

6-10-1994

## 1994 Commencement for Jefferson Medical College and College of Graduate Studies

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170TH  
COMMENCEMENT



*Jefferson Medical College*  
*College of Graduate Studies*

*of*

*Thomas Jefferson University*

*Philadelphia, Pennsylvania*

*1824-1994*

*Friday, June Tenth*

*Nineteen Hundred and Ninety-Four*

*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, *Vice Chairman*  
Board of Trustees  
Thomas Jefferson University

THE NATIONAL ANTHEM

INVOCATION ..... RABBI FRANK STERN  
Executive Director of the Board of Rabbis

CONVOCATION ..... PAUL C. BRUCKER, *President*  
Thomas Jefferson University

CONFERRING OF DEGREES IN COURSE ..... PRESIDENT BRUCKER

Doctor of Philosophy  
Presented by ..... JUSSI J. SAUKKONEN, *Vice President*  
*for Special Programs and Dean*  
College of Graduate Studies

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

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

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

CONFERRING OF HONORARY DEGREES ..... PRESIDENT BRUCKER

JEROME P. KASSIRER, *Doctor of Science*  
Presented by ..... VICE CHAIRMAN FARBER

TAKASHI SUGIMURA, *Doctor of Science*  
Presented by ..... DEAN GONNELLA

BENEDICTION ..... RABBI STERN

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

THE REVEREND R. BRUCE TODD, *Organist*

*Grand Marshal*  
R. ANTHONY CARABASI III

*Faculty Marshals*  
SAMUEL C. ALDRIDGE    BENJAMIN BACHARACH    CHRISTOPHER V. CHAMBERS    JAMES B. ERDMANN  
DIANE R. GILLUM    GENO J. MERLI    RICHARD R. SCHMIDT    JOSEPH R. SHERWIN    MARION J. SIEGMAN

*Student Marshals*  
JAMES S. HARROP    TERRY Y. KWAK

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

CANDIDATES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

- TERESA FERNANDES-ALNEMRI (Genetics) ..... Bombay, India  
 B.S., St. Xavier's College; M.S., Temple University  
 Thesis Title: "Identification of a Complex Tandem Repeat Family in the Human Genome and Characterization of One Family Member, a Novel Gene Expressed in Hematopoietic Lineages"  
 Thesis Advisor: K. Huebner, Ph.D.
- MICHAEL REX BLACKBURN (Anatomy and Developmental Biology) ..... Bristol, TN  
 B.S., King College  
 Thesis Title: "Characterization of an Adenosine Signalling Mechanism in the Early Postimplantation Mouse Uterus"  
 Thesis Advisor: T.B. Knudsen, Ph.D.
- \*SULAGNA CHAKRABORTY (Biochemistry and Molecular Biology) ..... Poolesville, MD  
 B.A., The Johns Hopkins University  
 Thesis Title: "Mutations in the Lysosomal  $\beta$ -Galactosidase Gene that Cause the Adult Form of GM1 Gangliosidosis"  
 Thesis Advisor: D.A. Wenger, Ph.D.
- \*CYNTHIA CHENG (Molecular Pharmacology and Structural Biology) ..... Allentown, PA  
 B.S., The Pennsylvania State University  
 Thesis Title: "Effects of Acetylsalicylic Acid on Fibrin Clot Cross-Linking, Lysis, and Structure: *in Vivo* and *in Vitro* Studies"  
 Thesis Advisor: T.D. Bjornsson, M.D., Ph.D.
- KELLY LYN DAVENPECK (Physiology) ..... Philadelphia, PA  
 B.S., Russell Sage College  
 Thesis Title: "The Role of P-Selectin and Nitric Oxide in Leukocyte-Endothelial Interaction in the Rat Mesenteric Microcirculation"  
 Thesis Advisor: A.M. Lefter, Ph.D.
- XIANG GAO (Anatomy and Developmental Biology) ..... Nanjing, P.R.C.  
 B.S., Nanjing University; M.S., Nanjing University  
 Thesis Title: "Apoptosis in Early Mouse Embryos as a Determinant of Abnormal Development"  
 Thesis Advisor: T.B. Knudsen, Ph.D.
- \*AMY ELIZABETH GEDDIS (Biochemistry and Molecular Biology) ..... Pittsburgh, PA  
 B.S., Chatham College  
 Thesis Title: "The Development of a Recombinant System for the Production of Normal and Substituted Pro  $\alpha$ 1 (I) Collagen. HT1080 Cells that have Been Stably Transfected with COL1A1 Secrete Homotrimeric Collagen that is Post-Translationally Modified and Thermostable"  
 Thesis Advisor: D.J. Prockop, M.D., Ph.D.
- YANSONG GU (Genetics) ..... Shanghai, P.R.C.  
 B.S., East China University of Chemical Technology  
 Thesis Title: "Molecular Genetics of Human Acute Leukemia with Chromosome Translocation t(4;11)(q21;q23)"  
 Thesis Advisor: C.M. Croce, M.D.
- GUANGHUI KONG (Molecular Pharmacology and Structural Biology) ..... Hangzhou, P.R.C.  
 B.M., Harbin Medical University; M.M., Zhejiang Medical University  
 Thesis Title: "Structural and Functional Characterization of  $\beta$ -Adrenergic Receptor Kinase (BARK)"  
 Thesis Advisor: J.L. Benovic, Ph.D.
- \*PETER SHEN-SU LIAO (Molecular Pharmacology and Structural Biology) ..... Glen Arm, MD  
 B.S., The Pennsylvania State University  
 Thesis Title: "Extracellular Matrix Proteins as Stimulators of Tissue-Type Plasminogen Activator Activity"  
 Thesis Advisor: T.D. Bjornsson, M.D., Ph.D.
- REBECCA ANN LIDDELL (Developmental Biology/Teratology) ..... Newfane, NY  
 B.A., State University of New York, Potsdam, NY  
 Thesis Title: "The Analysis of Isoactin Gene Expression During Normal and Abnormal Gastrointestinal Smooth Muscle Development"  
 Thesis Advisor: K.M. McHugh, Ph.D.
- DAVID HUA LIN (Genetics) ..... Shanghai, P.R.C.  
 M.D., Shanghai Medical College  
 Thesis Title: "Cellular Genes Modulated by p53 Protein"  
 Thesis Advisor: W.E. Mercer, Ph.D.

