

6-7-1996

1996 Commencement for Jefferson Medical College and College of Graduate Studies

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172ND
COMMENCEMENT



Jefferson Medical College
College of Graduate Studies

of

Thomas Jefferson University

Philadelphia, Pennsylvania

1824-1996

Friday, June Seventh
Nineteen Hundred and Ninety-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.....	JACK FARBER, <i>Chairman</i>	
	Board of Trustees	
	Thomas Jefferson University	
THE NATIONAL ANTHEM		
INVOCATION	THE REVEREND CHARLES L. CURRIE	
	Rector of the Jesuit Community at	
	Saint Joseph's University	
CONVOCATION	PAUL C. BRUCKER, <i>President</i>	
	Thomas Jefferson University	
CONFERRING OF DEGREES IN COURSE	PRESIDENT BRUCKER	
Doctor of Philosophy		
Presented by	JUSSI J. SAUKKONEN, <i>Vice President</i>	
	<i>for Science Policy, Technology Development,</i>	
	<i>and International Affairs and Dean</i>	
	College of Graduate Studies	
Doctor of Medicine		
Presented by	JOSEPH S. GONNELLA, <i>Senior Vice President</i>	
	<i>for Academic Affairs and Dean</i>	
	Jefferson Medical College	
The Oath of Hippocrates	EDWARD H. MCGEHEE, <i>Professor of Family Medicine</i>	
	<i>and Clinical Associate Professor of Medicine</i>	
	Jefferson Medical College	
Master of Science		
Presented by	DEAN SAUKKONEN	
CONFERRING OF HONORARY DEGREES	PRESIDENT BRUCKER	
GAIL H. CASSELL, <i>Doctor of Science</i>		
Presented by	CHAIRMAN FARBER	
MANUEL VELASCO-SUAREZ, <i>Doctor of Science</i>		
Presented by	DEAN GONNELLA	
FREDERICK B. WAGNER, JR., <i>Doctor of Humane Letters</i>		
Presented by	DOCTOR TEMPLETON	
BENEDICTION.....	REVEREND CURRIE	
RECESSIONAL.....	Pomp and Circumstance.....	Elgar

THE REVEREND R. BRUCE TODD, *Organist*

Grand Marshal

R. ANTHONY CARABASI III

Faculty Marshals

BENJAMIN BACHARACH	CLARA A. CALLAHAN	JAMES B. ERDMANN	DIANE R. GILLUM
GERALD B. GRUNWALD	HOWARD L. RABINOWITZ	MARION J. SIEGMAN	MICHAEL L. SIMENHOFF
RICHARD R. SCHMIDT			

