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1985 Commencement for Jefferson Medical College and College of Graduate Studies

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161ST
COMMENCEMENT



*Jefferson Medical College
College of Graduate Studies
of
Thomas Jefferson University
Philadelphia, Pennsylvania
1824-1985*

*Friday, June Seventh
Nineteen Hundred and Eighty-Five
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

THE NATIONAL ANTHEM

INVOCATION THE REVEREND EDWARD C. BRADLEY, S.J.
Old St. Joseph's Church

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 JOSEPH S. GONNELLA, *Dean and Vice President*
Jefferson Medical College

The Oath of Hippocrates WARREN R. LANG, *The Gonzalo E. Aponte Professor*
of Pathology and Chairman of the Department
Jefferson Medical College

Master of Science
Presented by DEAN SAUKKONEN

CONFERRING OF HONORARY DEGREES PRESIDENT BLUEMLE

WILLIAM B. BEAN, *Doctor of Humane Letters*
Presented by: FREDERICK B. WAGNER, JR., *The Grace Revere Osler*
Professor of Surgery
Jefferson Medical College

W. PAUL HAVENS, JR., *Doctor of Science*
Presented by: JOSEPH F. RODGERS, *Clinical Associate Professor of Medicine*
and Associate Dean
Jefferson Medical College

BENEDICTION REVEREND BRADLEY

RECESSIONAL Pomp and Circumstance Elgar

W. ERNEST WELLS, *Organist*

Grand Marshal
ROBERT J. MANDLE

Faculty Marshals
LORETTA P. FINNEGAN BRUCE E. JARRELL ARTHUR R. OWENS JAMES H. ROBINSON RICHARD R. SCHMIDT

Student Marshals
REBECCA A. ZUURBIER
Jefferson Medical College

DAVID L. GLICK
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

- JOSE R. BARRUECO (Pharmacology) Harrison, NJ
Thesis Title: "Transport and Distribution of Doxorubicin in the Rat Heart."
- LEE MICHAEL BLUM (Pharmacology) Philadelphia, PA
Thesis Title: "A Correlation Between Benzo(a)pyrene Tumorigenesis and a Cell Mediated Immune Response."
- ERIC A. BOWER (Pharmacology) Woodstown, NJ
Thesis Title: "IMR-90 Fibroblasts as a Model for the Study of Chemical Carcinogens and Tumor Promoters *in vitro*."
- SUSAN BETH DILLON (Microbiology) Seaford, NY
Thesis Title: "Functional Properties of Lymphocytes Isolated from Mouse Small Intestinal Epithelium."
- THOMAS NICHOLAS FERRARO (Pharmacology) Norwood, PA
Thesis Title: "Amino Acids and Related Amino Compounds in Human Cerebrospinal Fluid: Evaluation of an Approach for Studying Central Nervous System Disorders."
- SANDRA ZOFIA PERKOWSKI (Physiology) Los Angeles, CA
Thesis Title: "Eicosanoids and Superoxide Anions as Mediators of Complement-Initiated Acute Lung Injury."
- M. MICHELE PISANO (Anatomy) Rosemont, PA
Thesis Title: "Demonstration of B-Adrenergic Receptors and Catecholamine-Mediated Effects on Cell Proliferation in Embryonic Palatal Tissue."
- MICHAEL FREDRIC RIEDERS (Pharmacology) Rushland, PA
Thesis Title: "On the Mechanism of Trimethyltin Neuronal Toxicity — A Longitudinal Study of the Correlation Between Physiological, Behavioral and Neuropathological Sequelae and Trimethyltin Specific Brain and Concentration Changes."
- ANNETTE LOUISE ROTHERMEL (Microbiology) Harrisburg, PA
Thesis Title: "Induction and Activities of Two Distinct Suppressor T Cell Populations in Mice Primed with Sheep Erythrocytes."
- CARMELLA IRENE TELLONE (Anatomy) Philadelphia, PA
Thesis Title: "The Role of Proteoglycans in the Onset of Calcifications."
- DAVID ROSS VAN WAGONER (Pharmacology) Philadelphia, PA
Thesis Title: "Biophysical Chemistry of the Calcium Channel in Barnacle Muscle."

