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1986 Commencement for Jefferson Medical College and College of Graduate Studies

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162ND
COMMENCEMENT



Jefferson Medical College
College of Graduate Studies
of
Thomas Jefferson University
Philadelphia, Pennsylvania
1824-1986

Friday, June Sixth
Nineteen Hundred and Eighty-Six
Half Past Ten O'clock

The Academy of Music

THE OATH OF HIPPOCRATES

I do solemnly swear by that which I hold most sacred:

That I will be loyal to the profession of medicine,
just to its members, and generous to its institutions;

That I will lead my life and practice my art in
uprightness and honor;

That I will give respect and gratitude to those who
have taught me this art;

That into whatsoever house I shall enter, it shall be
for the good of the sick to the utmost of my power,
I holding myself aloof from wrong, from corruption,
from the tempting of others to vice;

That I will exercise my art for the best care of my
patients,
and I will give no drug, perform no operation for
a criminal purpose, even if solicited far less
suggest it;

That whatsoever I shall see or hear of the lives of
my patients which is not fitting to be spoken,
I will keep inviolably secret.

These things I do promise upon my honor.

PROCESSIONAL Trumpet Voluntary JOHN STANLEY
The Jefferson Processional BURLE MARX

OPENING PROCLAMATION EDWARD C. DRISCOLL, *Chairman*
Board of Trustees
Thomas Jefferson University

THE NATIONAL ANTHEM

INVOCATION RABBI PATRICE HELLER
Congregation Rödèph Shalom

CONVOCATION LEWIS W. BLUEMLE, JR., *President*
Thomas Jefferson University

CONFERRING OF DEGREES IN COURSE THE PRESIDENT

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

Doctor of Medicine
Presented by JOSEPH S. GONNELLA, *Dean and Vice President*
Jefferson Medical College

The Oath of Hippocrates EDWARD H. MCGEHEE, *The Ellen M. and Dale W.*
Garber Professor of Family Medicine
Jefferson Medical College

Master of Science
Presented by DEAN SAUKKONEN

CONFERRING OF HONORARY DEGREES THE PRESIDENT

HILARY KOPROWSKI, *Doctor of Letters*
Presented by CHAIRMAN DRISCOLL

CAROL M. MCCARTHY, *Doctor of Science*
Presented by MICHAEL J. BRADLEY
Vice President for Health Services
and Executive Director
Thomas Jefferson University Hospital

BENEDICTION RABBI HELLER

RECESSIONAL Pomp and Circumstance Elgar

W. ERNEST WELLS, *Organist*

Grand Marshal
ROBERT J. MANDLE

Faculty Marshals
BENJAMIN BACHARACH LORETTA P. FINNEGAN BRUCE E. JARRELL HYMAN MENDUKE
ARTHUR R. OWENS JOSEPH F. RODGERS RICHARD R. SCHMIDT

Student Marshals
MARIA CIRONE JENNIFER LATA
Jefferson Medical College College of Graduate Studies

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

CANDIDATES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

- GENE JEFFREY BLATT (Anatomy) Norristown, PA
Thesis Title: "The Topographic Organization of the Olivocerebellar Projection in Normal and Mutant Mice."
- MARIE CECILE CHABOT (Anatomy) Auburn, ME
Thesis Title: "Studies of Mechanisms by which Prostaglandin Synthesis is Regulated by cAMP in Mouse Embryo Palate Mesenchyme Cells."
- SHAWN T. CONAHAN (Pharmacology) Doylestown, PA
Thesis Title: "The Conscious Freely Moving Rat as a Model for the Study of Stress Effects on Cardiovascular Function."
- DAVID LEE GLICK (Microbiology) Philadelphia, PA
Thesis Title: "Decreased Resistance to *Salmonella typhimurium* during African Trypanosomiasis."
- GERALD ERVIN HANCOCK (Microbiology) South Gibson, PA
Thesis Title: "The Genetics of Resistance to *Yersinia enterocolitica* in Inbred Strains of Mice."
- MARY JANE HINZMAN (Biochemistry) Washington, PA
Thesis Title: "Angiotensin II Binding to Rat Renal Microvillar Membranes Forty-Eight Hours Following Unilateral Nephrectomy."
- ROBERT LOUIS KORN (Physiology) Philadelphia, PA
Thesis Title: "Effects of Intracoronary Verapamil Administration in a Sheep Model of Acute Myocardial Ischemia and Reperfusion."
- MARLENE ELAINE KYLE (Pharmacology) Harrisburg, PA
Thesis Title: "Salicylate-Induced Nephrotoxicity: Relation to Renal Mitochondrial Metabolism."

