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# 1999 Commencement for Jefferson Medical College and College of Graduate Studies

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# 175TH COMMENCEMENT



Jefferson Medical College College of Graduate Studies

of

# Thomas Jefferson University

Philadelphia, Pennsylvania

1824-1999

Thursday, May Twenty-Seventh Nineteen Hundred and Ninety-Nine 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
OPENING PROCLAMATION	Board of Trustees
THE NATIONAL ANTHEM	Thomas Jefferson University
INVOCATION	Reverend Edward C. Bradley Thomas Jefferson University
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 Science Policy, Technology Development, and International Affairs 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	James S. Studdiford III, Clinical Assistant Professor of Family Medicine
Master of Science Presented by	Dean Saukkonen
CONFERRING OF HONORARY DEGREES	. President Brucker
Arlen Specter, Doctor of Laws Presented by	Chairman Farber
MACLYN McCarty, Doctor of Medical Science Presented by	Dean Saukkonen
BENEDICTION	. REVEREND BRADLEY
RECESSIONAL	. POMP AND CIRCUMSTANCEELGAR
THE REVEREND R. I	Bruce Todd, Organist
	Marshal Y Carabasi III
Faculty	Marshals

Faculty Marshals

BENJAMIN BACHARACH GERALD B. GRUNWALD

CLARA A. CALLAHAN CHRISTOPHER V. CHAMBERS KAREN D. NOVIELLI HOWARD K. RABINOWITZ

JAMES B. ERDMANN RICHARD R. SCHMIDT

MARION J. SIEGMAN

Student Marshals EUGENE H. CHUNG

YVETTE HICKMAN

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

# CANDIDATES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

ELIZABETH CAPPER (Developmental Biology & Teratology)	Lansdowne, PA
B.S., Chestnut Hill College Thesis Title: "An Analysis of Cadherin Function in Retinal Pigment Epithelium Development and Pathology." Thesis Advisor: Gerald B. Grunwald, Ph.D.	
*Lara Gayle Chepenik (Biochemistry & Molecular Biology)	Cherry Hill, NJ
Thesis Title: "Mechanisms by which the Cellular Protein, Pur-a, and HIV-1 Tat Mediate Transcription of Viral Ge Thesis Advisor: Kamel Khalili, Ph.D.	enes."
Brian Christopher Cho (Genetics)	Richmond, VA
B.S., Virginia Polytechnic Institute Thesis Title: "Transcriptional Regulation of PCNA and p21/wAF1 Reporter Constructs by p53." Thesis Advisor: W. Edward Mercer, Ph.D.	
Eugene Choi (Physiology)	Shavertown, PA
B.A., Cornell University  Thesis Title: "Adhesion Molecule Interactions are Required for Human Polymorphonuclear Neutrophils to Proteo a Matrix Barrier."  Thesis Advisors John T. Flynn, Ph.D.	lytically Penetrate
Thesis Advisor: John T. Flynn, Ph.D.	
CANDACE HOWARD-CLAUDIO (Genetics)	Grayson, KY
B.A., Transylvania University Thesis Title: "The Effects of RB2/p130 on Tumor Regenesis." Thesis Advisor: Antonio Giordano, M.D., Ph.D.	
Westley Friesen (Genetics)	Rryn Athyn PA
B.S., The Pennsylvania State University	150 21.0
Thesis Title: "Molecular Determinants of Zinc Finger RNA Interaction and Development of a Specific RNA Bind Thesis Advisor: Martyn Darby, Ph.D.	ing Protein."
RAMON J. GARCIA (Pathology & Cell Biology)	Maple Glen, PA
B.A., La Salle University Thesis Title: "Activation Mechanisms of Phospholipase D: An Ethanol Metabolizing Enzyme." Thesis Advisor: Jan B. Hoek, Ph.D.	
*OSCAR BAYLIN GOODMAN JR. (Molecular Pharmacology & Structural Biology)  B.A., Swarthmore College	Las Vegas, NV
Thesis Title: "Clathrin Assembly and Adaptor Recruitment in Receptor-Mediated Endocytosis." Thesis Advisor: J.H. Keen, Ph.D.	
Shawn Guerrette (Molecular Pharmacology & Structural Biology)	Madawaska, ME
B.A., Middlebury College Thesis Title: "Interaction between Human Mismatch Repair Proteins: Association with HNPCC."	
Thesis Advisor: Richard Fishel, Ph.D.	
*Andrew Robert Haas (Biochemistry & Molecular Pharmacology)	Williamsport, PA
B.S., Villanova University Thesis Title: "Chondrogenic Induction by Bone Morphongenetic Protein-2: Involvement of N-Cadherin Associated	L Eurotions "
Thesis Advisor: Rocky Tuan, Ph.D.	Tunctions.
Brett Maher Haltiwanger (Microbiology & Molecular Virology)	Denver, CO
B.S., Sweet Briar College Thesis Title: "Characterization of A DNA Base Excision Repair Pathway in the Malaria Parasite <i>Plasmodium falcig</i>	parum: From RIPs
to Repair." Thesis Advisor: Theodore Taraschi, Ph.D.	
MARSHA EILEEN HERSHBERGER (Biochemistry & Molecular Pharmacology)	Wynnewood, PA
Thesis Title: "Placental 57-kDaCa2+-Binding Protein: Regulation of Expression & Function in Trophoblast Differ	entiation &
Calcium Homeostasis." Thesis Advisor: Rocky Tuan, Ph.D.	
Jason Jongho Kang (Biochemistry & Molecular Pharmacology)	Blue Bell, PA
B.S., Carnegie-Mellon University Thesis Title: "Apoptotic Caspase Activation in the Yeast Saccharomyces cerevisiae."	
Thesis Advisor: Mary-Ann Biornsti, Ph.D.	