CANDIDATES FOR THE DEGREE OF DOCTOR OF MEDICINE

- WILLIAM JEFFREY ALBRIGHT Highspire, PA
B.A., Gettysburg College
M.Ps.Sc., The Pennsylvania State University
Harrisburg Hospital, Harrisburg, PA
- AMY JOANNE ALLEN Bryn Mawr, PA
Cum Laude
B.A., Duke University
Thomas Jefferson University Hospital, Philadelphia, PA
- DAVID SIGMUND ALTMAN Philadelphia, PA
B.A., Temple University
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- THOMAS JOSEPH AMRICK Allentown, PA
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- ALAN SCOT BASEMAN Philadelphia, PA
B.A., LaSalle College
Montgomery Family Practice Center, Norristown, PA
- RICHARD D. BAYLOR Muncy, PA
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Sacred Heart Hospital, Allentown, PA
- JOSEPH MARTIN BELGRADE Wilmington, DE
B.A., University of Delaware
Wilmington Medical Center, Wilmington, DE
- PAULA RICKARD BENNETT Honesdale, PA
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- PAUL J. BERLIN Wilmington, DE
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Long Island Jewish Hillside Medical Center,
New Hyde Park, NY

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Geisinger Medical Center, Danville, PA
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Latrobe Area Hospital, Latrobe, PA
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B.S., Villanova University
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B.A., LaSalle College
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- GERMAINE MARY CAMISHION Cinnaminson, NJ
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B.S., The Pennsylvania State University
Naval Regional Medical Center, Camp Pendleton, CA

GREGORY HENRY SCIMECA Willingboro, NJ
A.B., Columbia University
Cooper Hospital-University Medical Center, Camden, NJ

RICHARD DAVID SCOTT Oreland, PA
B.S., The Pennsylvania State University
Thomas Jefferson University Hospital, Philadelphia, PA

LINDA ANDREA SEBASTIAN Scranton, PA
Cum Laude
AOA
B.S., University of Scranton
Strong Memorial Hospital, Rochester, NY

CAROL LEE SEIFERT Greensburg, PA
B.A., Washington and Jefferson College
St. Francis Medical Center, Pittsburgh, PA

DAVID STUART SERES Portland, OR
B.S., University of Maryland
Beth Israel Medical Center, New York, NY

ROBERT KEITH SIGAL Easton, PA
A.B., Harvard College
Harbor-UCLA Medical Center, Torrance, CA

SHARON ANN SKIBBER Scranton, PA
B.S., University of Scranton
Presbyterian-University of Pennsylvania Medical Center,
Philadelphia, PA

PATRICIA LYNN SKYPALA Philadelphia, PA
B.S., Chestnut Hill College
Thomas Jefferson University Hospital, Philadelphia, PA

GRACE GORACCI SLIMAK Woodbury, NJ
B.A., Sweetbriar College
Thomas Jefferson University Hospital, Philadelphia, PA

SPURGEON SCOTT SMITH Winooski, VT
B.A., University of Vermont
Berkshire Medical Center, Pittsfield, MA

THOMAS CHANDLER SMITH Philadelphia, PA
B.S., The Pennsylvania State University
Geisinger Medical Center, Danville, PA

JEFFREY CURTIS SNYDER Lehighton, PA
B.A., University of Delaware
Allentown Affiliated Hospitals, Allentown, PA

GREGG ALBERT SONSINI Drexel Hill, PA
B.S., Saint Joseph's University
Thomas Jefferson University Hospital, Philadelphia, PA

JAY CHARLES SOURBEER Largo, FL
AOA
B.A., Duke University
Charleston Naval Hospital, Charleston, SC

RICHARD HARVEY SPIEGEL Huntingdon Valley, PA
B.S., The Pennsylvania State University
Youngstown Hospital Association, Youngstown, OH

JAMES LAWRENCE STEFANELLI Exeter, PA
B.S., University of Scranton
Thomas Jefferson University Hospital, Philadelphia, PA

DAVID ERIC STERN Waynesboro, PA
B.S., Houghton College
Mercy Catholic Medical Center, Darby, PA

DEBORA LYNN STERN Greenville, PA
B.S., John Carroll University
Mercy Catholic Medical Center, Darby, PA

AMY CAROL STOLOFF Elkins Park, PA
A.B., Princeton University
University of California Hospitals, San Francisco, CA