\*Also receiving a Doctor of Medicine degree from Jefferson Medical College.

- JAMES MICHAEL McDONNELL (Immunology) ..... Easton, MA  
 B.S., University of Massachusetts  
 Thesis Title: "The Role of the CDR3-like Region of CD4 in T Cell Activation"  
 Thesis Advisor: B.A. Jameson, Ph.D.
- REEMA MEWAR (Biochemistry and Molecular Biology) ..... Cincinnati, OH  
 B.S., Kishinchand Chellaram College; M.S., Institute of Science, Bombay  
 Thesis Title: "Analysis of Patients Displaying Clinical Findings Associated with Trisomy 18"  
 Thesis Advisor: J.M. Overhauser, Ph.D.
- JULIE ANNE NAPIERALSKI (Developmental Biology/Teratology) ..... Shavertown, PA  
 B.S., King's College  
 Thesis Title: "Characterization and Developmental Analysis of the Cerebellum of the Meander Tail Mutant Mouse"  
 Thesis Advisor: L.M. Eisenman, Ph.D.
- MICHELE ANN PARADIES (Developmental Biology/Teratology) ..... Ardmore, PA  
 B.S., Wilkes College  
 Thesis Title: "The Embryonic Development and Organization of the Olivocerebellar and Nucleo-Olivary Projection Systems in the Mouse"  
 Thesis Advisor: L.M. Eisenman, Ph.D.
- JOHN GAETANO PASTORINO (Pathology and Cell Biology) ..... Philadelphia, PA  
 B.S., Temple University  
 Thesis Title: "The Role of Mitochondrial Dysfunction in Hypoxic Cell Killing"  
 Thesis Advisor: J.L. Farber, Ph.D.
- NEENA PHILIPS (Biochemistry and Molecular Biology) ..... Bihar, India  
 B.S., Women's Christian College; M.A., Mount Holyoke College  
 Thesis Title: "Mechanisms Responsible for Increased Collagen Gene Expression in Tight-skin (TSK) Mice Myocardial Fibroblasts"  
 Thesis Advisor: S.A. Jimenez, M.D.
- IRENE T. PLEASURE (Molecular Pharmacology and Structural Biology) ..... Philadelphia, PA  
 B.A., University of Pennsylvania  
 Thesis Title: "Clathrin Interactions with HSC70- and Valosin-Containing Protein"  
 Thesis Advisor: J.H. Keen, Ph.D.
- ELLEN JANE PURPUS (Pathology and Cell Biology) ..... Cincinnati, OH  
 B.S., Ball State University  
 Thesis Title: "Differentiation-Defective Murine Embryonal Carcinoma Cells: Characterization of Retinoic Acid-Induced Gene Expression and Rescue of Phenotype by DNA Transfection"  
 Thesis Advisor: P.A. McCue, M.D.
- DENNIS J. ROZANSKI, JR. (Pathology and Cell Biology) ..... Boulder, CO  
 B.S., Philadelphia College of Pharmacy & Science  
 Thesis Title: "Effects of Ethanol on Excitation-Contraction Coupling in Single Cardiomyocytes"  
 Thesis Advisor: A.P. Thomas, Ph.D.
- \*KIMBERLY KLIMEK RUHL (Biochemistry and Molecular Biology) ..... Newark, DE  
 B.A., Dartmouth College  
 Thesis Title: "Phorbol Esters Suppress Ornithine Decarboxylase Activity and Alter ODC Subcellular Localization Concomitant with Disruption of Actin Cytoskeleton in Human Epidermal Cells"  
 Thesis Advisor: N.J. Hickok, Ph.D.
- \*MARTIN ROBERT SIEGFRIED (Physiology) ..... Hilltown, PA  
 B.S., The Pennsylvania State University  
 Thesis Title: "Myocardial and Endothelial Protective Effects of Nitric Oxide Donors in Feline Myocardial Ischemia and Reperfusion"  
 Thesis Advisor: A.M. Lefter, Ph.D.
- RAJ KAMAL SINHA (Biochemistry and Molecular Biology) ..... Coraopolis, PA  
 B.S., The Pennsylvania State University; M.D., Jefferson Medical College  
 Thesis Title: "Adhesion of Human Bone Cells to Orthopaedic Implant Materials"  
 Thesis Advisor: R.S. Tuan, Ph.D.
- SHAU-CHING WEN (Genetics) ..... Taipei, Taiwan  
 B.S., Fu-Zen Catholic University  
 Thesis Title: "The Study of the Regulation of Human CDC2 Gene"  
 Thesis Advisor: B. Calabretta, M.D., Ph.D.
- MAYME WONG (Developmental Biology/Teratology) ..... Willowdale, Ontario, Canada  
 B.S., University of Toronto; M.S., University of Toronto  
 Thesis Title: "Regulation of Cellular Differentiation in the Developing Chick Embryonic Calvarium"  
 Thesis Advisor: R.S. Tuan, Ph.D.