CANDIDATES FOR THE DEGREE OF DOCTOR OF MEDICINE

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Syracuse, NY

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B.A., Swarthmore College
Chestnut Hill Hospital, Philadelphia, PA

ROSALIE PEPE Exeter, PA
B.A., University of Pennsylvania
Hahnemann University Hospital, Philadelphia, PA

WILLIAM FRANK PHIFER Eureka, IL
B.A., Illinois Wesleyan University
University of Florida Medical Center, Gainesville, FL

GORDON REED PHILLIPS, III Cinnaminson, NJ
B.S., The Pennsylvania State University
State University of New York at Buffalo, Buffalo, NY

CRAIG CHARLES POWELL Rochester, NY
B.S., University of Rochester
San Diego Naval Hospital, San Diego, CA

PHILIP LAWRENCE PROSAPIO N. Patchogue, NY
A.B., Princeton University
University of Minnesota Hospitals, Minneapolis, MN

HOLLY PLIMPTON PUGH Raleigh, NC
B.A., Wake Forest University
The Medical College of Pennsylvania, Philadelphia, PA

VERNON WATSON PUGH Raleigh, NC
B.A., The University of North Carolina at Chapel Hill
The Graduate Hospital, Philadelphia, PA

SAMUEL GRADY PUTNAM, III Norristown, PA
B.A., Colorado State University
St. Vincent's Hospital, New York, NY

ROBERT STEPHEN REAM Cherry Hill, NJ
B.A., Franklin and Marshall College
St. Louis University Hospital, St. Louis, MO

ROBERT LEON ROBLES Tucson, AZ
AOA
B.A., Pomona College
Milton S. Hershey Medical Center, Hershey, PA

JAMES JOSEPH ROCHE Dickson City, PA
B.S., University of Scranton
Saint Barnabas Medical Center, Livingston, NJ

RODGER FREDERICK ROTHENBERGER Sinking Spring, PA
B.S., Albright College
The Bryn Mawr Hospital, Bryn Mawr, PA

WILLIAM PETERSON RUMBAUGH Meyersdale, PA
cum laude
AOA
B.A., Gettysburg College
Thomas Jefferson University Hospital, Philadelphia, PA

WILLIAM ROBERT SCHECTMAN Wilmington, DE
B.A., Brown University
Thomas Jefferson University Hospital, Philadelphia, PA

LESLIE BERNARD SCORZA Boonton, NJ
B.A., The Johns Hopkins University
Brooke Army Medical Center, San Antonio, TX

MARK ALAN SHELLY Bluffton, OH
magna cum laude
AOA
B.A., Bluffton College
Strong Memorial Hospital, Rochester, NY

JANE SHEN Monroeville, PA
B.S., The Pennsylvania State University
Tripler Army Medical Center, Honolulu, HI

PATRICIA ANN SHUSTER Los Altos, CA
B.A., University of California — Berkeley
Georgetown University Hospital, Washington, DC

THOMAS MICHAEL SIMONIAN Erie, PA
magna cum laude
B.S., The Pennsylvania State University
M.S., Gannon University
Hamot Medical Center, Erie, PA

JAMES ROSS SLEMMER Haddonfield, NJ
B.S., Muhlenberg College
Thomas Jefferson University Hospital, Philadelphia, PA

BRIAN SCOTT SMITH Bedford, PA
B.S., Temple University
Central Maine Medical Center, Lewiston, ME

JAMES ANDERSON SMITH Winston-Salem, NC
B.A., The University of North Carolina at Greensboro
Duke University Medical Center, Durham, NC

JOHN A. SNELL State College, PA
B.S., The Pennsylvania State University
Crozer-Chester Medical Center, Chester, PA

DEBORAH ALICE SNYDERMAN Plymouth Meeting, PA
B.A., Temple University
Thomas Jefferson University Hospital, Philadelphia, PA

BRUCE HOWARD SOKOLOFF Wilmington, DE
B.A., Emory University
Medical Center of Delaware, Newark, DE