CHARLES AUGUSTINE SYMS, III Huntingdon Valley, PA
B.A., Villanova University
Presbyterian-University of Pennsylvania Medical Center,
Philadelphia, PA

JOSEPH BRIAN SZGALSKY Philadelphia, PA
B.S., Saint Joseph's University
Underwood Memorial Hospital, Woodbury, NJ

LOUIS JOSEPH TEDESCO Avoca, PA
B.S., University of Scranton
United Health and Hospital Service, Kingston, PA

MICHAEL SON TRAN Philadelphia, PA
B.S., Temple University
The Bryn Mawr Hospital, Bryn Mawr, PA

NHO VAN TRAN State College, PA
B.S., The Pennsylvania State University
Allentown Affiliated Hospitals, Allentown, PA

RONALD PAUL TRAVITZ Grantville, PA
B.S., Indiana University of Pennsylvania
Geisinger Medical Center, Danville, PA

KENNETH DONALD TRUSCOTT, JR. Oreland, PA
B.S., The Pennsylvania State University
Sacred Heart Hospital, Allentown, PA

MARK REIDER VERSLAND Sewell, NJ
B.A., Houghton College
University of Connecticut School of Medicine,
Farmington, CT

BRENT JOSEPH WAGNER Collegetown, PA
B.A., Lafayette College
Roanoke Memorial Hospital, Roanoke, VA

JEFFREY L. WAINSTEIN Philadelphia, PA
Cum Laude
AOA
B.S., The Pennsylvania State University
University of Illinois Emergency Medicine Residence,
Chicago, IL

ROBERT BELL WALKER West Chester, PA
B.S., Indiana University of Pennsylvania
Jacksonville Health Education Program, Jacksonville, FL

LAWRENCE CHENG MIN WANG Princeton Junction, NJ
B.S., The Pennsylvania State University
Mercy Catholic Medical Center, Darby, PA

SUSAN BULLITT WARD Ambler, PA
B.S., Delaware Valley College of Science and Agriculture
The Bryn Mawr Hospital, Bryn Mawr, PA

AMY LU WEAVER Pennsylvania Furnace, PA
B.S., The Pennsylvania State University
Geisinger Medical Center, Danville, PA

SUSAN LOUISE WEBER Indiana, PA
B.S., Indiana University of Pennsylvania
Allegheny General Hospital, Pittsburgh, PA

BARRY KEITH WEIN Wilmington, DE
B.A., Duke University
Riverside Hospital, Newport News, VA

JOHN FRANCIS WELKIE Middletown, PA
B.S., The Pennsylvania State University
Medical College of Ohio, Toledo, OH

KATHERINE KOWAL WELTY Beaver Falls, PA
B.S., The Pennsylvania State University
Latrobe Area Hospital, Latrobe, PA

DONALD MARK WHITING Altoona, PA
A.B., Grinnell College
M.S., Georgetown University
Geisinger Medical Center, Danville, PA

RICHARD MICHAEL WILK Wilmington, DE
B.A., Emory University
New England Medical Center Hospital, Boston, MA

JEFFREY ROBERT WINKLER Philadelphia, PA
B.A., Temple University
Mercy Catholic Medical Center, Darby, PA

HENRY GEORGE YAVOREK, JR. Dickson City, PA
B.S., University of Scranton
Hamot Medical Center, Erie, PA

BETH ANN ZEEMAN Allentown, PA
B.A., Colorado College
Boston City Hospital, Boston, MA

BURKHARDT HENRY ZORN Allentown, PA
B.S., U.S. Military Academy
Mercy Catholic Medical Center, Darby, PA

ROBERT HAMILTON ZUCH Tucson, AZ
B.S., University of Arizona
University of California, Irvine College of Medicine,
Irvine, CA

MIRIAM S. ZUCKER Malvern, PA
B.S., The Pennsylvania State University
University of Iowa Hospitals and Clinics, Iowa City, IA

CANDIDATE FOR THE DEGREE OF MASTER OF SCIENCE

GAIL YANDER (Toxicology) Voorhees, NJ
Thesis Title: "Tissue Culture as a Technique to Assess Cellular Toxicity."

