson University reserves the right to add or withdraw names from the list of candidates for degrees.

CANDIDATES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

- SANDRA ELAINE BURKE (Physiology) .....Trenton, NJ  
 Thesis Title: "Thromboxane A2 Synthesis Inhibition and Receptor Antagonism During Acute Myocardial Ischemia in Cats."
- JUDITH LYNN CHIGER (Pharmacology) .....Philadelphia, PA  
 Thesis Title: "Effect of Pharmacologic Agents on Macromolecular Synthesis of Cells in Culture."
- KATHRYN HILL DETURCK (Pharmacology) .....Drexel Hill, PA  
 Thesis Title: "Plasma and Brain Catecholamine in Rats: Effects of Stressful Stimulation and Ethanol Administration."
- JOHN S. ELLIS (Biochemistry) .....Elkins Park, PA  
 Thesis Title: "Synthesis, Characterization and Immunological Studies of Six Known Sequence Polymers Containing Tyrosine, Glutamic Acid, Alanine, Glycine."
- WAI CHANG HO (Anatomy) .....Philadelphia, PA  
 Thesis Title: "Prostaglandins and Cyclic Nucleotides as Possible Modulators of Chondrogenic Expression."
- GARY GERARD INGENITO (Microbiology) .....Hamden, CT  
 Thesis Title: "Suppression of an *in vitro* Antibody Response Resulting from Interactions between T-Cell Subsets from Normal and Tumor-Bearing Mice."
- JEFFREY I. KRIEGER (Biochemistry) .....Norristown, PA  
 Thesis Title: "MHC Restricted and Allogeneic Cytotoxic T-Cell Killing; the Relationship to Surface Antigen Density."
- HENRY TSE-WEI LING (Microbiology) .....Philadelphia, PA  
 Thesis Title: "The Mechanism of Action by which a Quinazoline Compound, WY-41-782, Inhibits the Growth of *Mycobacterium fortuitum*."
- GLORIA B. POST (Pharmacology) .....Cornwells Heights, PA  
 Thesis Title: "Effects of Enzyme Induction on Microsomal Benzene Metabolism."
- THOMAS HIDLAY RUSHMORE (Biochemistry) .....Morris Plains, NJ  
 Thesis Title: "The Metabolism of Benzene and Its Inhibition of Macromolecular Synthesis in Mitochondria."
- ELISE ANN TRIANO (Pharmacology) .....New Cumberland, PA  
 Thesis Title: "Benzo(a)pyrene-Induced Tumors: Differences between Mouse Strains and the Protective Effect of Trifluralin."

CANDIDATES FOR THE DEGREE OF DOCTOR OF MEDICINE

- |   |   |
|---|---|
| KEITH SUMNER ALBERTSON .....Wallingford, PA | JAMES GREGORY BOYAJIAN .....Berwyn, PA        |
| BRIAN DAVID ALLEN .....Pennsauken, NJ       | DEBRA BOYER .....Oil City, PA                 |
| JAMES SPACKMAN ANDERSEN .....Wilmington, DE | MARY FRANCES BOYLE .....Scranton, PA          |
| KENNETH ROY ARTHUR .....Mechanicsburg, PA   | LAWRENCE DAVID BRENNER .....Hollidaysburg, PA |
| THOMAS LANE ASHCOM .....State College, PA   | SUSAN MARIE BUONANNO .....Phoenixville, PA    |
| RICHARD P. BAKER III .....Drexel Hill, PA   | RICHARD PAUL BUYALOS, JR. ....Stevenson, MD   |
| NEIL BRUCE BAUM .....Meadowbrook, PA        | THOMAS ANDREW CACCIOLA .....Leonia, NJ        |
| PETER R. BERGETHON .....Buck Hill Falls, PA | KEVIN MARTIN CAMPBELL .....Willow Grove, PA   |
| JOHN GEROME BERTOLINO .....Indiana, PA      | THOMAS ANTHONY CARNEVALE .....Wilmington, DE  |
| STUART ROSS BITTERMAN .....Inwood, NY       | JAMES JOSEPH CARNEY .....Wilmington, DE       |
| ELLEN KAY BLAIR .....Pittsburgh, PA         | FRED CARROLL .....Philadelphia, PA            |
| F. DOUGLAS BLAZEK .....Monroeville, PA      | DEBBIE RENE CARTER .....Uniondale, NY         |
| AARON DAVID BLEZNAK .....Wyncote, PA        | JEFFREY ROBERT CHAIN .....Pittsburgh, PA      |
| LAWRENCE ALLAN BLINN .....Cherry Hill, NJ   | ROBERT MICHAEL CHANG .....Cinnaminson, NJ     |
| JEFFERY JOHN BOWERS .....Yardley, PA        | MARK EDWARD CHASTENEY .....Bala-Cynwyd, PA    |