Student Marshals

DAVID H. FINKELSTEIN ROBERT V. MARTINEZ

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

CANDIDATES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

- FIZAN AHMAD ABDULLAH (Molecular Pharmacology & Structural Biology).....Philadelphia, PA
 B.S., Pennsylvania State University
 Thesis Title: "mob - 1: A Novel Mediator of ARDS."
 Thesis Advisor: R. Rabinovici, MD
- MARC ADAM BERGER (Immunology)Merrick, NY
 B.S., SUNY-Binghamton
 Thesis Title: "Immunodominant T cell Responses in the Regulation of Graft Versus Host Disease in a Murine Model of Allogeneic Bone Marrow Transplantation."
 Thesis Advisor: R. Korngold, PhD
- FLORENCIA E. BULLRICH (Genetics).....Buenos Aires, Argentina
 B.S., Temple University
 Thesis Title: "Molecular Characterization of the t(2;5) Translocation and of 13q14 Deletions in Hematopoietic Malignancies."
 Thesis Advisor: C. M. Croce, MD
- CHUN-FAN CHANG (Genetics)Tachia, Taiwan
 B.V.M., Taiwan University
 M.V.M., Taiwan University
 Thesis Title: "Molecular Regulation and Antiviral Studies on DNA Replication of Human Neurotropic JC Virus."
 Thesis Advisor: K. K. Khalili, PhD
- NANCIE NIEN-TSYR CHEN (Genetics).....Hinchu, Taiwan
 B.S., Taiwan University
 Thesis Title: "Cellular Factors Regulating the Transcription of Human Polyomavirus, JCV."
 Thesis Advisor: K. K. Khalili, PhD
- SEEMA DUTTA (Genetics)Abu-Dhabi, U.A.E.
 B.S., Sophia College for Women
 Thesis Title: "Chromatin Associated Proteins of *Ustilago maydis*."
 Thesis Advisor: E. Kmiec, PhD
- JAMES JOSEPH EARLEY, JR. (Biochemistry & Molecular Biology)Upper Darby, PA
 B.S., Villanova University
 M.S., Pennsylvania State University
 Thesis Title: "High-Throughput DNA Sequence Analysis for the Investigation of Genetic Diseases by the Candidate Gene Approach."
 Thesis Advisor: D. J. Prockop, MD, PhD
- FRANCIS CHAOCHIA FAN (Molecular Pharmacology & Structural Biology)Taipei, Taiwan
 B.S., Tamkang University
 Thesis Title: "NMR/Transferred NOE Studies of Fibrinogen Derived Peptides and Binding to Platelet Integrin IIb/IIIa."
 Thesis Advisor: I. T. Weber, PhD
- KELLY L. JORDAN (Biochemistry & Molecular Biology).....Frackville, PA
 B.S., Villanova University
 Thesis Title: "Structural and Functional Analysis of Domains Within the E2F1 Transcription Factor."
 Thesis Advisor: D. J. Hall, PhD
- VEERA KUMAR KASTURY (Genetics)Andhra Pradesh, India
 B.S., DNR College, Andhra University
 M.S., College of Science & Technology, Andhra University
 Thesis Title: "Cloning and Characterization of Loci Surrounding the Familial Renal Cell Carcinoma t(3;8) Translocation Break Point."
 Thesis Advisor: K. H. Huebner, PhD
- *EUNKYUNG ANN KAUH (Biochemistry & Molecular Biology)Bryn Mawr, PA
 B.A., University of Pennsylvania
 Thesis Title: "Isolation and Characterization of Suppressors of Camptothecin Toxicity."
 Thesis Advisor: M. A. Bjornsti, PhD

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- SUSAN HEATHER KENNEDY (Pathology & Cell Biology)Bensalem, PA
 B.S., Muhlenberg College
 Thesis Title: "Differential Regulation of Collagenase and Type 1 Collagen Gene Expression by Basic Fibroblast Growth Factor in Human Smooth Muscle Cells."
 Thesis Advisor: E. M. L. Tan, PhD
- MIMI MEIHUI LEE (Developmental Biology & Teratology)Philadelphia, PA
 B.S., Drexel University
 M.S., Temple University
 Thesis Title: "Biochemical and Functional Analysis of N-Cadherin Phosphorylation in Embryonic Chick Tissues."
 Thesis Advisor: G. B. Grunwald, PhD
- SUNMI SHARON LEE (Immunology)Melrose Park, PA
 B.S., Pennsylvania State University
 Thesis Title: "In Vivo Gene Therapy: Using Recombinant Vaccinia Virus as a Cytokine Gene Delivery System to Localized Murine Tumors."
 Thesis Advisor: E. C. Lattime, PhD
- CHI LIN (Pathology & Cell Biology)Philadelphia, PA
 B.M., Shanghai Medical University
 Thesis Title: "Regulation of Intracellular Inositol 1,4,5- Triphosphate-Sensitive Ca²⁺ Release."
 Thesis Advisor: A. P. Thomas, PhD
- FANG-JU LIN (Developmental Biology & Teratology)Taipei, Taiwan
 B.V. M., National Taiwan University
 Thesis Title: "Effect of Cadmium on Trophoblast Calcium Transport."
 Thesis Advisor: R. S. Tuan, PhD
- JOHN BATTISTA MAGGIONCALDA (Microbiology & Molecular Virology)Vineland, NJ
 B.S., Bucknell University
 Thesis Title: "Molecular and Biological Analysis of the Herpes Simplex Virus Type 1 Latency-Associated Transcript Region."
 Thesis Advisor: T. M. Block, PhD
- MAUREEN D. MEGONIGAL (Biochemistry & Molecular Biology)Vincentown, NJ
 B.S., Trenton State College
 Thesis Title: "Mutant DNA Topoisomerase I - Induced Lethality in *Saccharomyces cerevisiae*."
 Thesis Advisor: M. A. Bjornsti, PhD
- *NÚRIA MARIA PASTOR SOLER (Biochemistry & Molecular Biology)Lleida, Spain
 B.A., Bryn Mawr College
 Thesis Title: "Metachromatic Leukodystrophy Among the Navajo Indians: Study of the Arylsulfatase A Gene Mutations Present in this Population."
 Thesis Advisor: D. A. Wenger, PhD
- BRIAN J. REARDON (Biochemistry & Molecular Biology)Philadelphia, PA
 B.S., University of Alberta
 Thesis Title: "The Molecular and Genetic Characterization of the Dat1 Gene Product of *Saccharomyces cerevisiae*."
 Thesis Advisor: E. P. Winter, PhD
- HARRIS LAEB ROTMAN (Microbiology & Molecular Virology)Elkins Park, PA
 B.S., Cook College, Rutgers University
 Thesis Title: "Protective Immune Responses to Larval *Strongyloides stercoralis* in a Mouse Model."
 Thesis Advisor: D. Abraham, PhD
- ROBERT FREDERICK RYAN (Genetics)Philadelphia, PA
 B.S., Clemson University
 M.S., Medical College of Georgia
 Thesis Title: "Zinc Finger Proteins: A Study of Linker Importance, DNA, and RNA Binding Characteristics."
 Thesis Advisor: M. K. Darby, PhD
- *STEPHANIE ANN SILOS (Biochemistry & Molecular Biology)North Caldwell, NJ
 B.A., Rutgers University
 Thesis Title: "Transcriptional Regulation of Epidermal-Specific Cell Adhesion Molecules."
 Thesis Advisor: J. J. Uitto, MD, PhD