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

JUDY Y. EARL Voorhees, NJ
LINDA BENNINGTON HANN Bangor, ME
BARBARA ELIZABETH HOFFMANN Walpole, MA
HARRY CHARLES HUSS, JR. Downingtown, PA

DAVID WALKER LANDER Berwyn, PA
INGRID A. MUNLEY Marlton, NJ
MARYANN WEIDNER Fleetwood, PA
JIUNN-JONG WU Taipei, Taiwan

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.

AWARDS and PRIZES

Awarded at Class Day Exercises on Thursday, June 6, 1985

FACULTY AWARDS

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

BASIC SCIENCES: CHARLES SCOTT OWEN, B.S., M.S., Ph.D., Associate Professor of Biochemistry
CLINICAL SCIENCES: ROBERT JAY SCHWARTZMAN, B.A., M.D., Professor of Neurology 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.

JAMES JOHN BARAN, (honorable mention: ROBERT KEITH SIGAL)

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

KENNETH LYNN CHERRY, Jr., (honorable mention: JOHN ALBERT MARTIN, Jr.)

The Edward J. Moore Memorial Prize in Pediatrics.

ANDREW LEE GILMAN, (honorable mention: BRADLEY ALLEN GEORGE)

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.

MARY ELIZABETH RUECKEL, (honorable mention: GEORGE PHILIP)

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

HARSHA VINAYAK GIRDHAR-GOPAL

The Carroll R. Mullen Memorial Prize in Ophthalmology.

MARLON TROTTNER MAUS, (honorable mention: JACK STEVEN G. DAUBERT and SHARON ANN SKIBBER)

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.

JEFFREY L. WAINSTEIN, (honorable mention: MARY STULL GIBBONS)

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.

DAVID LEE FINK, (honorable mention: DEBORAH ANN DELIYANNIDES)

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

KENNETH LYNN CHERRY, Jr., (honorable mention: SUMANTH DAMODAR PRABHU)

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

KENNETH JAMES ARNOLD, (honorable mention: STEVEN HAROLD KALCHMAN)

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

JEFFREY ROBERT WINKLER, (honorable mention: JOHN JOSEPH KUCHAR, Jr.)

The Philip J. Hodes Prize in Radiology.

ELLIS MICHAEL HARNED, (honorable mention: STEVEN HAROLD KALCHMAN)

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.

LEE CHARLES EDMONDS, (honorable mention: MARY ELIZABETH RUECKEL)

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.

CYNTHIA MARIE COUGHLIN, (honorable mention: MARY STULL GIBBONS)

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

GAYLE ANN HOPPER, (honorable mention: JILL EILEEN JACOBS)

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

DAN JONATHAN GZESH

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

JANE WALKER MARONEY, (honorable mention: MARK JEFFREY HUMMEL)

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.

MARK DeLAURENTIS, (honorable mention: LAWRENCE CHENG MIN WANG)

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.

AMIT GOYAL, (honorable mention: JUSSI JAAKKO SAUKKONEN)

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.

JAMES LAWRENCE STEFANELLI, (honorable mention: JOSEPH SAMUEL DANKOFF)

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.

TRACY ANDREW GLAUSER, (honorable mention: JANÉ WALKER MARONEY)

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.

MICHAEL JOSEPH COLUMBUS, (honorable mention: NHO VAN TRAN)

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.

WENDY ROBIN MAILMAN, (honorable mention: DANIEL THOMAS POMPEY, Jr.)

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.

LARRY J. DASHOW, (honorable mention: RICHARD DANIEL DAVID and TRACY ANDREW GLAUSER)

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

DONALD THOMAS NARDONE

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

JOSEPH CHARLES GOLDSCHMIDT, Jr.

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.

MARY ELIZABETH RUECKEL, (honorable mention: JUSSI JAAKKO SAUKKONEN)

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.

KATHRYN ANITA REIHARD, (honorable mention: ROBERT BISHOP ROWLAND, Jr.)

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.

THOMAS CHANDLER SMITH

The J. Woodrow Savacool Prize in Medical Ethics will be awarded to the senior medical student who embodies the traditional ideal of "caring for people." Sponsored by a committee of friends and colleagues of Dr. J. Woodrow Savacool, an alumnus of Jefferson Medical College. The first recipient of this award will be announced in 1986.

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

PAULA RICKARD BENNETT, (honorable mention: THOMAS CHARLES JACOB, Jr.)