DAVID KOUBA (Biochemistry & Molecular Pharmacology)	ckoff, NJ
*JASON GARRETT KRUPNICK (Molecular Pharmacology & Structural Biology)	
B.S., The Pennsylvania State University	
I need a little: "Molecular Mechanisms of Regulation of Li Protein-Lounled Recentor Standing by Arrestins"	/alley, PA
Thesis Advisor: Jeffrey L. Benovic, Ph.D.	
*Mondira Kundu (Biochemistry & Molecular Biology)	Vayne, PA
B.S., The Pennsylvania State University Thesis Title: "Mutual Interactions between HIV-1 & Host Cell Cycle: Implications for Neuropathogenesis of AIDS Dementi Complex."	
Thesis Advisor: Kamel Khalili, Ph.D.	
TIMOTHY KENNETH MacLachlan (Genetics)	cuse, NY
B.S., Saint John Fisher College Thesis Title: "Characterization of the PITALRE & PISSLRE cdc2-related Kinases." Thesis Advisor: Antonio Giodano, M.D.	
CHARLES C. REED (Molecular Pharmacology & Structural Biology)	town, PA
B.S., Saint Joseph's University Thesis Title: "Ligand Recognition in Mutant Proteins."	
Thesis Advisor: Irene D. Weber, Ph.D.	
MAHMUT SAFAK (Biochemistry & Molecular Biology)	lphia, PA
M.S., West Chester University Thesis Title: "23-Base Pair Sequence Element and Its Role in JC Virus Gene Transcription." Thesis Advisor: Kamel Khalili, Ph.D.	
Dawn Marie Serio (Molecular Biology)	norne, PA
B.S., Loyola College Thesis Title: "Novel HIV-1 Therapeutic Agents based on Virion Targeted Viral Proteins." Thesis Advisor: Alagarsamy Srinivasamy, Ph.D.	
*Asit K. Shah (Biochemistry & Molecular Biology)	Vales, PA
B.S., University of Michigan Thesis Title: "Effects of TGF-B1 & BMP-2 on Osteoblasts at the Bone-Biomaterial Interface." Thesis Advisor: Rocky Tuan, Ph.D.	
SCOTT STEELMAN (Microbiology & Immunology)	allas, PA
B.S., Wilkes University Thesis Title: "Members of the Meisi Homeoprotein Family are Involved in Binding The Laminin B1 Enhancer." Thesis Advisor: Arthur M. Buchberg, Ph.D.	
Frank J. Taddeo (Pathology, Anatomy & Cell Biology)	avne. PA
B.S., Grove City College Thesis Title: "Cloning Expression & Purification of Protein Kinase C: A Comparative Study of the Modes of Activation of P. Thesis Advisor: Christopher Stubbs, Ph.D.	
Darin P. Trelka (Pathology & Cell Biology)	ogton PA
B.A., Washington and Jefferson College Thesis Title: "The Ins & Outs of Macromolecular Transport in Malaria-Infected Erythrocytes." Thesis Advisor: Theodore F. Taraschi, Ph.D.	gron, 171
Jon Alec Ukropec (Physiology) Walling	rford DA
B.S., Temple University Thesis Title: "Regulation of Human Endothelial Cell Adherens Junctions by Fluid Shear Stress." Thesis Advisor: Marilyn J. Woolkalis, Ph.D.	giold, TA
A CONTRACTOR OF THE CONTRACTOR	De la constitución de la constit
Marisa Wagner (Biochemistry & Molecular Biology)	
Thesis Advisor: Edward Winter, Ph.D.	
JUDITH AFEDUA WUBAH (Developmental Biology & Teratology)	e, Ghana
B.S., B.Ed., University of Cape Coast Thesis Title: "A Model for Gene-Teratogen Interaction in Early Mouse Embryos." Thesis Advisor: Thomas B. Knudsen, Ph.D.	

