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1982 Commencement for Jefferson Medical College and College of Graduate Studies

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158TH
COMMENCEMENT



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

1824-1982

*Friday, June Eleventh
Nineteen Hundred and Eighty-Two
Half Past Two O'clock*

The Academy of Music

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 FRANK D. GRAY, JR., *Interim Dean*
Jefferson Medical College

The Oath of Hippocrates FRANCIS E. ROSATO, *Samuel D. Gross*

Professor of Surgery and Chairman of the Department
Jefferson Medical College

Master of Science

Presented by DEAN SAUKKONEN

CONFERRING OF HONORARY DEGREES PRESIDENT BLUEMLE

RICHARD C. BOND, **Doctor of Letters**

Presented by: WILLIAM W. BODINE, JR., *Board of Trustees*
Thomas Jefferson University

RICHARD M. KRAUSE, **Doctor of Laws**

Presented by: RUSSELL W. SCHAEGLER, *Professor of Microbiology and Chairman of the Department,*
Jefferson Medical College

JOHN W. OSWALD, **Doctor of Science**

Presented by: SAMUEL S. CONLY, JR., *Associate Professor of Physiology and Associate Dean,*
Jefferson Medical College

WILLIAM F. KELLOW, **Doctor of Laws** (Posthumously)

Presented by: JOSEPH S. GONNELLA, *Professor of Medicine and Associate Dean,*
Jefferson Medical College

SANDRA DAY O'CONNOR, **Doctor of Laws**

Presented by: A. LEON HIGGINBOTHAM, JR., *Board of Trustees,*
Thomas Jefferson University

ADDRESS THE HONORABLE SANDRA DAY O'CONNOR

BENEDICTION REVEREND BRADLEY

RECESSIONAL Pomp and Circumstance Elgar

W. ERNEST WELLS, *Organist*

Marshal

FRANCIS J. SWEENEY, JR.

Faculty Marshals

LORETTA P. FINNEGAN

JOSEPH S. GONNELLA

ROBERT J. MANDLE

JAMES H. ROBINSON

Student Marshals

LEONARD I. ZON
Jefferson Medical College

SANDRA E. BURKE
College of Graduate Studies

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

AWARDS and PRIZES

Awarded at Class Day Exercises on Thursday, June 10, 1982

FACULTY AWARDS

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

BASIC SCIENCES: MISAO TAKEDA, M.D., Associate Professor of Pathology

CLINICAL SCIENCES: BRUCE E. JARRELL, B.Ch.E., M.D., Assistant Professor of Surgery

AWARDS TO GRADUATING STUDENTS

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

WALTER WORTHINGTON DEAROLF, III, (honorable mention: RICHARD ERWIN GOLDSTEIN)

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

WALTER WORTHINGTON DEAROLF, III, (honorable mention: FRANKLIN J. CHINN)

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

ALBERT MICHAEL SIGNORELLA, (honorable mention: HOWARD NEIL KIVELL)

The Edward J. Moore Memorial Prize in Pediatrics.

ALEX VAN LEVIN

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.

JOHN CHESTER LYSTASH, (honorable mention: STANFORD DALE GITTLEN)

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

JOHN FRANK LAWLIS, III and LEONARD A. NITOWSKI

The Carroll R. Mullen Memorial Prize in Ophthalmology.

IRA SETH SOLOMON, (honorable mention: JAMES SCOTT LEWIS)

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.

GEORGE REDSECKER ROHRER, JR., (honorable mention: JEFFREY DANIEL BLOSS)

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

ALAN JAY COHEN, (honorable mention: WALTER W. STRAUSSER)

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

CRAIG HARVEY SHERMAN, (honorable mention: ANDREW JOHN NORTON)

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

CRAIG HARVEY SHERMAN, (honorable mention: JOHN CHESTER LYSTASH)

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

LOUISE HELEN TURCHIN, (honorable mention: GARRETT DEAN KINE)

The Philip J. Hodes Prize in Radiology.

ILENE BETH LEFKOWITZ, (honorable mention: JUDD WENDELL MOUL)

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.