\*Also receiving a Doctor of Medicine degree from Jefferson Medical College.

CANDIDATES FOR THE DEGREE OF DOCTOR OF MEDICINE

JEFFREY GENE ADAMS ..... New London, CT  
B.A., University of Vermont  
Surgery — Preliminary — University of Connecticut  
Hospital, Farmington, CT

JENNIFER LYNNE ADAMS ..... Jersey Shore, PA  
*cum laude*  
AOA  
B.S., The Pennsylvania State University  
Family Practice — Latrobe Area Hospital, Latrobe, PA

JATINDER P. AHLUWALIA ..... Montreal, Canada  
B.S., M.S., McGill University  
Internal Medicine — University of Iowa Hospitals and  
Clinics, Iowa City, IA

KAREN ELIZABETH ALEXANDER ..... Holland, PA  
B.A., University of Virginia  
Family Practice — York Hospital, York, PA

KEITH A. ANDREWS ..... Tiburon, CA  
B.S., University of California-Davis  
M.A., San Francisco State University  
Internal Medicine — Kaiser Permanente Medical  
Center, Santa Clara, CA

PAUL J. ANTAL ..... Wilmington, DE  
B.S., University of Richmond  
Family Practice — Medical University of South Carolina,  
Charleston, SC

PATRICIA ANN MARIE ARONICA ..... Dunmore, PA  
*cum laude*  
AOA  
B.S., University of Scranton  
Pathology — University Health Center of Pittsburgh,  
Pittsburgh, PA

MARGARET CATHERINE AVAGLIANO ..... Linden, NJ  
B.A., Bryn Mawr College  
Transitional — Overlook Hospital, Summit, NJ  
Radiology-Diagnostic — University of Medicine and  
Dentistry of New Jersey-New Jersey Medical School,  
Newark, NJ

SUPRITH BADARINATH ..... North Brunswick, NJ  
B.S., The Pennsylvania State University  
Internal Medicine — Emory University School of  
Medicine, Atlanta, GA

MATTHEW DON BARBER ..... West Chester, PA  
*summa cum laude*  
AOA  
B.S., The Pennsylvania State University  
Obstetrics and Gynecology — Duke University Medical  
Center, Durham, NC

DENNIS R. BEATTY ..... Bound Brook, NJ  
B.A., University of Pennsylvania  
Internal Medicine — Medical Center Hospital of  
Vermont, Burlington, VT

JENNIFER ANNE BEAUCHAMP ..... Watchung, NJ  
B.S., Lehigh University  
Obstetrics and Gynecology — Pennsylvania Hospital,  
Philadelphia, PA

CARL E. BECKER II ..... Lancaster, PA  
*magna cum laude*  
AOA  
B.A., Franklin and Marshall College  
Orthopaedic Surgery — Thomas Jefferson University  
Hospital, Philadelphia, PA

AOA — Alpha Omega Alpha Honor Medical Society

GEORGE LAWRENCE BECKER III ..... Franklin Lakes, NJ  
A.B., Dartmouth College  
Emergency Medicine — Thomas Jefferson University  
Hospital, Philadelphia, PA

MICHAEL DAVID BEITLE ..... Pittsburgh, PA  
AOA  
B.S., The Pennsylvania State University  
Obstetrics and Gynecology — Women and Infants  
Hospital, Providence, RI

JONATHAN BERKOWITZ ..... Stratford, CT  
B.S., University of Bridgeport  
Pathology — The Mount Sinai Hospital, New York, NY

SARA BOLAND ..... Charleston, WV  
B.Sc., St. Patrick's College  
Family Practice — Madigan Army Medical Center,  
Tacoma, WA

SRINIVAS S. BOLLIMPALLI ..... Chambersburg, PA  
B.A., Swarthmore College  
Transitional — Louis A. Weiss Memorial Hospital,  
Chicago, IL

PRODRAMOS GORDON BORBOROGLU ..... Boonton, NJ  
B.S., Muhlenberg College  
General Surgery — San Diego Naval Hospital,  
San Diego, CA

ALLISON H. BRITT KIMMINS ..... Philadelphia, PA  
B.A., Rosemont College  
Medicine — Preliminary — The Lankenau Hospital,  
Wynnewood, PA

FRANC WILLIAM BRODAR ..... Tucson, AZ  
B.S., University of Arizona  
Internal Medicine — Saint Joseph's Hospital and  
Medical Center, Phoenix, AZ

DANIELLE CAMPISI BRUDER ..... Philadelphia, PA  
*cum laude*  
B.S., Saint Joseph's University  
Internal Medicine — Thomas Jefferson University  
Hospital, Philadelphia, PA

JOHN B. BRUDER III ..... Drexel Hill, PA  
*summa cum laude*  
AOA  
B.S., Saint Joseph's University  
Internal Medicine — Hospital of the University of  
Pennsylvania, Philadelphia, PA

LE-HIEN THI BUI ..... Bristol, PA  
B.A., University of Pennsylvania  
Medicine — Preliminary — University of Medicine and  
Dentistry of New Jersey-Robert Wood Johnson  
Medical School, Cooper Hospital-University Medical  
Center, Camden, NJ