<sup>\*</sup>Also receiving a Doctor of Medicine degree from Jefferson Medical College

<sup>\*</sup>Also receiving a Doctor of Medicine degree from Jefferson Medical College

# CANDIDATES FOR THE DEGREE OF DOCTOR OF MEDICINE

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<sup>\*</sup>Also receiving a Doctor of Philosophy degree from the College of Graduate Studies.

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Orthopaedics — Thomas Jefferson University Hospital, Philadelphia, PA
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Medical Center, CA

Cristopher Jon Garlitz Hickory, NC cum laude AOA
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Urology — Thomas Jefferson University Hospital, Philadelphia, PA
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Medicine, Reno, NV
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LORI JANE GILBERTSchenectady, NY B.A., University of California, Los Angeles Medicine-Preliminary — Lankenau Hospital,
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LINDA RAMONA GILLESPIEPhiladelphia, PA
B.A., The Johns Hopkins University Internal Medicine — Christiana Care, Newark, DE
Kevin Michael Gilroy Mechanicsburg, PA
B.S., University of Pittsburgh
nternal Medicine — Greenville Hospital System, SC
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	The Pennsylvania State University
	trics — Thomas Jefferson University/DuPont
(	Children's Hospital, Philadelphia, PA
Матт	HEW FRANCIS GRADY Dover, DE
cum l	
AOA	
	Saint Joseph's University
Pediat	trics — The Johns Hopkins Hospital, Baltimore, MD
JEREM	y Seth Grayson Princeton, NJ
	Duke University
	al Medicine-Preliminary — Albert Einstein Medical Center, Philadelphia, PA
Radio	logy-Diagnostic — Albert Einstein Medical Center,
P	Philadelphia, PA
SAMAN	VTHA GRILLO Birmingham, AL
	Simon's Rock College of Bard
	ry — San Diego Naval Medical Center, San Diego, CA
IESSIC	A D. GROSSMAN
	Bradeis University
	trics and Gynecology — Pennsylvania Hospital,
	hiladelphia, PA
*ANDR	REW ROBERT HAAS Williamsport, PA
cum le	#4 93
AOA	
	Villanova University
	al Medicine — Hospital of University of
P	ennsylvania, Philadelphia, PA
JENNIFI	ER ANN HAGERCoaldale, PA
	University of Notre Dame
	Practice — Abington Memorial Hospital,
A	bington, PA
CHRIST	OPHER ANDREW HAINES Sewell, NJ
	University of Pennsylvania
	Practice — Thomas Jefferson University Hospital,
	hiladelphia, PA
FRANCI	s X. Hall Port Jefferson, NY
	Jnited States Naval Academy
	al Medicine — San Diego Naval Medical Center,
	an Diego, CA
RAEAN	IN DENISE HAMILTON San Diego, CA
	California Polytechnic State University
	ency Medicine — Eastern Virginia Medical School,
	orfolk, VA
DANIEL	P. Hepburn Langhorne, PA
	University of Colorado
	Practice — Bryn Mawr Hospital, Bryn Mawr, PA
DAVID 1	MILLER HEYDT Hershey, PA
	Skidmore College
	y-Preliminary — Pennsylvania Hospital,
PH	niladelphia, PA

AOA — Alpha Omega Alpha Honor Medical Society
\*Also receiving a Doctor of Philosophy degree from the College of Graduate Studies.
† Also receiving a Masters of Business Administration from Widener University.