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CANDIDATES FOR THE DEGREE OF DOCTOR OF MEDICINE

- JENNIFER LYNN SWANTEK (Genetics)Whitehall, PA
 B.S., Temple University
 Thesis Title: "IGF-I Receptor Signaling in Mammalian Cell Growth & Transformation."
 Thesis Advisor: R. Baserga, MD
- JAMES MCLEAN VARNUM (Molecular Pharmacology & Structural Biology)Flourtown, PA
 B.S., University of Missouri
 M.S., University of Missouri
 Thesis Title: "Structural Analysis of Biopolymers using Nuclear Magnetic Resonance and Molecular Modeling."
 Thesis Advisor: M. W. Germann, PhD
- *ERIC JAMES WEAVER (Biochemistry & Molecular Biology) West Chester, PA
 B.A., University of Delaware
 Thesis Title: "A Molecular and Genetic Analysis of Variable Number Tandem Repeat (VNTR) Sequence
 Recombination in *Saccharomyces cerevisiae*."
 Thesis Advisors: R. G. Knowlton, PhD, and M. A. Bjornsti, PhD
- NAIBO YANG (Physiology)Tianjin, PRC
 B.S., Tianjin University
 M.S., Tianjin University
 Thesis Title: "Voltage-Activated Gating of Sodium Channels."
 Thesis Advisor: R. Horn, PhD
- KHAJA ZAFARULLAH (Biochemistry & Molecular Biology)Bombay, India
 B.S., K. C. College, University of Bombay
 M.S., T.N. Medical College, University of Bombay
 Thesis Title: "Heterologous Expression of Collagen Genes Toward a Structural and Functional Analysis of the
 Domains of Procollagen."
 Thesis Advisor: D. J. Prockop, MD, PhD

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AOA — Alpha Omega Alpha Honor Medical Society

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ZACHARIA ISAACPalisades, NY
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Los Angeles Medical Center, Los Angeles, CA

JAY C. JANVoorhees, NJ
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LORI ANN MOHRPhiladelphia, PA
DARIA GRAZIA PETRAGLIAGoshen, NY
SCOTT J. QUAILETurnersville, NJ
JOHN H. RINEHARTOrtanna, PA
CHRISTOPHER WILLIAM RIVERAToms River, NJ
LISA ANN SAULSBERYHaddon Heights, NJ
EDWARD JOHN SCHMAUSSPhiladelphia, PA
KRISTIN ANNE SCHUMACHERAthens, OH
DANA NOELLE SCHWARTZEatontown, NJ
JENNIFER LYNN SMITHReading, PA
MICHELE V. SOLECKIPhiladelphia, PA
VIRGINIA MARIE STANDFORDWilmington, DE
TONYA MARIE STILLINGS-SMITHLittleton, NH
MARK DENIS STRAUSSPhiladelphia, PA
MAUREEN ELIZABETH WINCHBangor, PA
MARINA ZARETSKYPhiladelphia, PA

Candidates for the combined B.S./M.S. Program in Physical Therapy have successfully complete all formal course work. They are also required to take two 8-week clinical internships, which will not be completed until August 30, 1996. They will receive a certificate of accomplishment at this Commencement, and upon completion of their internship requirements, the diplomas for the bachelor of science and master of science degrees.