PAUL MEREDITH JURKOWSKI, (honorable mention: MICHAEL JOHN ZORCH)

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.

DAVID CHARLES GREB, (honorable mention: WILLIAM JOHN PARONISH)

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

ANTHONY BILLAS, JR., (honorable mention: ROBERT WOOD ARMSTRONG)

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

FRANS ALBERT VOSSBERG, III, (honorable mention: JOHN MICHAEL STRITTMATTER)

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.

ILENE BETH LEFKOWITZ

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.

PAUL ANTHONY MCGEEHAN, (honorable mention: STUART JONATHAN SINGER)

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.

JOHN CARL GARDNER, (honorable mention: KENNETH MICHAEL BRANTLEY)

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.

JUDD WENDELL MOUL, (honorable mention: STEVEN CHARLES FLASHNER)

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

S. MITCHELL RIVITZ, (honorable mention: ESSIE JEANINE WOODS)

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.

CRAIG HARVEY SHERMAN, (honorable mention: ESSIE JEANINE WOODS)

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.

MICHAEL EDWARD GOLDBERG, (honorable mention: WILLIAM DAVID PATERSON)

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.

JAMES SCOTT LEWIS, (honorable mention: MICHAEL JOHN ZORCH)

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

ESSIE JEANINE WOODS, (honorable mention: SHERRY LUBER BLUMENTHAL)

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

SHERRY LUBER BLUMENTHAL

CAROLYN FOWLER SIDOR

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

VICTOR FRANCIS ALTADONNA

ROBERT WOOD ARMSTRONG

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

ANDREW JOHN NORTON

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

SCOTT EDWARD HESSEN

S. MITCHELL RIVITZ

THOMAS JOHN TURISSINI

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

GENESTER SYLVANNA WILSON-KING

The Henry J. Kaiser Family Foundation Merit Scholar Award designated by the National Medical Fellowship, Inc. has been awarded to:

ESSIE JEANINE WOODS

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

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

The Louis Merves Award established by the family and friends of the late Dr. Louis Merves of the Class of 1937 and former Clinical Associate Professor. This award is a presentation of the works of Vincent Van Gogh.

DOCTOR OF LAWS—RICHARD CLARKSON BOND

Richard Clarkson Bond was born in 1908 and educated in the school system of Upper Darby, Pennsylvania. He received his Bachelor of Arts degree from Swarthmore College and attended the Harvard University Graduate School of Business Administration where he received his Master's degree.

Mr. Bond began his professional and business career in Philadelphia and for many years was the president and chief executive officer of John Wanamaker of Philadelphia until he retired in 1968. He continues to serve as a member of the Board of Trustees of the Wanamaker Estate.

Richard Bond's life and career has been marked by a deep sense of civic responsibility and commitment to his native city. He has served as chairman, president, and board member of many cultural institutions in Philadelphia, including the Philadelphia Orchestra, the Philadelphia Museum of Art, and the public television station WHYY-TV. Mr. Bond has given of himself unselfishly to the activities of the World Affairs Council, the United Way, the Greater Philadelphia Movement, the Philadelphia Urban Coalition, the Chamber of Commerce, the Veteran's Stadium Committee, and he served as chairman of Philadelphia '76, Inc.

Mr. Bond became associated with Thomas Jefferson University in 1957 when he was appointed a Life Trustee. He was the chairman of the Jefferson Medical College Committee for many years. His knowledge and expertise during that time were of great value to the faculty and administration. Mr. Bond additionally served on the Hospital Committee and the Finance Committee of Jefferson.

Richard Bond has also been interested in the academic affairs of his alma mater, Swarthmore College, which he has served as a member of the Board of Trustees.

His achievements have been recognized by the conferring of numerous awards and honorary degrees. These include degrees from Beaver, St. Joseph's and Swarthmore Colleges, and from Temple and Drexel Universities. His awards include the coveted William Penn Award of the Chamber of Commerce, the Distinguished Pennsylvanian Award, the Golden Slippers Square Club Distinguished Achievement Award, the United Way Citizen Volunteer Award, the Philadelphia Museum of Art Citation, and the Human Relations Award of the National Conference of Christians and Jews.