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

AMY JOANNE ALLEN
MARY ELIZABETH RUECKEL

LAUREN MARIE BOOS
LINDA ANDREA SEBASTIAN

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

NHO VAN TRAN

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

DAVID B. CHERNOFF, MITCHEL KRUGER, JUSSI JAAKKO SAUKKONEN

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

TRACY ANDREW GLAUSER

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

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.

DOCTOR OF HUMANE LETTERS—WILLIAM BENNETT BEAN

William Bennett Bean was born in Manila, the Philippines, in 1909. He received his Bachelor of Arts degree in 1932 and his Doctor of Medicine degree in 1935 from the University of Virginia, Charlottesville, where his father was Professor of Anatomy. During the next three years he took post-graduate training at Johns Hopkins, Boston City, and Cincinnati General Hospitals. His scholarship was manifested by proficiency in Latin and Greek and election to the Phi Beta Kappa and Alpha Omega Alpha honor societies.

Most notable in Doctor Bean's academic career was his chairmanship of the Department of Internal Medicine at the University of Iowa College of Medicine from 1948 to 1970, during which time he also served as Physician-in-Chief at the University Hospitals. He was made Sir William Osler Professor of Medicine in 1970. From 1974 to 1980 he was Director of the Institute for the Medical Humanities and Kempner Professor of the Humanities in Medicine at the University of Texas Medical Branch, Galveston.

In World War II, Doctor Bean held the rank of Colonel, received a Commendation Ribbon, and later served as consultant to the Surgeon General of the Army on nutrition.

The research interests of Doctor Bean have been in nutrition, rare diseases, and myocardial infarction. His numerous articles on medical history have especially highlighted the lives of Sir William Osler, Walter Reed, and Robley Dunglison, all of whom are directly or indirectly related to Jefferson Medical College.

The literary contributions of Doctor Bean include authorship of more than five hundred papers, one hundred and fifteen books or book chapters, approximately seven hundred reviews (mostly in the *Archives of Internal Medicine*), and eight hundred speeches, one of which was the Hobart Amory Hare Oration at Jefferson on "Medicine in Philadelphia in the 19th Century."

Doctor Bean has been chief editor, consulting editor or on the editorial advisory boards of at least forty publications, including the *Journal of the American Medical Association*, *Archives of Internal Medicine*, *Stedman's Medical Dictionary*, and the *Encyclopedia Britannica*. He belongs to at least eighty organizations, local, national and international, in many of which he was a founder, president, or honorary fellow.

DOCTOR OF SCIENCE—W. PAUL HAVENS, JR.

W. Paul Havens, Jr. was born in Farmingdale, New Jersey on December 20, 1911. He received both his baccalaureate and medical degrees from Harvard and interned at the Lankenau Hospital in Philadelphia. He was the first resident in Internal Medicine at the Jefferson Medical College Hospital, after which he was honored with a fellowship at the Rockefeller Institute for Medical Research in New York.

Doctor Havens served in the United States Army Medical Corps. from 1942 to 1946. It was there that he gained international recognition for his research on the etiology of viral hepatitis. He was among the first to realize that there were different types of hepatitis, each caused by a different virus, and he directed his efforts toward the isolation and cultivation of these agents. In 1946, he was awarded the Army Commendation Ribbon for research in viral hepatitis.

Doctor Havens then returned to Jefferson to continue his research, during which time he also distinguished himself both as clinician and teacher, rising to the rank of Professor of Medicine and Microbiology. He served as Attending Physician and Chief of Infectious Diseases at the Jefferson Medical College Hospital and at the Pennsylvania Hospital. Some of his many honors include Consultant to the Surgeon General, member of the Armed Forces Epidemiologic Board on Liver, Viral and Rickettsial Diseases, and member of the World Health Organization on Viral Hepatitis.

He has made numerous contributions to the medical literature on hepatology and infectious disease and was editor of the *History of Internal Medicine in World War II*.

Doctor Havens holds membership in many prestigious medical societies and has been awarded an honorary degree of Doctor of Science by Ursinus College and an honorary Professor of Medicine by the University of Chile.

Doctor Havens is married to the former Ida Markle Hessenbruch and is the father of five children who have attained prominence in the worlds of business and nursing.

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, 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.