It is the policy of the College of Graduate Studies not to award honors to graduates with the doctor of philosophy or master of science degree.

As final action cannot 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, 1996

FACULTY AWARDS

The Christian R. and Mary F. Lindback Award for Distinguished Teaching in a Basic Science.

MADHU P. KALIA, MD, PHD, MBA, Professor of Neurosurgery and Professor of Pharmacology

Dean's Award for Distinguished Teaching in a Clinical Science.

GREGORY C. KANE, MD, Assistant Professor of Medicine

Blockley-Osler/Dean's Teaching Award for Excellence in Teaching of Clinical Medicine. To a Faculty Member of a Jefferson-Affiliated Hospital.

BRUCE G. SILVER, MD, Clinical Assistant Professor of Medicine

The Leon A. Peris Memorial Award. To a member of the volunteer faculty for excellence in clinical teaching and superior patient care.

WALTER M. HERMAN, MD, Clinical Associate Professor of Medicine

AWARDS TO GRADUATING STUDENTS

Pharmacia and Upjohn Achievement Award, given to a senior medical student who shows outstanding all-around achievement in clinical proficiency.

ELISABETH ANNE EVANSHINE

The Lange Medical Publications Prize, presented to an outstanding senior student.

JENNIFER ELIZABETH KACMAR

The W. B. Saunders Company Prize, awarded to an outstanding student in the senior year.

JOHN LEANDER MASONIS

The Bernard S. And Elaine Rossman Memorial Prize, sponsored by Mrs. Rossman in memory of her husband, Dr. Bernard S. Rossman, a graduate of the Class of 1943, to one female and one male student who embody the caring, compassionate qualities that distinguish the finest primary care clinician.

KIRK ALAN MILHOAN and KIMBERLIE ANNE NEAL

The E. Harold Hinman Memorial Prize, for extraordinary interest and accomplishment in Family Medicine, sponsored by family and friends in memory of E. Harold Hinman, PhD, MD, MPH, Professor Emeritus of Preventive Medicine.

KRISTIN MARGARET LENGLE (honorable mention: E. ANDERS KOLB)

The Clinical Surgery Prize, for general excellence in clinical surgery, in memory of Francis Torrens Stewart, MD, Professor of Clinical Surgery, 1910-1920.

GARY A. TUMA (honorable mention: BENJAMIN M. BRASLOW)

The Orthopaedic Surgery Prize, for general excellence in clinical surgery, sponsored by the Department of Orthopaedic Surgery.

JOHN LEANDER MASONIS (honorable mention: CHRISTOPHER ROBERT LEHMAN)

The Edward J. Moore Memorial Prize in Pediatrics, to the student demonstrating the greatest aptitude in Pediatrics, in memory of Edward J. Moore, MD.

KIRK ALAN MILHOAN (honorable mention: THEOKLIS E. ZAOUTIS)

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

EUNKYUNG ANN KAUH

The S. MacCuen Smith Memorial Prize in Otolaryngology, to the member of the senior class judged most worthy of recognition for ability in the field of Otolaryngology. Sponsored by Mrs. Stuart Lodge Bullivant in memory of her father.

JOHN MICHAEL FEEHERY (honorable mention: RYAN PAUL GALLIVAN)

The Carroll R. Mullen Memorial Prize, in Ophthalmology, to the senior who has received the highest grade in ophthalmology.

LONNIE EILEEN ALLEN (honorable mention: SURI NARAYAN APPA)

The Obstetrics and Gynecology Prize, to a senior for general excellence in obstetrics and gynecology during the entire curriculum, sponsored by Mrs. Sarah George Miller in memory of John B. Montgomery, MD, Professor Emeritus of Obstetrics.

SARAH ANNE CHACKO

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, MD, ScD, Professor Emeritus of Psychiatry.

JEANNE LORRAINE BIRDSOONG (honorable mention: CONNIE GIL-EUN CHOI)

The Louis B. Swisher, Jr., Memorial Prize in Anesthesiology, to a fourth-year student who has shown general excellence in the field of anesthesiology.