Richard Bond is married to the former Barbara Batt and they have three children and ten grandchildren.

DOCTOR OF LAWS—RICHARD MICHAEL KRAUSE

Richard Michael Krause, an internationally known scientist, an articulate spokesman for immunology, and infectious disease, and Director of the National Institutes of Allergy and Infectious Diseases, was born in Marietta, Ohio.

He received his Bachelor of Arts degree in 1947 from Marietta College and his Doctor of Medicine degree from Case Western University School of Medicine in 1952. During his undergraduate and medical school education, he was fortunate to become associated with Doctor Charles Rammelkamp who was investigating the relationship between streptococcal sore throat and rheumatic fever. Because of that association, Doctor Krause's interests in the streptococcus began and never wavered.

Following an internship and residency at Barnes Hospital in St. Louis, he was appointed assistant physician at the Rockefeller Institute and Hospital in 1954. His research focused on an understanding of rheumatic fever and acute nephritis. He first investigated the anatomy of the streptococcus and then was able to study the specific immune response to the various components of this bacteria—all of which led to his dedication to the study of immunology. His more recent studies of genetic factors controlling the immune response have helped, in part, to usher in the era of hybridoma research.

Doctor Krause interrupted his tenure at Rockefeller University for a period of four years when he became the Professor of Epidemiology and Medicine at Washington University School of Medicine. After returning to the Rockefeller University in 1966, he continued his research activity there until 1975 when he became Director of the National Institute of Allergy and Infectious Diseases. Shortly after his appointment, he instituted a national program for basic clinical studies in asthma and other allergic and immunologic diseases and he streamlined and reorganized the extramural and intramural research programs of the Institute. He has dealt effectively and frequently with government and has carried out with distinction a number of essentially difficult assignments relative to recombinant DNA research and has been deeply involved in formulating policy on important health and legal aspects of vaccination programs.

Richard Krause is one of those rare individuals who can listen to tedious hours of scientific dialogue and summarize in a few sentences the important aspects of the meeting. As a pleasurable aside, he reads avidly on the history of the Civil War. He communicates easily with scientists and laymen alike and lectures widely throughout this country. Recently a collection of his lectures has been published in a book entitled, *The Restless Tide: The Persistent Challenge of the Microbial World*.

For his various accomplishments, Doctor Krause has been honored by election to the National Academy of Sciences and the Academy's Institute of Medicine. He received the Department of Health, Education, and Welfare's Distinguished Service Medal for outstanding leadership in guiding the complex programs of the Institute. He continues to direct the Institute to meet the challenges of modern medicine.

DOCTOR OF SCIENCE—JOHN WIELAND OSWALD

John Wieland Oswald became the thirteenth president of The Pennsylvania State University on July 1, 1970. He came to Penn State from the University of California at Berkeley where he had served as executive vice president.

Born in Minneapolis, Minnesota, Doctor Oswald was graduated in 1938 from DePauw University with a Bachelor of Arts degree in botany and a minor in history.

As an undergraduate at DePauw, he was that unusual combination of Phi Beta Kappa student and star athlete, serving as captain of the football team and as a letterman in basketball and track. In 1962 he was named to Sports Illustrated's Silver Anniversary football team, consisting of men who excel in their life's work as well as on the football field.

John Oswald enrolled at the University of California at Davis, as a graduate student in plant pathology in 1938. Four years later, after research and study at both the Davis and Berkeley campuses, he was awarded the Doctor of Philosophy degree in plant pathology. While in graduate school, he began a research career that led to the publication of more than 70 scientific papers.

After receiving his Doctoral degree, Doctor Oswald entered the United States Navy, serving from 1942 until 1946. He participated in more than 50 combat missions as a PT boat captain and divisional commander in the Mediterranean and received the U.S. Navy Commendation Medal.

Following his military service, Doctor Oswald returned to the Davis campus as assistant professor of plant pathology and as plant pathologist in the Agricultural Experiment Station. His research involved the fundamentals of the serology of plant viruses and virus diseases. He discovered a new disease of cereals, called the barley yellow dwarf, which has since been recognized as one of the principal cereal diseases throughout the world.