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| SUNEET BHUSHAN CHAUHAN .....Glenside, PA      | DAVID ANDREW HUNSINGER .....Apalachin, NY          |
| GEORGE TSUNG-HONG CHEN .....Altoona, PA       | GARY GERARD INGENITO .....New Haven, CT            |
| NEIL CHESEN .....Jenkintown, PA               | JOAN ELLIOTT JOHNSON .....Wilmington, DE           |
| HIN SING CHOI .....Philadelphia, PA           | MARK BENNETT KAHN .....Jenkintown, PA              |
| DEAN ARTHUR CHRISTIAN .....Waynesburg, PA     | STEPHEN PAUL KAJENCKI .....Easton, PA              |
| BARRY SCOTT CLEMSON .....Philadelphia, PA     | BORIS ALEXANDER KARAMAN .....Newtown Square, PA    |
| THOMAS EDWARD CLINCH .....Murrysville, PA     | ROBERT EMMETT KEARNEY .....Short Hills, NJ         |
| PETER A. COGNETTI .....Scranton, PA           | JEFFREY ALAN KEENAN .....Franklin, PA              |
| JOEL RAYMOND COHEN .....Wynnewood, PA         | WILLIAM MICHAEL KENDRICK .....Pittsburgh, PA       |
| MAURO A. COLAVITA .....Philadelphia, PA       | FRANK JOSEPH KESSLER, JR. ....Nazareth, PA         |
| MARGARET MARY CORBOY .....Philadelphia, PA    | DAVID ELMER KING .....Whippany, NJ                 |
| MICHAEL HUGH CULLEN .....W. Hartford, CT      | MATT LOCKWOOD KIRKLAND III ....St. Clairsville, OH |
| ANDREW J. CURTIN .....Philadelphia, PA        | LAURENCE STEVEN KRAIN .....Villanova, PA           |
| THEODORE JAMES DALY .....Clinton Corners, NY  | DAVID JULIAN KRAMER .....Philadelphia, PA          |
| LOUIS FRANCIS D'AMELIO .....Philadelphia, PA  | EVAN BARRY KRISCH .....Abington, PA                |
| BARBARA LEA DAVIES .....State College, PA     | SUSAN JEAN KUCIRKA .....Northampton, PA            |
| PAUL KUNKEL DAVIS .....Mechanicsburg, PA      | LAWRENCE GERMAIN LAREAU .....Warren, PA            |
| TODD LYLE DEMMY .....Bernville, PA            | MARY ANN EVA LEAL .....Chula Vista, CA             |
| JOSEPH JOHN DRABICK .....Phoenixville, PA     | DAVID CHARLES LEHMANN .....Philadelphia, PA        |
| WILLIAM JAMES DURKAN .....Altoona, PA         | NANCY ANN LITTLE .....Media, PA                    |
| STEVEN ALPHONSE EDMUNDOWICZ ....Camp Hill, PA | RONALD ANDREW LONG .....Beaver Falls, PA           |
| MARK EDWARDS .....Philadelphia, PA            | VANESSA JEAN LUCARELLA .....Yardley, PA            |
| ALEX FEINSTEIN .....Philadelphia, PA          | GLENN ALEXANDER MACKIN .....Philadelphia, PA       |
| ELLEN KAY FELDMAN .....Elkins Park, PA        | GLENN STANGER MADARA .....Salem, NJ                |
| MICHAEL LYNN FETTEROLF .....Selinsgrove, PA   | JOSEPH IGNATIUS MAGUIRE .....Wallingford, PA       |
| JEFFREY ALAN FREED .....Vineland, NJ          | RICHARD GERARD MANNING .....Conshohocken, PA       |
| RICHARD BENTON FREEMAN, JR. ....Pittsford, NY | PAUL FURMAN MANSFIELD .....Dresher, PA             |
| HOWARD FUGATE III .....DuBois, PA             | SAMUEL HARRIS MARKIND .....Devon, PA               |
| HUGH ANTHONY GELABERT .....Scranton, PA       | STUART J. MASLIN .....Lafayette Hill, PA           |
| HARLEN WILFORD GESSNER .....Paxinos, PA       | FERDINAND EDWARD MASSARI .....Catonsville, MD      |
| MARTIN BRIAN GETZOW .....Warminster, PA       | DONALD SAMUEL MATHESON .....Brooklyn, NY           |
| MARY MILNE GILBERT .....Madison, WI           | BRAD TRAFTON MATHIAS .....Wormleysburg, PA         |
| ERIC HUMBERTO GONZALEZ .....Danville, PA      | PHILIP MITCHEL MAURER .....Wyncote, PA             |
| DAVID ALAN GOODMAN .....Roslyn, PA            | GREGORY JOHN MAZANEK .....Hermitage, PA            |
| BRUCE JONATHAN GOULD .....Kittaning, PA       | ELCINDA L. MCCRONE .....Harrisburg, PA             |
| MARILYN GRANGER .....Rehoboth, MA             | MICHAEL MARTIN McDONALD .....Easton, PA            |
| RICHARD JUDE GRECO .....Drums, PA             | JAMES KIEFFER McDONNELL .....Fowler, CO            |
| MARC STEVEN GREENBLATT .....Philadelphia, PA  | ELIZABETH JANE MC SHANE .....Wilmington, DE        |
| JEFFREY ROBERT GREENWALD .....Wilmington, DE  | THOMAS DANIEL MEADE .....Pittston, PA              |
| JOSEPH ANTHONY HABIG II .....Watsonstown, PA  | PETER HOWARD MICHELSON .....Marblehead, MA         |
| TIMOTHY WAYNE HAGEMANN .....Wilmington, DE    | WAYNE L. MILLER .....Wilmington, DE                |
| DANIEL HAIMOWITZ .....Levittown, PA           | KARL THEODORE NAEGELE .....Grove City, PA          |
| EUGENE JOHN HAMMELL, JR. ....Munhall, PA      | LEONARDO SALVATORE NASCA, JR. ....Wesleyville, PA  |
| TIMOTHY MICHAEL HEILMANN .....Pittsburgh, PA  | BEVERLY JEAN NIEHLS .....Stanhope, NJ              |
| CYNTHIA ANN HELDT .....Wilmington, DE         | CHARLES CLYDE NORELLI .....Emmaus, PA              |
| SAUL HERSHEL HELFING .....Los Angeles, CA     | LYNN MURPHY O'BRIEN .....Vestal, NY                |
| JOSEPH MAURICE HENRY .....Greensburg, PA      | WALTER MEYER O'BRIEN .....Springfield, PA          |
| JOHN CLAIR HESS .....Lancaster, PA            | ANN BERNADETTE OLEWNIK .....Wilmington, DE         |
| GIDEON DEE HILL .....Greenville, DE           | KEVIN MICHAEL O'NEIL .....Hockessin, DE            |
| KENNETH OWEN HILL .....Webster, NY            | DANIEL G. ORR .....Merion, PA                      |
| JOHN RAYMOND HOCH II .....Berwyn, PA          | RICHARD KENNETH OSENBACH .....Reading, PA          |
| SUZANNE HOLDCRAFT .....Woodbury, NJ           | GARY YEE OTT .....Pittsburgh, PA                   |
| ROBERT KURT HOLTERMAN .....Hackettstown, NJ   | CRAIG MARTIN PALMER .....Wilmington, DE            |