BENJAMIN LASHAR HOCHBerwyn, PA
summa cum laude B.A., University of Colorado
Pathology — Barnes-Jewish Hospital, St. Louis, MO
STEVEN BARRY HOLSTEN JR Monson, MA
B.A., Colby College
Surgery — Medical College of Georgia, Augusta, GA
STEPHANIE ANN HOUSER Lehighton, PA
B.S., University of Colorado Surgery Thomas Jefferson University Hespital
Surgery — Thomas Jefferson University Hospital, Philadelphia, PA
JASON THOMAS HUFFMAN San Diego, CA
B.S., University of California, Davis
Orthopaedics — University of Southern California,
Los Angeles, CA
Joshua Maier Hurwitz
B.A., Cornell University
Obstetrics and Gynecology — Thomas Jefferson University
Hospital, Philadelphia, PA
MELODIE TRINIDAD ICASIANO Wilmington, DE
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Obstetrics and Gynecology — Lankenau Hospital,
Wynnewood, PA
SAREENA JASPAL
B.A., University of Pennsylvania
Pediatrics — Children's Hospital, Oakland, CA
JAY STUART JENOFF Marlton, NJ
B.A., Rutgers University
Internal Medicine — Thomas Jefferson University Hospital,
Philadelphia, PA
SCOTT EDMUND JENSEN
B.S., Emory University
Surgery-Preliminary — Lenox Hill Hospital, New York, NY
KEVIN WALKER JOHNSON Traverse City, MI
AOA B.A., University of Michigan
Pediatrics — Wright Patterson Air Force Medical Center,
Wright Patterson Air Force Base, OH
SHENNA RENEE KEENE
B.A., University of Pennsylvania
Family Practice — Franklin Square Hospital,
Baltimore, MD
IMRAN AHMAD KHAN Bloomfield Hills, MI
cum laude
B.S., The Pennsylvania State University
Orthopaedics — McLaren Regional Medical Center, Flint, MI
I lim, 1911

STEVEN MAKOTO KODAMA Tacoma, WA B.A., Boston University
Emergency Medicine — Yale-New Haven Hospital, New Haven, CT
IRA DAVID KORNBLUTH
Medicine-Preliminary — Washington Hospital Center, Washington, DC
Physical Medicine and Rehabilitation — Thomas Jefferson University Hospital, Philadelphia, PA
Aruna Krishnan Edison, NJ cum laude
AOA
B.S., The Pennsylvania State University Internal Medicine — Barnes-Jewish Hospital, St. Louis, MO
*JASON GARRETT KRUPNICKHuntingdon Valley, PA B.S., The Pennsylvania State University
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*Mondira Kundu
Anna Louise Kvasnicka
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Obstetrics and Gynecology — Lankenau Hospital, Wynnewood, PA
CHARLES JONGWOO LEE
Internal Medicine — Brown University Internal Medicine Residency, Providence, RI
STEPHANIE ANNE LEE
Internal Medicine — Christiana Care, Newark, DE
SUNGCHUN LEE
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Transitional — Crozer-Chester Medical Center, Upland, PA Ophthalmology — Manhattan Eye, Ear and Throat Hospital, New York, NY

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PEGGY LIN
MICHELE SAINT FRAN Lo
ELIZABETH B. LOUKA
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LISA MACKOWIAK
JOHN B. MAGGIONCALDA
TIMOTHY CRAIG MALYK
MARIA CUOCOLO MANCUSO
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cum laude
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University Hospital, Philadelphia, PA
SARAH CULLEN McBride Mystic, C
B.S., Haverford College
Pediatrics — Children's Hospital, Philadelphia, PA
MEREDITH CHRISTINE McCORMACK
B.S., Duke University
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Philadelphia, PA
KENNETH ROBERT McElynn Erie, Pz
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DENNIS MICHAEL McGorry Jr Allentown, P.
AOA
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Internal Medicine — Christiana Care, Newark, DE
PHILIP ALDO MINOTTI JRAndover, MA
cum laude
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GAUTAM MISHRA Dewitt, N
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B.S., Boston College
Transitional — Crozer-Chester Medical Center, Upland, PA
Ophthalmology — Wake Forest University Eye Center,
Winston-Salem, NC
LAURA NICOLE MODZELEWSKI Hammonton, N
B.S., Villanova University
Emergency Medicine — University of Connecticut Hospital
Farmington, CT