During 1953-54, Doctor Oswald served as a Fulbright research grantee at the Agricultural University of The Netherlands in Wageningen, and on his return to this country he moved to the Berkeley campus as chairman of the Department of Plant Pathology. He was promoted to professor in 1957, and began concurrent duties as administrative assistant to the Chancellor of the Berkeley campus.

In 1958, Doctor Oswald was promoted in to the Office of the President of the California State-Wide University system, serving successively in various increasingly responsible positions until his appointment in 1962 as vice president for administration.

He was elected president of the University of Kentucky in 1963 where in a period of five years he developed many new programs, greatly strengthened the faculty, and supervised the largest development program in the University's history.

Doctor Oswald resigned from the University of Kentucky to become the executive vice president in the University of California system of 100,000 students and almost 10,000 faculty members on nine campuses. In 1970 he was elected president of The Pennsylvania State University.

Doctor Oswald has participated in many national educational groups and in local community activities. He has been a member of the Board of Directors of the American Council on Education and was elected chairman of the Council in 1972. He has served as president of the Association of American Universities and as vice president and president of the Pennsylvania Association of Colleges and Universities which is composed of the presidents of 117 public and private institutions of higher learning in Pennsylvania.

Doctor Oswald has been an enthusiastic supporter of the very successful Penn State-Jefferson Medical College Accelerated Program. Now entering its twentieth year, this program has proven to be extremely innovative and has produced to date 409 highly qualified physicians.

He holds honorary degrees from DePauw University, the University of Louisville, Centre College, the University of California at Davis, Temple University, Juniata College, and Gettysburg College.

John Oswald is married to the former Rosanel Owen. They have two daughters, Elizabeth and Nancy, and one son, John, Jr.

DOCTOR OF LAWS—WILLIAM FRANCIS KELLOW

William Francis Kellow was born and raised in Geneva, New York. His undergraduate education was taken at the University of Notre Dame where he received a Bachelor of Science degree in 1943. (He was also the 1965 recipient of Notre Dame's Centennial Science Award.)

Doctor Kellow received his Doctor of Medicine degree from the Georgetown University School of Medicine and interned and served his residency in Internal Medicine at the District of Columbia General Hospital. He was certified by the American Board of Internal Medicine and by the subspecialty board in Pulmonary Disease.

William Kellow served as a Captain in the United States Air Force during the Korean conflict. During his professional career, he was a member of the faculties of Georgetown University School of Medicine, the University of Illinois College of Medicine, Hahnemann Medical College, and Jefferson Medical College. As an Associate Dean at Illinois, he played a vital role in many of the educational innovations that the school introduced in the late 1950's and early 1960's, including the establishment of one of the first Offices of Medical Education in this country.

In 1961, Doctor Kellow became Dean of the Hahnemann Medical College and served for six years before assuming the deanship of Jefferson Medical College—a post he held for 15 years. Dean Kellow was a respected clinician, investigator, teacher, and administrator who was able to develop and teach the science as well as the art of medicine. He had few equals as a manager and administrator, and as a dean he successfully guided two medical schools through some of the most difficult periods faced by medical education in this country. During his deanships, he introduced many new programs, advocated a democratic process for the faculty and students, sought a balance between education and research, and developed financial support to upgrade the basic and clinical facilities of the two institutions.

One of Doctor Kellow's most cherished accomplishments was spearheading Jefferson Medical College's efforts in encouraging more students to enter into the practice of Family Medicine, especially in rural areas of Pennsylvania. He helped restructure the curriculum, introducing the study of Family Medicine as a required course for third year medical students. In 1973, Jefferson established the first separate academic department of Family Medicine in Pennsylvania.

During his extraordinary administrative career, Doctor Kellow served in key medical education positions, particularly as a member of the Liaison Committee on Medical Education, the accrediting body for United States and Canadian medical schools. He also served as chairman of the American Medical Association's Advisory Committee on Undergraduate Medical Education and was elected to the AMA's Council on Medical Education which is responsible for recommending policies on all phases of medical education.