MELISSA ANNE BURKE ..... Chester Springs, PA  
*cum laude*  
A.B., Vassar College  
Pathology — Thomas Jefferson University Hospital,  
Philadelphia, PA

JAMES JOSEPH BUTTITTA ..... Seattle, WA  
B.S., Seattle University  
Internal Medicine — Virginia Mason Hospital,  
Seattle, WA

TRACY ROSE CALVO ..... Bellmawr, NJ  
B.S., University of Scranton  
General Surgery — The New York Hospital,  
New York, NY

DAVID MICHAEL CAPUZZI, JR. .... Haverford, PA  
B.A., University of Pennsylvania  
Pathology — Thomas Jefferson University Hospital,  
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CHRISTOPHER TIMOTHY CAREY ..... Norristown, PA  
B.S., Muhlenberg College  
Surgery — Preliminary — Pennsylvania Hospital,  
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NORMAN LIMJUCO CARLOS ..... Coraopolis, PA  
B.S., University of Pittsburgh  
Family Practice — Latrobe Area Hospital, Latrobe, PA

LISA CELESTE CEPPELELLI ..... Springfield, PA  
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Emergency Medicine — The Medical College of  
Pennsylvania, Philadelphia, PA

\*SULAGNA CHAKRABORTY ..... Poolesville, MD  
B.A., The Johns Hopkins University  
Pediatrics — Saint Christopher's Hospital for Children,  
Philadelphia, PA

NIVEDITA CHANDER ..... Lakewood, NY  
B.S., Muhlenberg College  
Internal Medicine — Rush-Presbyterian-Saint Luke's  
Medical Center, Chicago, IL

KENNETH CHANG ..... Torrance, PA  
B.S., The Pennsylvania State University  
Internal Medicine — Thomas Jefferson University  
Hospital, Philadelphia, PA

ROBERT YOUNGMEEN CHANG ..... Cherry Hill, NJ  
B.S., Haverford College  
Obstetrics and Gynecology — Stamford Hospital-  
New York Medical Center, Stamford, CT

JEFFREY CHAO ..... Mount Laurel, NJ  
B.S., The Pennsylvania State University  
Psychiatry — University of California-San Diego,  
San Diego, CA

CARL MATTHEW CHARNETSKI ..... Kingston, PA  
B.A., Wilkes University  
Internal Medicine — Geisinger Medical Center,  
Danville, PA

DAVID CHASEN ..... Huntingdon Valley, PA  
B.S., The Pennsylvania State University  
Pediatrics — Preliminary — Thomas Jefferson  
University-Delaware Children's Health Center,  
Philadelphia, PA

RAKESH RICK CHAWLA ..... Beaver Creek, OH  
B.S., The Pennsylvania State University  
Internal Medicine — Akron City Hospital, Akron, OH

\*CYNTHIA CHENG ..... Allentown, PA  
B.S., The Pennsylvania State University  
Family Practice — Thomas Jefferson University  
Hospital, Philadelphia, PA

PATRICK JOSEPH CHILES ..... Bethlehem, PA  
*cum laude*  
AOA  
B.S., University of Scranton  
Surgery — Preliminary — State University of New York  
Health Science Center, Syracuse, NY  
Otolaryngology — State University of New York Health  
Science Center, Syracuse, NY

AOA — Alpha Omega Alpha Honor Medical Society  
\*Also receiving a Doctor of Philosophy degree from the  
College of Graduate Studies

PATRICK THOMAS CHRISTY ..... Warren, PA  
B.S., The Pennsylvania State University  
Obstetrics and Gynecology — The Lankenau Hospital,  
Wynnewood, PA

RAYMOND KIMPON CHUNG ..... Erie, PA  
B.A., University of Pennsylvania  
Surgery — Preliminary — Pennsylvania Hospital,  
Philadelphia, PA

Orthopaedic Surgery — George Washington University  
Hospital, Washington, DC

CHRISTINA A. CIRUCCI ..... Easton, PA  
AOA  
B.S., Virginia Polytechnic Institute and State University  
Obstetrics and Gynecology — Medical College of  
Virginia, Richmond, VA

KELLY MICHELE CLARKE ..... Jackson, NJ  
A.B., Princeton University  
Pediatrics — Jackson Memorial Hospital, Miami, FL

DARIN J. CORRELL ..... Reading, PA  
B.A., Brandeis University  
Medicine — Preliminary — The Graduate Hospital,  
Philadelphia, PA  
Anesthesiology — Thomas Jefferson University  
Hospital, Philadelphia, PA

TODD ROBERT COVEN ..... Parsippany, NJ  
B.A., Bucknell University  
Internal Medicine — Lenox Hill Hospital,  
New York, NY

TODD SHANE CROCENZI ..... Etners, PA  
*cum laude*  
B.S., The Johns Hopkins University  
Internal Medicine — University of Maryland Medical  
Center, Baltimore, MD

WILLIAM WALTER CUPO ..... Souderton, PA  
B.S., The Pennsylvania State University  
Internal Medicine — Portsmouth Naval Hospital,  
Portsmouth, VA

IGNATIUS C. CYRIAC ..... Syosset, NY  
B.S., The Pennsylvania State University  
Transitional — Medical Center of Delaware-Christiana  
Hospital, Newark, DE  
Ophthalmology — Hahnemann University Hospital,  
Philadelphia, PA