STEPHEN DAVID MOY

The Philip J. Hodes Prize in Radiology, to the fourth-year medical student displaying outstanding aptitude and interest in Radiology.

KERT FRANCIS ANZILOTTI, JR. (honorable mention: JEFFREY PAUL KRAMER)

The Leopold Z. Goldstein Memorial Prize in Obstetrics and Gynecology, sponsored by Mrs. Leopold Z. Goldstein and daughters in memory of Leopold Z. Goldstein, MD, for the highest average in obstetrics and gynecology.

SHREYA MANUBHAI PATEL

The Arthur Krieger Memorial Prize in Family Medicine, sponsored by family and friends in memory of Arthur Krieger, MD, for excellence in family medicine.

DEBORAH LYNNE BENTZ (honorable mention: MATTHEW DAVID MATHIAS)

The Arthur Krieger Memorial Prize in Neurology, sponsored by family and friends in memory of Arthur Krieger, MD, for excellence in neurology.

KEVIN MICHAEL BIGLAN

The Dean Marie Baines Memorial Prize in Pediatrics, sponsored by family and friends in memory of Dean Marie Baines, MD, a graduate of the Class of 1973, for excellence in pediatrics.

BARBARA-JO ACHUFF (honorable mention: DOUGLAS MICHAEL HOFFMAN)

The Hubert Spencer Sear Memorial Prize in Radiology, sponsored by family and friends in memory of Hubert Spencer Sear, MD, Class of 1950, to an outstanding fourth-year student in radiology.

ANGELA JEAN GESSNER (honorable mention: ANDREW KWAK)

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.

M. BRETT OPELL (honorable mention: MARVIN EDWARD LAWRENCE II)

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

STEVEN ERIC CANFIELD (honorable mention: M. BRETT OPELL)

The Philip and Bella Medoff Memorial Prize, sponsored by their son, Joseph Medoff, MD, his wife, and children. The prize is given to a senior medical student who is a member of the Hobart Amory Hare Honor 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.

MARY ELLEN JOY WHITE (honorable mention: JACQUELINE CARRIE BROWN)

The Lemmon Prize in Anesthesiology, awarded from an endowment established by family members in memory of William T. Lemmon, Sr., MD, for clinical work or writing in the field of anesthesiology.

JENNIFER DAWN NUSS

The Annie Simpson General Medicine Prize, awarded to the medical student who received the best general average in general medicine.

ANDREW SCOTT PIERSON (honorable mention: STEVEN SHYH-SHAW FU)

The Annie Simpson Pulmonary Medicine Prize, awarded to the student who received the best general average in the area of pulmonary medicine.

JOEL SAMUEL ISACKSON (honorable mention: CHRISTIAN STEPHEN ADONIZIO)

The William C. Davis Prize, 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, MD, an alumnus of Jefferson Medical College.

LORI KAYE ROTHERMEL (honorable mention: PAUL WILLIAM SOKOLOWSKI)

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

MARK MAGILNER (honorable mention: JEFFREY PAUL KRAMER)

The Society for Academic Emergency Medicine Award, to a senior medical student who has demonstrated excellence in the specialty of emergency medicine.

JOSEPH S. BUSHRA

The Alfred I. duPont Institute Prize, awarded to the student whose performance best demonstrates the qualities of academic and clinical excellence, human compassion, and a commitment to the welfare of others as was exemplified by the life and trust of Alfred I. duPont.

E. ANDERS KOLB

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

KIRK ALAN MILHOAN

The Hyman Menduke Research Prize, sponsored by Dr. Michael LeWitt of the Class of 1974 and awarded to the 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.

NEELAM TODI

The William F. Kellow Prize, 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, MD, Dean and Vice President of Jefferson Medical College from 1967 to 1981.

JENNIFER ELIZABETH KACMAR (honorable mention: JOHN LEANDER MASONIS)

The Dean's Student Service Award, awarded to the fourth-year student who has given generously of time and talents for the service of classmates and Jefferson Medical College. Selected by the Dean.

BRET ROBERT SOKOLOFF

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

ERIC JAMES WEAVER

The J. Woodrow Savacool Prize in Medical Ethics, awarded to the senior medical student who embodies the ideal of the physician's caring commitment to moral and ethical values in medicine. Sponsored by a committee of friends and colleagues of J. Woodrow Savacool, MD, an alumnus and Honorary Clinical Associate Professor of Medicine, Jefferson Medical College.