## 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 University 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 sixty 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 Associates, Bachelors, Masters, and Doctors and at the same time recognize the university which has given them the degree.

The Associate in Arts and Bachelor's gowns have pointed sleeves and are 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 Associate's, Bachelor's and Master's degrees, and rayon or silk ribbed material is used for the Doctor's degree. All gowns are black except for the Associates in Arts degree which is gray.

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 and Associate'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 Doctor's, Master's and Bachelor's hoods are usually made of velvet in the color designating the subject in which the degree was granted. The Associate of Arts hood has no velvet border. The outside is black.

Black mortarboards are worn for all degrees.

## THE JEFFERSON PROCESSIONAL

The Jefferson Processional was commissioned by the Alumni Association of Jefferson Medical College and played for the first time on November 15, 1974, at the Sesquicentennial Celebration of Jefferson Medical College of Thomas Jefferson University. This piece was presented to Thomas Jefferson University by the President of the Alumni Association of Jefferson Medical College, Dr. John J. Gartland. The composition was composed by Burle Marx.

## THE PRESIDENTIAL BADGE OF THOMAS JEFFERSON UNIVERSITY

The President's Badge was created for the Inauguration of Lewis W. Bluemle, Jr., M.D., the third President of Thomas Jefferson University, on September 7, 1977. It consists of four official corporate seals of Thomas Jefferson University and the predecessor corporation, The Jefferson Medical College of Philadelphia. These seals were used to mark diplomas, certificates, and other official documents and have been gold-plated to form the Presidential Badge.

The medallion on the President's right is the corporate seal of Thomas Jefferson University today and was created in 1969 when Jefferson Medical College became Thomas Jefferson University. It carries a contemporary likeness of Thomas Jefferson.

The other three medallions are the various seals that were used in Jefferson Medical College for many years. The oldest marked every diploma that was issued by the College from 1839 to 1967. This seal carries a traditional likeness of a young Thomas Jefferson and the founding date of the College as 1826. Prior to 1839 the diploma of Jefferson Medical College carried the seal of the Jefferson College in Canonsburg, Pennsylvania—the parent institution.

Another seal was developed in 1967 as a result of research done by the late Edward L. Bauer, Emeritus Professor of Pediatrics, who determined that the founding year of Jefferson Medical College was 1824 rather than 1826. This seal is identical to the present corporate seal except the words "Thomas Jefferson University" replace "Jefferson Medical College". It was used for only two years—from 1967 to 1969.

The Presidential Badge is on permanent display in the Scott Library and is used at all convocations of the University.