DANIEL ANDREW DANYO ..... York, PA  
B.S., Ursinus College  
Surgery — Preliminary — Allegheny General Hospital,  
Pittsburgh, PA  
Physical Medicine and Rehabilitation — Emory  
University School of Medicine, Atlanta, GA

MERRY KATHERINE DEMKO ..... Hopenell, PA  
B.A., Temple University  
Family Practice — Shadyside Hospital, Pittsburgh, PA

CHRIS TERRY DERK ..... Dauphin, PA  
B.S., The Pennsylvania State University  
Internal Medicine — Abington Memorial Hospital,  
Abington, PA

GARY ALLEN DESIMONE ..... Philadelphia, PA  
B.A., The American University  
Internal Medicine — Washington Hospital Center,  
Washington, DC

STEVEN ANTHONY DICASTRO ..... Revere, MA  
A.B., Harvard University  
Emergency Medicine — University of Massachusetts  
Medical Center, Worcester, MA

ROBERT CHARLES DOBROWOLSKI ..... Allentown, PA  
B.S., Moravian College  
Internal Medicine — Texas A & M College of Medicine-  
Scott and White Memorial Hospital, Temple, TX

JOSEPH STEPHEN DUCAJI, JR. .... Mountaintop, PA  
*magna cum laude*  
AOA  
B.S., University of Scranton  
Anesthesiology — Mayo Graduate School of Medicine,  
Rochester, MN

JOHN ERIC DUDA ..... State College, PA  
B.S., The Pennsylvania State University  
Medicine — Preliminary — The Graduate Hospital,  
Philadelphia, PA  
Neurology — Thomas Jefferson University Hospital,  
Philadelphia, PA

THOMAS MICHAEL DUGGAN ..... Broomall, PA  
B.S., Villanova University  
Internal Medicine — National Naval Medical Center,  
Bethesda, MD

DEBORAH LYNNE EDBERG ..... Pittsburgh, PA  
A.B., Princeton University  
Family Practice — University of Connecticut Hospitals,  
Farmington, CT

AMY A. ELLIS ..... Whittier, CA  
B.A., Franklin and Marshall College  
Pediatrics — Phoenix Children's Hospital, Phoenix, AZ

JULIANNA ELIZABETH ESHBACH ..... Lancaster, PA  
B.S., Lafayette College  
Medicine — Preliminary — Loyola University Medical  
Center, Maywood, IL

FRANCES MARIE FEIGL ..... Bethlehem, PA  
A.B., Harvard College  
Psychiatry — Thomas Jefferson University Hospital,  
Philadelphia, PA

ROBERT ADAM FELBERG ..... Levittown, PA  
B.S., Tulane University  
Medicine — Preliminary — University of Connecticut  
Hospitals, Farmington, CT  
Neurology — Yale-New Haven Hospital,  
New Haven, CT

MICHAEL JAMES FIALHO ..... Philadelphia, PA  
*cum laude*  
B.A., La Salle University  
Internal Medicine — Mayo Clinic, Jacksonville, FL

PAUL IRVING FILE ..... Los Angeles, CA  
B.A., California State University, Northridge  
Emergency Medicine — Christ Hospital and Medical  
Center, Oak Lawn, IL

JONATHAN SCOTT FISH ..... Havertown, PA  
A.B., Harvard College  
Internal Medicine — University of Maryland Medical  
Center, Baltimore, MD

BRIAN CHRISTOPHER FORESMAN ..... Muncy, PA  
B.S., The Pennsylvania State University  
General Surgery — Mercy Hospital of Pittsburgh,  
Pittsburgh, PA

SUZANNE KAY FREITAG ..... Broken Bow, NE  
B.A., Duke University  
Transitional — Chestnut Hill Hospital, Philadelphia, PA  
Ophthalmology — Wills Eye Hospital, Philadelphia, PA

BARRY ROGER FULLER ..... Jackson, MI  
B.A., Hope College  
Transitional — Crozer-Chester Medical Center,  
Upland, PA  
Ophthalmology — Saint Luke's-Roosevelt Hospital  
Center, New York, NY

KRISTIN KAIN GALLI ..... Bryn Mawr, PA  
B.S., University of Notre Dame  
Medicine — Preliminary — The Lankenau Hospital,  
Wynnewood, PA  
Anesthesiology — Duke University Medical Center,  
Durham, NC

VIDU GARG ..... Export, PA  
B.S., The Pennsylvania State University  
Pediatrics — Ohio State University Hospitals,  
Columbus, OH

\*AMY ELIZABETH GEDDIS ..... Pittsburgh, PA  
*cum laude*  
AOA  
B.S., Chatham College  
Pediatrics — University Health Center of Pittsburgh,  
Pittsburgh, PA

KERIS MARIA GEORGE LOMAX ..... New York, NY  
B.A., University of Pennsylvania  
Medicine — Preliminary — The Graduate Hospital,  
Philadelphia, PA  
Ophthalmology — Temple University Hospital,  
Philadelphia, PA

SANDRA MCGOWAN GIBNEY ..... Wilmington, DE  
*summa cum laude*  
AOA  
B.S.P.E., M.S.P.E., University of Delaware  
Family Practice — Medical Center of Delaware-  
Christiana Hospital, Newark, DE

RAVI MULCHAND GIYANANI ..... Vineland, NJ  
B.S., The Pennsylvania State University  
Medicine — Preliminary — Pennsylvania Hospital,  
Philadelphia, PA  
Radiology-Diagnostic — Loyola University Medical  
Center, Maywood, IL