BENNETT LOUIS SOLNICK Philadelphia, PA
B.A., University of Pennsylvania
New York Hospital — Cornell Medical Center,
White Plains, NY

LYNN SOLOMON Elkins Park, PA
B.A., University of Pennsylvania
Episcopal Hospital, Philadelphia, PA

ROBERT ASHER SOLOMON Feasterville, PA
B.S., Muhlenberg College
Hahnemann University Hospital, Philadelphia, PA

JANE ANN SPITKO Maple Glen, PA
B.S., Ursinus College
M.S., Philadelphia College of Pharmacy and Science
Chestnut Hill Hospital, Philadelphia, PA

PAUL N. STROHMAYER Allentown, PA
B.S., The Pennsylvania State University
Chicago Medical School, North Chicago, IL

KEITH ROBERT SUPERDOCK Bloomsburg, PA
summa cum laude
AOA
B.S., The Pennsylvania State University
Duke University Medical Center, Durham, NC

JOANNE SWIFT Philadelphia, PA
magna cum laude
AOA
B.A., LaSalle College
Medical Center of Delaware, Newark, DE

LEONARD TACHMES Miami Beach, FL
B.S., Duke University
Mary Imogene Bassett Hospital, Cooperstown, NY

WILLIAM SCOTT TADDONIO Wallingford, PA
B.S., Saint Joseph's University
M.S., Drexel University
Thomas Jefferson University Hospital, Philadelphia, PA

THOMAS KING TANDY, III Newark, DE
B.S., Duke University
Portsmouth Naval Hospital, Portsmouth, VA

H. THOMAS TEMPLE McKeesport, PA
AOA
A.B., Harvard University
Walter Reed Army Medical Center, Washington, DC

STEPHEN THATCHER TINGLEY Wallingford, PA
A.B., Susquehanna University
The Williamsport Hospital, Williamsport, PA

PATRICE M. LAMB TRAUFFER Cheltenham, PA
summa cum laude
B.A., LaSalle College
Thomas Jefferson University Hospital, Philadelphia, PA

GEORGE PAUL VALKO Dunlo, PA
B.S., Juniata College
M.S., Rutgers University
Thomas Jefferson University Hospital, Philadelphia, PA

PHILIP JEFFERSON VOSS Gettysburg, PA
B.A., University of New Hampshire
Worcester Memorial Hospital, Worcester, MA

J. KENT LYNWOOD WAGNER Jonestown, PA
B.A., Shippensburg State College
The Bryn Mawr Hospital, Bryn Mawr, PA

STEPHEN FREDERICK WAWROSE Huntingdon, PA
AOA
A.B., Harvard University
University of California — San Francisco,
San Francisco, CA

DAVID STEVEN WEINMAN Wilmington, DE
cum laude
AOA
B.A., Williams College
North Carolina Memorial Hospital, Chapel Hill, NC

JEFFREY ALAN WELGOSS Depew, NY
B.S., The Pennsylvania State University
St. Barnabas Medical Center, Livingston, NJ

WILLIAM JAMES WEST, JR. Carlisle, PA
B.S., Juniata College
Lankenau Hospital, Philadelphia, PA

SCOTT LAURENCE WIESEN Dover, DE
B.S., Washington University in St. Louis
Jackson Memorial Hospital, Miami, FL

DOUGLASS KENYA WILLIAMS Los Angeles, CA
B.S., Pacific Lutheran University
Mercy Catholic Medical Center, Darby, PA

MARK LEE WILLIAMS Pittsburgh, PA
A.B., Dartmouth College
Letterman Army Medical Center, San Francisco, CA

JOANNE KATHLEEN WILLS Ambler, PA
B.S., Georgetown University
Providence Hospital, Washington, DC

REBECCA JOANNE WINHELD Troy, PA
B.S., The Pennsylvania State University
St. Luke's Hospital, Bethlehem, PA

Paul Bennett Zukoff Wilmington, DE
B.A., University of Pennsylvania
Overlook Hospital, Summit, NJ

REBECCA ANN ZUURBIER Catasauqua, PA
B.A., Muhlenberg College
Georgetown University Hospital, Washington, DC

CANDIDATE FOR THE DEGREE OF MASTER OF SCIENCE

ROBERT BENEDICT RAFFA (Toxicology) Norristown, PA
Thesis Title: "Reversible Inhibition of Acetylcholine Contracture of Molluscan Smooth Muscle by Heavy Metals: Correlation of Calcium Displacement."