Doctor Kellow's numerous awards include honorary degrees from Hahnemann Medical College, Georgetown University, and Saint Joseph's University in Philadelphia. In 1978, the Jefferson Medical College Alumni Association commissioned his portrait which was presented to Thomas Jefferson University. A similar honor had been given to him by the Hahnemann Medical College Alumni Association.

Doctor Kellow was a member of the Board of Regents of the American College of Physicians and served as its Treasurer. In 1977, William Kellow was made a Master of the American College of Physicians—the highest honor awarded to Fellows of the College.

Upon retiring from the deanship of Jefferson Medical College in November 1981, Doctor Kellow was named *Dean Emeritus* by the Board of Trustees. He became the first recipient of the Winged Ox of Saint Luke award presented to individuals for their distinguished service to the University. Even though he was not a graduate of Jefferson Medical College, he received its Alumni Achievement Award which recognizes alumni (or other exceptional individuals) whose careers have brought honor and prestige to the medical school. As a tribute to Doctor Kellow's dedication to teaching, the University designated a recently completed suite of classrooms in the medical college building as the Kellow Conference Center. Each room is named in honor of a Jefferson faculty member who made an outstanding contribution to medical education. William Kellow died on December 3, 1981.

Doctor Kellow is survived by his wife, the former Stella Toczylyowski, and his five daughters, Suzanne Kellow Portfolio, Joanne Kellow Rakov, Jennifer, Mary Jeanne, and Kathleen, his mother, Mrs. Robert Kellow, and a grandson, Almerindo Portfolio, III.

DOCTOR OF LAWS—SANDRA DAY O'CONNOR

Sandra Day O'Connor was born in El Paso, Texas, and spent most of her life in southeastern Arizona. She matriculated in Stanford University where she majored in Economics and obtained her Bachelor of Arts degree magna cum laude. Two years later in 1952 she received her law degree from Stanford where she had been a member of the Order of the Coif and a member of the Board of Editors of the Stanford Law Review. While serving on this Board, she met John Jay O'Connor, III, and they were married in 1952.

Following her graduation from Law School, Sandra O'Connor worked as a county deputy attorney in California and then accompanied her husband to Germany where she was employed as a civilian lawyer for the United States Quartermaster Corps. Upon return to Arizona, she entered private practice, served in various part-time positions in county and state government, was a volunteer in the school system while she worked as a wife and mother raising her growing family.

In 1965, Justice O'Connor was appointed the Assistant Attorney General for Arizona—a post she held for four years until she was chosen by the Governor of the State of Arizona to complete an unexpired term in the State Senate. She later campaigned successfully and was elected to the State Senate where she became the majority leader—the first woman to hold an office in any State Senate in our country.

In 1974, Sandra O'Connor won election for a judgeship of Maricopa County Superior Court, and in 1979 she was appointed by the Governor to the Arizona Court of Appeals. In 1981, President Reagan recommended her for appointment as an Associate Justice of the Supreme Court of the United States. The President stated, "She is truly a person for all seasons—possessing those unique qualities of temperament, fairness, intellectual capacity, and devotion to the public good which has characterized the 101 brethren who have preceded her."

Discrimination against women has been a major concern of Justice O'Connor. She has served as a member of the National Defense Advisory Committee on Women in the Services. She has championed efforts to end discrimination of women in the work force and to allow women to manage jointly property held with their husbands. During the confirmation hearing on her nomination as an Associate Justice of the Supreme Court, she was asked, "How do you want to be remembered?" She replied, "Ah, the tombstone question. I hope it says 'here lies a good judge'. I hope I am remembered as the first woman who served on the Supreme Court."

Justice O'Connor has been active in many civic organizations and activities, including the Smithsonian Associates, the Salvation Army, the YMCA, the Phoenix Community Council, and the Maricopa County Juvenile Court Study Committee. She served as a member of the Board of Trustees of Stanford University, the Phoenix Historical Society, the Junior League of Phoenix, the First National Bank of Arizona, the Citizens Advisory Board on Blood Services, and as the public member of the Liaison Committee on Medical Education—the body that accredits medical schools in the United States and Canada.