DENNIS RAYMOND GLOVER ..... Belle Vernon, PA  
B.S., Vanderbilt University  
Family Practice — Latrobe Area Hospital, Latrobe, PA

ELAINE LARA GOLDHAMMER ..... Philadelphia, PA  
B.A., University of Rochester  
Family Practice — Tulane University School of  
Medicine, New Orleans, LA

JOSHUA TODD GREEN ..... Rydal, PA  
AOA  
B.S., The Pennsylvania State University  
Urology — Jackson Memorial Hospital, Miami, FL

THOMAS GWILYM GREEN ..... Washington Mills, NY  
B.S., Utica College of Syracuse University  
M.A., State University of New York at Binghamton  
Radiology-Diagnostic — State University of New York  
Health Science Center, Syracuse, NY

JEAN PLZAK HAAB ..... Bryn Mawr, PA  
B.A., Duke University  
Internal Medicine — Thomas Jefferson University  
Hospital, Philadelphia, PA

TIMOTHY JOSEPH HENNESSY ..... Drexel Hill, PA  
B.S., Saint Joseph's University  
Internal Medicine — Medical Center of Delaware-  
Christiana Hospital, Newark, DE

JAMES RONALD HILLS ..... Philadelphia, PA  
B.S., University of Pennsylvania  
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KATHLEEN DWYER ..... Philadelphia, PA  
KELLY ANN FORD ..... Runnemede, NJ  
MIRIAM NOBLE GRAHAM ..... Bethesda, MD  
RICHARD HENRY HAGLEN ..... Philadelphia, PA  
GRETCHEN ANNE HARTEIS ..... York, PA  
NARESH RAMESH HINDUJA ..... Clifton, NJ  
ANGELA LYNNE FORSYTH ..... Bensalem, PA  
CHRISTOPHER FRANK JOSEPH ..... Blenheim, NJ  
COLLEEN MARIE KELLY ..... Havertown, PA  
JOSEPH C. LAIELLI ..... Elm, NJ  
SCOTT P. MALONE ..... Largo, FL  
DEBRA ELIZABETH MARTIN ..... Williamstown, NJ  
MARYANNE KATHLEEN MCINTYRE ..... Willow Grove, PA  
MARIA BEATRICE MCLAUGHLIN ..... Broomall, PA  
DAVID EDWARD OWENS ..... Mt. Laurel, NJ  
RESHMA MANU PATEL ..... Lanham, MD  
CELESTE TRICIA PEDERSON ..... Myerstown, PA  
TONYA RENEE POWELL ..... Stanardsville, VA  
STEPHEN JOSEPH RYAN ..... Malvern, PA  
GITU SATIJA ..... Vincentown, NJ  
PAULA ANNE SAVINO ..... Brookville, NY  
LEZLIE W. SCHWARTZ ..... Mt. Laurel, NJ  
LISA ANN SHORTER ..... Kinnelon, NJ  
JUDITH GAIL SHUFELT ..... Aston, PA  
AMY M. STRICKER ..... West Lawn, PA  
MAYNARD MARTIN TABACHNICK ..... Philadelphia, PA  
BRENDA ANN WABBY ..... Auburn, PA  
TINA MARIE WANNER ..... Fleetwood, PA  
KRISTIE LYNN WAYMAN ..... Ashtabula, OH  
IRENE WAI-MAN WONG ..... T.S.T., Kowloon, Hong Kong  
MICHAEL STEPHEN ZAZZALI ..... Point Pleasant, NJ  
LISA ANN ZIEGLER ..... Hanover, PA

Candidates for the combined B.S./M.S. Program in Physical Therapy have successfully completed all formal course work. They are also required to take two 8-week clinical internships, which will not be completed until August 26, 1994. 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 9, 1994

## FACULTY AWARDS

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

THOMAS J. NASCA, B.S., M.D., '75, Clinical Associate Professor of Medicine

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

RENATO V. IOZZO, M.D., Professor of Pathology and Cell Biology

*Blockley-Osler Award for Excellence in Teaching of Clinical Medicine to a Faculty Member of a Jefferson-Affiliated Hospital.*

ROBERT S. MCGREGOR, B.S., M.D., Clinical Associate Professor of Pediatrics, Geisinger Medical Center

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

JOHN R. PATTERSON, B.S., M.D. '54, Clinical Associate Professor of Medicine

## AWARDS TO GRADUATING STUDENTS

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

PAULA ANN LUNDGREN, (honorable mention: BRITT EDWARD SANFORD)

*The Orthopaedic Surgery Prize*, sponsored by the Department of Orthopaedic Surgery.

CARL E. BECKER II, (honorable mention: MARC JOHN LAMB)

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

CHRISTY ANN SALVAGGIO, (honorable mention: SULAGNA CHAKRABORTY)

*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.