MARTIN JAMES SMITH (Pharmacology) Kingston, PA
Thesis Title: "In Vivo Platelet Adhesion in New Zealand White Rabbits After Four and Eight Weeks of Alloxan Diabetes."

THOMAS BRENT WARREN (Physiology) Paoli, PA
Thesis Title: "An Investigation into Smooth and Skeletal Muscle Energetics Using 2, 3-Butanedione Monoxime."

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

BARBARA ANNE REICHWEIN Allentown, PA JANE LOUISE MINNICH SHINKAROW Berlin, NJ

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.

AOA — Alpha Omega Alpha Honor Medical Society

AWARDS and PRIZES

Awarded at Class Day Exercises on Thursday, June 5, 1986

FACULTY AWARDS

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

BASIC SCIENCES: GEORGE CURWIN BRAINARD, B.A., M.A., Ph.D., Associate Professor of Neurology

CLINICAL SCIENCES: WILLIS CROCKER MADDREY, B.S., M.D., The Magee Professor of Medicine and Chairman of the Department

Burlington Northern Foundation Faculty Achievement Award. For excellence in teaching and research productivity.

BASIC SCIENCES: MARION JOYCE SIEGMAN, B.A., Ph.D., Professor of Physiology

CLINICAL SCIENCES: LAIRD G. JACKSON, B.A., M.D., Professor of Medicine and Director of Division of Genetics (Medical)

AWARDS TO GRADUATING STUDENTS

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

WILLIAM BRADFORD CARTER, (honorable mention: ERIC CARL LUNDGREN)

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

GEORGE PETER CAUTILLI, (honorable mention: MARK CABOT GILLESPIE)

The Edward J. Moore Memorial Prize in Pediatrics.

CYNTHIA WUEBKER DeLAGO, (honorable mention: SHEILA SERVETZ GROSSMAN)

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.

KEITH ROBERT SUPERDOCK, (honorable mention: KENT EDWARD KESTER)

The Carroll R. Mullen Memorial Prize in Ophthalmology.

DAVID ROBERT HAAS, (honorable mention: BRUCE JOHN KEYSER)

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

PATRICIA ANNE MCCORMACK, (honorable mention: GLEN DOUGLAS LYBBERT)

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., Professor Emeritus of Psychiatry.

REBECCA ANN ZUURBIER, (honorable mention: BARBARA JEANNE HOWE and KENT EDWARD KESTER)

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

JOANNE SWIFT, (honorable mention: PATRICE M. LAMB TRAUFFER)

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

ELIAV BARR, (honorable mention: MELANIE ANN FARRELL)

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

JOSEPH MARTIN GIBSON, (honorable mention: STUART MICHAEL BOREEN)

The Philip J. Hodes Prize in Radiology.

VALERIE THERESA GRECO-HUNT, (honorable mention: MARIO DEGUCHI)

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

BRIAN SCOTT SMITH, (honorable mention: HENRY TSE-WEI LING)

The Leopold Goldstein Memorial Prize in Obstetrics and Gynecology, sponsored by Mrs. Leopold Goldstein and daughters in memory of Leopold Goldstein, M.D., for the highest average in Obstetrics and Gynecology.

PATRICE M. LAMB TRAUFFER, (honorable mention: JOANNE SWIFT)

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

RICHARD H. LONG, Jr., (honorable mention: KENNETH BER MARGULIES)

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

SETH MARTIN JONES, (honorable mention: THOMAS CARL MUELLER)

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.

DEBORAH ALICE SNYDERMAN, (honorable mention: KATHLEEN HEIM-RIVERS)

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.

GORDON ROBERTS McDEVITT, Jr., (honorable mention: REBECCA ANN ZUURBIER)

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.

PAUL JOSEPH FISCH, (honorable mention: JAMES LYNCH BAILEY)

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.

MICHAEL GRASSO, III, (honorable mention: SCOTT LANCE COMITER)

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 advisory of the Society for excellence in Internal Medicine and outstanding contributions to the Society.

SARAH ELIZABETH KOHL, (honorable mention: JoANNE KATHLEEN WILLS)

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.