E. ANDERS KOLB (honorable mention: LAUREN FAY HEALY)

DOCTOR OF SCIENCE—GAIL H. CASSELL

Dr. Gail Cassell is one of the world's foremost leaders in infectious disease research. She is a graduate of the University of Alabama. This institution of over 20,000 students recently selected Dr. Cassell as one of the top 31 female graduates of the past century. She is currently the Charles H. McCauley Professor and Chairman of the Department of Microbiology at the University of Alabama Schools of Medicine and Dentistry at Birmingham, a department which has ranked first in research funding from the National Institutes of Health for the past six years during her leadership. She holds secondary appointments in the Departments of Pediatrics and Comparative Medicine. During her career she has served as a visiting faculty member of Oxford University, the University of Bordeaux, and the Massachusetts Institute of Technology.

Dr. Cassell's major research contribution is the establishment of *Ureaplasma urealyticum* as a significant cause of chorioamnionitis and disease in premature human infants. The original *Lancet* paper describing the association of this organism with chronic lung disease and death of premature infants was designated as one of Oski's top 15 papers in the field of Pediatrics in 1988. Her laboratory was the first to demonstrate *U. urealyticum* in cerebrospinal fluid of infants and has subsequently shown this organism to be an important cause of chronic central nervous system infections in premature infants. Most recently, Dr. Cassell's laboratory was the leader in development of techniques for genetic manipulation of mycoplasmas and for characterization of membrane proteins shown to undergo significant structural and antigenic variation both in vitro and in vivo. Dr. Cassell's other major contribution has been the establishment of *Mycoplasma pulmonis* as a major cause of respiratory and genital disease in laboratory rats and mice. She was the first recipient of the Derrick Edward Award for outstanding contributions to the field of mycoplasmaology given by the International Organization for Mycoplasmaology and the second recipient of the Nathan Brewer Award for significant and repeated contributions to Comparative Medicine, an award given by the American Association for Laboratory Animal Science and the American College of Comparative Pathology. She is the recent recipient of the Martha and Howard Holly Prize from the American College of Rheumatology for her work on the infectious etiology of arthritis. She has also received a number of other awards and distinguished national and international lectureships for her work in mycoplasmaology.

In recognition of Dr. Cassell's contributions in the field of infectious disease research, she is a recent past President of the American Society for Microbiology (the oldest and single largest life sciences organization with a membership of over 40,000) and is currently serving as a member of the National Institutes of Health Director's Advisory Committee and as a member of the Advisory Council of the National Institute of Allergy and Infectious Disease of NIH. She was named to the original Board of Scientific Councilors of the Center for Infectious Diseases, Centers for Disease Control and continues to serve and Chair that Board as well as to serve on the CDC's Director's Advisory Committee. She serves on the editorial boards of many prestigious scientific journals and has authored numerous articles and book chapters.

Dr. Cassell has been intimately involved in establishment of science policy and legislation related to biomedical research and public health. She is a member of the Institute of Medicine of the National Academy of Sciences and has served as an advisor on infectious diseases and indirect costs of research to the White House Office of Science and Technology Policy.

DOCTOR OF SCIENCE—MANUEL VELASCO-SUAREZ

Dr. Manuel Velasco-Suarez is recognized throughout Mexico and the world for his accomplishments as an educator, public servant, and physician. He has been honored for his work for world peace, especially with the International Physicians for Prevention of Nuclear War (IPPNW, Nobel Peace Prize, 1985). For his service to the poor in Mexico he has often been recognized, receiving the Humanitarian Award of the American Association of Neurological Surgeons and the Medal of Honor from the World Federation of Neurological Societies.

He has also been actively involved in the academic and scholarly pursuits at his hospital. For a time he put aside his medical career, participating in the struggle for democracy and was elected Governor of his home state of Chiapas. He served in this position from 1970-76 and transformed many aspects of the education, communication, and rural electrification systems. To help ensure the educational future of the state, he founded the Technological Institutes and the Autonomous University of Chiapas.

Throughout his career, Dr. Velasco-Suarez has been quick to hear and answer the call for improved public health and education. In 1944, after receiving his medical degree from the National Autonomous University of Mexico and studying at Harvard University and George Washington University, he returned to Mexico and organized the first neurosurgery service at Juarez Hospital in Mexico City, serving as chief of the service until 1964.