JONATHAN SCOTT FISH

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

KIMBERLY KLIMEK RUHL, (honorable mention: PATRICIA ANN MARIE ARONICA)

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

SUZANNE KAY FREITAG, (honorable mention: JOHN CHRISTOPHER WITHERELL)

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

KRISTEN M. ROBSON, (honorable mention: ANNE CHRISTIAN KISTHARDT)

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

CATHERINE ANN JAKUBOWITCH, (honorable mention: FRANCES MARIE FEIGL)

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

JOHN B. BRUDER III, (honorable mention: MATTHEW DON BARBER)

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

MATTHEW DON BARBER, (honorable mention: JOHN B. BRUDER III)

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

CRISTINA MARIE CABRAL MANDANAS, (honorable mention: JENNIFER ANN TEMO)

*The Philip J. Hodes Prize in Radiology.*

RAVI MULCHAND GIYANANI, (honorable mention: JAMES RONALD HILLS)

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

MARY M. MANISCALCO, (honorable mention: SHARON ILENE ROSEN)

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

SANDRA MCGOWAN GIBNEY, (honorable mention: DANIELLE CAMPISI BRUDER)

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

TRACY ROSE CALVO, (honorable mention: LAUREN SBROLLINI MACALUSO)

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

JOHN ERIC DUDA, (honorable mention: JONATHAN SCOTT FISH)

*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.

JAMIE RAE McELRATH, (honorable mention: LAUREN SBROLLINI MACALUSO)

*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.

JERRY DALE WALKER, JR., (honorable mention: RAVI MULCHAND GIYANANI)

*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.

DENNIS R. BEATTY, (honorable mention: BRADEN KUO)

*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.

JULIA KAY SALWEN, (honorable mention: SEAN P. TIRNEY)

*The Philip and Bella Medoff Memorial Prize*, 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 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.

LAUREN SBROLLINI MACALUSO, (honorable mention: CARL E. BECKER II)

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

JOSEPH STEPHEN DUCAJI, JR., (honorable mention: DARIN J. CORRELL)

*The Hyman Menduke Research Prize*, sponsored by Dr. T. Michael LeWitt of the Class of 1974, 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.

BRITT EDWARD SANFORD

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

DANIELLE CAMPISI BRUDER, (honorable mention: JONATHAN SCOTT FISH)

*The Annie Simpson Pulmonary Medicine Prize*, awarded to the medical student who received the best general average in lung diseases.

KRISTEN M. ROBSON, (honorable mention: KAREN LYNN HOTCHKIN)

*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, M.D., Dean and Vice President of Jefferson Medical College from 1967 to 1981.

SHARON ILENE ROSEN, (honorable mention: RUPAL MEHTA)

*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, M.D., an alumnus of Jefferson Medical College.  
GEORGE LAWRENCE BECKER III, (honorable mention: ROBERT ALAN ROSENBAUM)

*The Arnold R. Weitz Memorial Prize in Hematology*.  
MATTHEW THOMAS WALKER

*The J. Woodrow Savacool Prize in Medical Ethics*, awarded to a 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, M.D., an alumnus and Honorary Clinical Associate Professor of Medicine, Jefferson Medical College.

TRACY ROSE CALVO, (honorable mention: MARY M. MANISCALCO)

*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.

RUPAL MEHTA and JOHN CHRISTOPHER WITHERELL

*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 which distinguish the finest primary care clinician.

JAMIE RAE McELRATH and RICHARD ANTHONY VAN METER

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

LISA CELESTE CEPPELELLI

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

RICHARD ANTHONY VAN METER

*The Sandoz Student Service Award*, presented to a student who has given generously of time and talents for the service of classmates and Jefferson Medical College.

RUPAL MEHTA

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

JENNIFER LYNNE ADAMS	KAREN LYNN HOTCHKIN
DANIELLE CAMPISI BRUDER	MARY M. MANISCALCO
MELISSA ANNE BURKE	RUPAL MEHTA
AMY ELIZABETH GEDDIS	SHARON ILENE ROSE
SANDRA McGOWAN GIBNEY	KIMBERLY KLIMEK RUHL

*The Lange Medical Publications Prize*, presented to an outstanding senior student. A gift of three Lange Publications books.

SUKEN ASHVIN SHAH

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

CHRISTINA A. CIRUCCI

### AWARDED TO A THIRD-YEAR STUDENT

*Jerome J. Cooper Scholarship Fund*. This scholarship is awarded annually to a student who shows outstanding all-around achievement. It was established by Elsie Cooper in memory of her son, and Delphine Cooper in memory of her husband, the children in memory of their father, and the sisters and brothers in memory of their brother.

GAMBRILL BRETT MURRAY

### DOCTOR OF SCIENCE — JEROME P. KASSIRER

Dr. Jerome P. Kassirer, the current Editor-in-Chief of the *New England Journal of Medicine*, is highly regarded for his achievements as a clinician, teacher, and medical scholar.

Dr. Kassirer received his M.D. degree Magna Cum Laude in 1957 from the University of Buffalo. After his residency at Buffalo General Hospital and training in nephrology at New England Medical Center in Boston, he was appointed Assistant Professor of Medicine at Tufts University, where he is still on the faculty and where, in 1974, he became a Professor of Medicine. From 1971 to 1991 he was Associate Physician-in-Chief of the New England Medical Center and Vice Chairman of the Department of Medicine at Tufts University School of Medicine.

Dr. Kassirer has published numerous original research and clinical studies, textbook chapters, and books on nephrology, medical decision making, and the diagnostic process. He has served on the editorial boards of several journals, including *The New England Journal of Medicine*, *Hypertension*, *Medical Decision Making*, and *Nephrology Forum* in the journal *Kidney International*. From 1985 to 1991 he was co-editor of *Clinical Problem Solving in Hospital Practice*.