MARK LEE WILLIAMS, (honorable mention: JOHN A. SNELL)

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.

MICHAEL GRASSO, III, and JOSEPH KEITH IZES, (honorable mention: ANDREA BERNICE MAGEN)

The Annie Simpson General Medicine Prize to be awarded to the medical student who shall receive the best general average in general medicine.

ELIAV BARR, (honorable mention: MELANIE ANN FARRELL)

The Annie Simpson Lung Disease Prize to be awarded to the medical student who shall receive the best general average in lung diseases.

MARIE CARMELA McGETTIGAN, (honorable mention: JOSEPH MARTIN GIBSON)

The William F. Kellow Prize is to be awarded to the student who most closely exemplifies the attributes of the ideal physician. Sponsored by family and friends in memory of William F. Kellow, M.D., Dean and Vice President of Jefferson Medical College from 1967 to 1981.

PATTI JO SCHAEBLER BROWN, (honorable mention: STEPHEN FREDERICK WAWROSE)

The William C. Davis Prize is awarded to a senior who will pursue a career in Emergency Medicine. Sponsored by Mrs. Charlotte Davis in memory of her son William C. Davis, M.D., an alumnus of Jefferson Medical College.

BERNARD LUIS LOPEZ, (honorable mention: JOHN CHARLES BEYER)

The Arnold R. Weitz Memorial Prize in Hematology is awarded to a senior medical student for outstanding aptitude and interest in Hematology. Sponsored by family and friends in memory of Arnold R. Weitz, M.D.

JOHN FULGINITI, III

The J. Woodrow Savacool Prize in Medical Ethics awarded to a senior medical student who embodies the traditional ideal of "caring for people." Sponsored by a Committee of Friends and Colleagues of J. Woodrow Savacool, M.D., an alumnus and former member of the medical faculty of Jefferson Medical College.

WILLIAM VINCENT MARTINEZ, Jr. and BRIAN SCOTT SMITH,

(honorable mention: JOANNE SWIFT)

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

WILLIAM VINCENT MARTINEZ, Jr., (honorable mention: HENRY TSE-WEI LING)

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

MELANIE ANN FARRELL
VALERIE THERESA GRECO-HUNT
KATHLEEN HEIM-RIVERS

BARBARA JEANNE HOWE
JOANNE SWIFT
PATRICE M. LAMB TRAUFFER

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

KATHLEEN HEIM-RIVERS

MARK ALAN SHELLY

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

PATRICE M. LAMB TRAUFFER

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

JOSEPH JEFFERY BAKA KEITH ROBERT SUPERDOCK JOANNE SWIFT

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

REBECCA ANN ZUURBIER

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

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

THE UNIVERSITY MACE

The Thomas Jefferson University Mace, carried for the first time in these 1986 Commencement Ceremonies by Grand Marshal Robert J. Mandle, Ph.D., Professor of Microbiology, was designed by Howard Serlick, member of the Guild of Mastercraftsmen, Winterthur Scholar, and Chief Conservator (Gilding) of the Historical Society of Pennsylvania. It was crafted by silversmith Eugene Zweigle and woodturner Michael Copeland.

The four-foot long, fourteen-pound Mace is made of ebony highlighted with lapis lazuli to reflect Jefferson's colors (black and blue). It features a miniature of Henry Mitchell's sculpture, *The Winged Ox*, symbol of Saint Luke the Physician, the original of which stands beside the Scott Building on Walnut Street. The miniature was cast in silver by Mister Zweigle, who also fabricated the University seal, the profile of Thomas Jefferson, mounted at the base of the staff. The J. E. Caldwell Company coordinated the project.

Mister Mitchell's original statue of *The Winged Ox*, adopted by the University in 1976 as its symbol of clinical excellence, is mounted on a column containing the names of fifty medical scientists who have most advanced the art of healing. It also reflects the historical evolution of Thomas Jefferson University from its beginnings as Jefferson Medical College in 1824 to its current status as an academic health center comprising the Medical College, the College of Allied Health Sciences, the College of Graduate Studies, and the Jefferson Hospital.

The Mace, a grand emblem of the University's heritage, will be carried at the head of all formal academic processions.