Justice O'Connor was honored in 1972 by the Phoenix Advertising Club as the "Woman of the Year" and in 1975 with the Annual Award of the National Conference of Christians and Jews. She was the recipient of the Arizona State University Distinguished Achievement Award in 1980.

The O'Connors reside in the Washington, D.C., area and are the parents of three sons, Scott, Brian, and Jay.

STEVEN ALFRED SCOTTCherry Hill, NJ
 ALLEN RANDALL SEEGERWilmington, DE
 RONALD KARL SETZKORNMohnton, PA
 MARK HUNGERFORD SHELLEYPort Allegany, PA
 CRAIG HARVEY SHERMANLynbrook, NY
 CAROLYN FOWLER SIDORWilmington, DE
 ALBERT MICHAEL SIGNORELLANew Bedford, MA
 STUART JONATHAN SINGERHuntingdon Valley, PA
 CAROL ANN SLOMPAKAllentown, PA
 GEORGE FRANCIS SMITH, JR.Westmont, NJ
 GREGORY THOMAS SMITHSewickley, PA
 TINA MARIE SMITHGilbertsville, PA
 STEPHEN RICHARD SOBIERochester, NY
 IRA SETH SOLOMONSuffern, NY
 JOHN EUGENE SONGERProsperity, PA
 MARYANNE SORENSENWildwood Crest, NJ
 JULIE DIANA SORENSONEtna, NH
 JAMES C. SPRINGERLevittown, PA
 DANIEL JON STAUFFERMacungie, PA
 JOSEPH HENRY STELLAVentnor, NJ
 WALTER W. STRAUSSER, JR.Philadelphia, PA
 JOHN MICHAEL STRITTMATTERLansdale, PA
 CRAIG ANDREW STUCKGreenville, PA
 MARK WARREN STULLAllentown, PA
 JOEL MICHAEL SUMFESTMorrisville, PA
 RICHARD ALEXANDER SZUCSBroomall, PA
 DAVID TAI-CHONG TENNRolling Hills, CA
 ALAN J. THISTLETHWAITEPhiladelphia, PA
 CYNTHIA THOMASAliquippa, PA
 JOHN WILLIS TILLEY, JR.Philadelphia, PA
 KENNETH JAMES TOMPKINSMedia, PA

ALLENE JANE MORRIS TRESSLERColumbus, PA
 LLOYD LEONARD TRUJILLODenver, CO
 LOUISE HELEN TURCHINBronx, NY
 THOMAS JOHN TURISSINIJessup, PA
 BRIAN MICHAEL UNIACKEHockessin, DE
 SANDRA EVE VAUSEYeadon, PA
 JOSEPH VICTOR VERNACEEaston, PA
 JULIUS SUMNER VON CLEF, IIIPhiladelphia, PA
 ANN STONEMAN VORYSColumbus, OH
 FRANS ALBERT VOSSENBERG, IIIWayne, PA
 LISE CAROL WALKERLas Vegas, NV
 PETER GLENN WALLICKYork, PA
 JOSEPH PATRICK WALLSPhiladelphia, PA
 THOMAS JOSEPH WARGOVICHBoston, PA
 ERIC RICHARD WEAVERLINGOsterburg, PA
 THOMAS PORTER WHETZELPittsburgh, PA
 PRESTON ALLEN WIGFALLPhiladelphia, PA
 (Degree Conferred October 5, 1981)

JOHN ALLEN WILSON, JR.Hermitage, PA
 GENESTER SYLVANNA WILSON-KING ..Warminster, PA
 MARIE ELLEN BUSH WOLFBangor, PA
 ESSIE JEANINE WOODSChattanooga, TN
 KATHLEEN JOAN WOODSIndiana, PA
 KENNETH ALAN YAMAMOTOPhiladelphia, PA
 MARK FRANCIS YAROSBradford, PA
 JERRY YEEPittsburgh, PA
 MARK RICHARD ZOLNICKWilmington, DE
 MICHAEL JOHN ZORCHHarwick, PA
 PAUL MARTIN ZORCHHarwick, PA
 EDWARD GERALD ZURADPhiladelphia, PA
 MARK LEONARD ZWANGERSomerville, NJ