Dr. Kassirer has been a visiting professor at many medical centers and has given numerous named lectureships. He was elected to AOA as a student and was named the AOA Distinguished Clinical Teacher of the year in 1989. He is a Master of the American College of Physicians, was named Distinguished Alumnus of 1991 by the School of Medicine and Biomedical Sciences at the University of Buffalo, and in the same year received the Distinguished Faculty award from Tufts University School of Medicine. He has honorary degrees from the University of Massachusetts and l'Universite Rene Descartes in Paris.

In addition, Dr. Kassirer served on the American College of Physicians' Board of Governors and Board of Regents, and chaired the National Library of Medicine's Board of Scientific Counselors. He is a Director of the American Board of Internal Medicine and a member of the Institute of Medicine of the National Academy of Sciences, the American Society of Nephrology, and a charter member of the Society for Clinical Decision Making.

Dr. Kassirer has written editorials on many topics since coming to *The New England Journal of Medicine* in 1991, including scientific misconduct, conflict of interest, diagnostic reasoning, electronic publishing, clinical trials, quality of medical care, medical education, and the hazards of handguns.

## DOCTOR OF SCIENCE — TAKASHI SUGIMURA

Dr. Takashi Sugimura is one of Japan's most distinguished and honored scientists. He currently serves as President Emeritus of the National Cancer Center of Japan, where he was President from 1984 to 1991. His career at the Center began in 1962 with his appointment as the chief of the biochemistry division. Since then he has been instrumental in making it one of the foremost cancer research sites in the world. In addition, he has recently assumed the role of Advisor to the Ministry of Health and Welfare in Japan.

Dr. Sugimura received his M.D. degree from Tokyo University in 1949 and his Doctor of Medical Science degree, also from Tokyo University, in 1957.

Dr. Sugimura's international reputation is based on many discoveries and achievements in cancer research, particularly concerning the mechanism and prevention of cancer. Space permits mentioning only a few of these achievements. In 1977 he and another scientist discovered the carcinogenicity of 4-nitroquinoline 1-oxide. Dr. Sugimura was the first scientist to relate bacterial mutagenicity to carcinogenicity, and, along with his co-workers, he demonstrated the parallel action of mutagens and carcinogens and observed the carcinogenic and mutagenic action of nitrofurans. In this area a notable discovery was the potent carcinogenic action of furylfuramide, a preservative used for many years in some Japanese foods. He has also done extensive pioneering research that uncovered a series of multisite carcinogenic heterocyclic amines produced through cooking meats and fish. This is currently a very active area of cancer research. Dr. Sugimura has also added greatly to the understanding of the concept of gene regulation in cancer through his finding of the switching on and off of various genes encoding certain isoenzymes. These findings have contributed to the current emphasis on multiple genetic steps in tumor development.

In addition to his substantial accomplishments as a researcher, Dr. Sugimura is also highly regarded by his colleagues for his leadership and organizational skills. He has been commended both for his open mindedness and his decisiveness, and he has used these skills in his many leadership roles. He is Editor-in-Chief of the *Japanese Journal of Cancer Research* and the *Japanese Journal of Clinical Oncology*. As Chairman of the Scientific Advisory Board of the Princess Takamatsu Cancer Research Foundation, he plays an important role in the Foundation's programs. He promoted excellence at the National Cancer Center through the recruitment of outstanding researchers and clinicians and fostered a spirit of unity among the research, clinical, and administrative staffs. Through his diligent efforts he was instrumental in the construction of a 350-bed hospital near Tokyo and the start of construction of another hospital on the main campus of the National Cancer Center.

His activity on the international level includes service as a consultant and counselor to numerous foundations, societies, and institutions. Dr. Sugimura also played a role in the establishment in 1989 of a series of joint conferences between the American Association for Cancer Research (AACR) and the Japanese Cancer Association.

Dr. Sugimura has been honored both within Japan and internationally. In addition to membership in the Japan Academy, he is a foreign associate member in the United States National Academy of Sciences, a foreign member in the Royal Swedish Academy of Sciences, the Royal Netherlands Academy of Arts and Sciences, and an honorary member in the AACR, the American Society of Biochemistry and Molecular Biology, and the Korean Cancer Association. He is the recipient of numerous international awards including the Charles S. Mott Prize of the General Motors Cancer Research Foundation (1991), The Ernst W. Bertner Memorial Award (1981), The Tomizo Yoshida Prize of the Japan Cancer Society (1992), and the Outstanding Work Award of the United States Environmental Mutagen Society (1978).

## 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 Jefferson Medical College, the College of Allied Health Sciences, the College of Graduate Studies, and the Thomas Jefferson University Hospital.

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 older 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 gowns for associates in arts and bachelors 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 art's 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 Burt Marx.

## THE PRESIDENTIAL BADGE OF THOMAS JEFFERSON UNIVERSITY

The president's badge was created for the inauguration of Lewis W. Bluemle, Jr., M.D. as 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. When worn by the President they are suspended from a black and blue ribbon, the University colors, united in the form of a circle with each seal comprising a top, bottom, right and left medallion.

The medallion on the President's right is the corporate seal of Thomas Jefferson University today and was created in 1969 when The 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 The Jefferson Medical College for many years. The oldest, at the bottom, 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 The Jefferson Medical College carried the seal of the parent institution, the Jefferson College in Canonsburg, Pennsylvania. The old corporate seal on the left bears the Latin words "Sigillum Jeffersoniani Medicinae Collegii-Philadelphiae" with no date.

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

The presidential badge is on permanent display in the Scott Memorial Library and is used at all convocations of the University.