DOCTOR OF LETTERS — HILARY KOPROWSKI

Hilary Koprowski was born in Warsaw, Poland. Following graduation from the University of Warsaw, he became a member of the Rockefeller Foundation research team that was studying the mosquito-borne disease, yellow fever, in Brazil. Four years later, he joined the Lederle Laboratories where he continued his research on viral diseases. He pioneered research in an oral vaccine for poliomyelitis before the Sabin vaccine became available. His belief in the efficacy of this vaccine was so strong that his two sons were among the first to whom the experimental vaccine was given.

The Wistar Institute of Anatomy and Biology lured him to Philadelphia in 1957. He sparked a growth in the research programs of this venerable Philadelphia institution and made it the center for research on many viral-caused diseases of humans. The work that he has directed has led to an international reputation in basic virology and immunology for the Wistar Institute as well as himself. One of his most noteworthy accomplishments has been his research in rabies which has resulted in the first proven effective vaccine that can prevent this dread disease in people bitten by rabid animals.

Today, at an age when most scholars would have retired to less strenuous pursuits, Doctor Koprowski continues to be an acknowledged leader in the field of rabies research. In addition, he is successful in competing for and obtaining funding to continue his work in this and other areas of research. He is the principal investigator in productive research programs involving studies on multiple sclerosis, basic virology and immunology.

His outstanding contributions to viral research have resulted in his being asked to serve as a consultant to our government and foreign nations as well. He is a member of many prestigious scientific societies. He has been honored by membership in the American Academy of Arts and Sciences, the National Academy of Sciences and as a foreign member of the Yugoslav Academy of Arts and Sciences. In addition, he has received five honorary degrees, including those from Uppsala and Helsinki Universities, as well as our neighboring Widener College. Many other national and international prizes and honors have been awarded to him.

As abundant and consuming as his scientific life is, Doctor Koprowski has maintained his interest in music and is a concert-quality pianist and interpreter of the works of Chopin. He is married to Irena Koprowska who is also a physician. They have two sons who have followed their parents' example and are now practicing medicine.

DOCTOR OF SCIENCE — CAROL M. McCARTHY

Carol M. McCarthy, Ph.D., assumed the position of President of the American Hospital Association (AHA) this June. Among her activities as head of this important Chicago-based national association, Doctor McCarthy represents the nation's hospitals and presents their needs and concerns in federal legislative and regulatory forums. She and her organization work with and facilitate communication between numerous health-related agencies, professional associations, and business coalitions.

Previously, in Philadelphia, Doctor McCarthy served for seven years, beginning in 1978, as President of the Delaware Valley Hospital Council. During this period, she was involved in the founding of, and became first President of, the Delaware Valley Health Education and Research Foundation, which serves not-for-profit hospitals in southeastern Pennsylvania and southern New Jersey. She was formerly Executive Vice President and Chief Executive Officer of the association of hospitals on Long Island in New York State. Prior to her current position, Doctor McCarthy was President of the Massachusetts Hospital Association.

Doctor McCarthy's distinguished academic achievements include a law degree earned from Temple University School of Law and a Doctor of Philosophy degree, with concentration in health care economics, from New York University in 1978. She received her Bachelor of Arts degree at Trinity College and her Master of Science degree in Health Services Administration at State University of New York, where she was valedictorian in 1974.

Disseminating information to the public and professionals on health care issues and trends has become an increasingly important function of the associations that Doctor McCarthy has led. She, herself, is an authority in the areas of health care administration, planning and finance. As author of numerous articles on health and hospital services and a contributing author to *Health Care in the United States*, a textbook on the health care delivery system, she continues to benefit the field with her expertise.

Doctor McCarthy is a member of the Council for Medical Affairs and a member of the board of directors of the National Center for Health Education. Her insight into the implications of regulation aimed at controlling health care competition and costs will influence decisions on a national scale.

Carol McCarthy has worked in health care for over twenty years and is now an essential leader, advocate, and representative of the field.

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 in 1895, 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. Revisions to the code have occurred from time to time.

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. The majority of gowns are black but a number of institutions have adopted other colors to identify special programs or groups within the institution.

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 most commonly worn; six-sided tams of various colors may be used.

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

white	Arts and Letters	green	Medicine
tan	Business	apricot	Nursing
lilac	Dentistry	dark blue	Philosophy
light blue	Education	salmon pink	Public Health
purple	Law	golden yellow	Science

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

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

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, Doctor 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, Professor Emeritus 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.