In 1964 Dr. Velasco-Suarez founded and was the first Director of the National Institute of Neurology and Neurosurgery in Mexico City. In 1989 this Institute was renamed the "Professor Manuel Velasco-Suarez Hospital" in recognition of his outstanding work in the promotion of public health. He continues today to serve as the Hospital's Emeritus Director and Member of the Government Board.

In 1987 he was appointed General Director of Juarez Hospital in Mexico City and asked to bring about the construction and organization of a new hospital to replace the old one, which had been severely damaged in the 1985 earthquake. Using his unique stature and knowledge of political, financial, and healthcare resources, Dr. Velasco-Suarez saw to the creation of a state-of-the-art facility that is one of the finest in the world.

He has also undertaken many other public health duties over the last 40 years, including serving as Secretary of the National Health Council of Mexico; General Director of Neurology, Mental Health and Rehabilitation in the Ministry of Health; and founder and Executive Secretary of the National Commission of Bioethics.

In addition to his public service, Dr. Velasco-Suarez has been an extremely active teacher and scholar. He has held professorships of Neurology and Neurosurgery at the National Autonomous University of Mexico and at the residency program of the National Institute of Neurology and Neurosurgery. He has presented at more than 1,000 conferences in Mexico and abroad, authored and co-authored more than 300 hundred articles, and written six books. He is currently a member of two expert panels of the World Health Organization and a Visiting Professor at Jefferson Medical College. Since 1989 he has served as Emeritus Professor at the National Autonomous University of Mexico and lately Emeritus Academician at the National Academy of Surgery.

DOCTOR OF HUMANE LETTERS—FREDERICK B. WAGNER, JR.

The history of Jefferson is in many ways the history of outstanding individuals. Of all these outstanding Jeffersonians, however, only Dr. Frederick B. Wagner, Jr., has enjoyed the unique combination of talents, experience, and dedication to write the history of this institution.

Since he first came to Jefferson Medical College as a student in 1937, Dr. Wagner has served Thomas Jefferson University in many capacities. During those years all who came in contact with him perceived some aspect of his multifaceted talents.

His fellow students and teachers saw in him a talented student. He graduated from the University of Pennsylvania Phi Beta Kappa and summa cum laude. During medical school at Jefferson, he was elected to membership in the AOA Honor Society in his junior year, and in his senior year he won honors and graduated summa cum laude.

Generations of students and colleagues have known him as a knowledgeable and patient educator. He began this chapter of his professional life in 1943 as an Assistant Demonstrator of Anatomy and Surgery while doing his residency in Surgery at Jefferson. He was promoted quickly, becoming a professor of Surgery in 1955, and in 1978 he became the Grace Revere Osler Professor of Surgery, which he continues to hold today as an emeritus position. In 1978 his friends and colleagues also honored him by commissioning a portrait of him for presentation to the University.

Many others, both within Jefferson and beyond, have known Dr. Wagner as a leader and decision maker. He served on the Board of Trustees of Thomas Jefferson University and Children's Rehabilitation Hospital. He was Acting Chairman of the Department of Surgery, President of the Philadelphia Academy of Surgery, President of the Alumni Association of Jefferson Medical College, and President of the Meigs Medical Association. This year Dr. Wagner is serving as Reunion Chairman of the Class of 1941 for their 55th reunion.

Today all Jeffersonians know Dr. Wagner for his work as University Historian. In this capacity he has brought together all of his skills and interests. Combining his experiences as a teacher, clinician, and decision maker with his love of history and literature, he has written a masterful three volume history of the first 170 years of the Jefferson story. Such a labor of love could only have been brought to life by someone with Dr. Wagner's unique array of talents and experiences. In helping to make a record of Jefferson's past, Dr. Wagner has ensured that he will always be a part of Jefferson's future.

THE UNIVERSITY MACE

The Thomas Jefferson University mace, carried for the first time in the 1986 commencement ceremonies by the grand marshal, was designed and cast 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 Thomas Jefferson University Hospital, a part of the Jefferson Health System.

The mace, a grand emblem of the University's heritage, is carried at the head of all formal academic processions.

THE ACADEMIC COSTUME

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

Throughout the years European universities have continued to show great diversity in their academic dress. American universities on the other hand, when they decided to adopt academic dress 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's of 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 cutaway, and is worn open or closed. The Doctor's gown has bell-shaped sleeves. It is worn open 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	white and cherry	Temple University
blue and gold	Hahnemann 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. It 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.