CANDIDATES FOR THE DEGREE OF MASTER OF SCIENCE

JOHN NICHOLAS STAGIAS (Microbiology)Cherry Hill, NJ
 Thesis Title: "Threonine Deaminase Activity in *Neisseria gonorrhoeae*."
 EDMUND JAY STERNBERG (Biochemistry)Wallingford, PA
 Thesis Title: "Chromatin Associated Proteases in Regenerating Rat Liver."
 STEPHEN ALEXANDER WEISS (Pharmacology)Huntingdon Valley, PA
 Thesis Title: "Studies on the Metabolism of the Antineoplastic Agent Cyclo-phosphamide and the Fate of its Metabolite, *nor*-Nitrogen Mustard."

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

MARION M. BASHOREWest Reading, PA
 MARGARET ROSE BOSSARDRosemont, PA
 JEFFREY ALLEN CHILDQuakertown, PA
 JOSEPHINE L. CHISOMPhiladelphia, PA
 SUSAN RITA CROUSHOREPhiladelphia, PA
 VIRGINIA STALEY EBERLYGlenolden, PA
 LONNIE LEE EBERSOLEHarrisburg, PA
 CHARLOTTE R. KROFTWest Chester, PA
 PAULINE MARIE McDONOUGHMontclair, NJ
 KAREN MARIE PLUMMERBinghamton, NY
 CAROL A. OSBAHRPhiladelphia, PA
 DEBORAH SCANTLAND THEISWilmington, DE

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

CANDIDATES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

- DAVID AHARONY (Pharmacology) Kiryat Ono, Israel
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Thesis Title: "Characterization and Biological Properties of the Teichoic Acids of *Streptococcus agalactiae*, Type III."
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Thesis Title: "Role of Alpha-Adrenergic Compounds in the Regulation of Thyroid Gland Function."
- DAVID SAMMETT (Pharmacology) Flushing, NY
Thesis Title: "Effect of Partial Hepatectomy on Benzene Metabolism and Toxicity."
- JOHN CARTER SHRYOCK (Pharmacology) Philadelphia, PA
Thesis Title: "Cellular Mechanism of Sea Nettle Venom Toxicity on Cardiac Muscle."
- ROBERT LAWRENCE SIEGEL (Biochemistry) Philadelphia, PA
Thesis Title: "Studies on DNA Endoreduplication in Rat Giant Trophoblast Cells."
- JANET SREDY (Microbiology) Elizabeth, PA
Thesis Title: "Penicillin Sensitivity and LTA Toxicity as Related to the Biotin-Fatty Acid Interrelationships in *Streptococcus agalactiae*."
- TONI LYNN STANTON (Pharmacology) Philadelphia, PA
Thesis Title: "Thyrotropin-Releasing Hormone: Evidence for a Role in the Modulation of Central Activity State."
- CHEN-TUNG A. YEN (Physiology) Taiwan, Republic of China
Thesis Title: "The Role of Medullary Raphe Nuclei in Baroreflex, Somatosympathetic Reflex and Opiate-Produced Depressor Effect."

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THE ACADEMIC COSTUME

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

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

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

The hoods vary in length: 48 inches for the Doctor's degree, 42 inches for the Master's, and 36 inches for the Bachelor's and Associate's. All hoods are lined in silk in the academic color or colors of the institution conferring the degree. If the institution has more than one color, the colors are shown in divisions using chevrons. The binding or edge of the Doctor's, Master's and Bachelor's hoods are usually made of velvet in the color designating the subject in which the degree was granted. The Associate of Arts hood has no velvet border. The outside is black.

Black mortarboards are worn for all degrees.

THE JEFFERSON PROCESSIONAL

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

THE PRESIDENTIAL BADGE OF THOMAS JEFFERSON UNIVERSITY

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

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

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

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

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