My Gia Nguyên
M.S., Georgetown University
J.D., Columbia University School of Law Family Practice — Hunterdon Medical Center,
Flemington, NJ
Sonny Van Nguyen
Internal Medicine — Thomas Jefferson University Hospital, Philadelphia, PA
SEAN PATRICK O'BRIENPunxsutawney, PA B.A., Washington and Jefferson College
Transitional — San Diego Naval Medical Center, San Diego, CA
RENEE LYNN OBERLANDER Elkton, MD B.A., University of Delaware
Family Practice — Crozer-Keystone Health, PA
DANA ANN OBZUT Brandonville, PA B.S., King's College
Pediatrics — Rush/Presbyterian/St. Luke's Hospital, Chicago, IL
ERIC MICHAEL ORNDORFF
Internal Medicine — Christiana Care, Newark, DE
CHRISTOPHER T. OSWALD Sassamansville, PA AOA
B.S., Lehigh University Internal Medicine — University of North Carolina Hospital, Chapel Hill, NC
NICCOLE MAMBU OSWALD Cheltenham, PA B.S., Muhlenberg College
Family Practice — University of North Carolina Hospital, Chapel Hill, NC
SUSAN J. PAK
Surgery — Union Memorial Hospital, Baltimore, MD
JOHN ROBERT PENDER IV Charlotte, NC
B.A., The University of the South
Surgery — University Health System East Carolina, NC
Anastasia Petro
magna cum laude AOA
B.S., Carnegie Mellon University
Medicine-Preliminary — University Health Center, Pittsburgh, PA
Dermatology — University of Michigan Hospitals, Ann Arbor, MI
Trang Mai Pham Silver Spring, MD
B.A., The Johns Hopkins University
Family Practice — Hospital of University of Pennsylvania, Philadelphia, PA

LISA MARIE PHELPS
Family Practice — Bayfront Medical Center, St. Petersburg, FL
GINIENE MARGARET PIRKLE Ewa Beach, HI B.S., Lehigh University
B.A., Lehigh University
Obstetrics and Gynecology — Eastern Virginia Medical School, Norfolk, VA
MICHELLE LYNNE POHLAND Pittsburgh, PA B.S., The Pennsylvania State University
Transitional — Western Pennsylvania Hospital, Pittsburgh, PA
Radiology-Diagnostic — Western Pennsylvania Hospital, Pittsburgh, PA
ALISSA MARIE POPPITI
Family Practice — Wake Forest University Baptist Medical Center, Winston-Salem, NC
SUSAN ELIZABETH PORTER
Pathology — Cleveland Clinic Foundation, Cleveland, OH
Kristine Lynn Profeta Short Hill, NJ cum laude
AOA
B.A., Harvard University
Surgery — New York Presbyterian Hospital, New York, NY
JULIE H. PROSSEDA
B.A., University of Delaware Family Practice — Thomas Jefferson University Hospital, Philadelphia, PA
ANUDEEP KAUR RAHIL
AOA
B.S., The Pennsylvania State University  Medicine-Preliminary — Abington Memorial Hospital,
Abington, PA Dermatology — Stonybrook Teaching Hospitals, NY
JENNIFER JOY RANEY Atlanta, GA
B.A., Williams College Family Practice — Memorial Hospital, Pawtucket, RI
ALEXA R. RAYMOND Barrington, RI
B.A., Gettysburg College Family Practice — Overlook Hospital, Summit, NJ
PHILLIP R. REEVES Lafayette Hill, PA A.A., Philadelphia College of Performing Arts
Psychiatry — Thomas Jefferson University Hospital, Philadelphia, PA
RENÉE ELIZABETH RIDDLE
B.S., Muhlenberg College Pediatrics — Thomas Jefferson University/DuPont
Children's Hospital, Philadelphia, PA

	ABETH RIFFLE Escondido, CA
	ith College
Pediatrics	- Cedars-Sinai Medical Center, Los Angeles, CA
	. RILEY JR Churchville, PA
	- St. Mary's Hospital, Waterbury, CT
	BERTS Pittsburgh, PA
	Pennsylvania State University actice — Florida Hospital, Orlando, FL
	ROHATSCH IIIFort Worth, TX
Transition Emergency	State University, Sacramento al — Greenville Hospital System, Greenville, SC y Medicine — University Health Science Center, sonville, FL
	RNEST ROSATO JRBryn Mawr, PA
Surgery -	nova University  - Thomas Jefferson University Hospital, delphia, PA
	vid Rosen
Family Pra	versity of Pittsburgh actice — Abington Memorial Hospital, gton, PA
	Frederick Rosenfeld Bryn Mawr, PA
	Johns Hopkins University ics — Union Memorial Hospital, Baltimore, MD
B.S., The	Preliminary — Lankenau Hospital,  Mount Laurel, NJ Pennsylvania State University Preliminary — Lankenau Hospital,
Wynn Radiology	newood, PA -Diagnostic — University of Maryland Medical er, Baltimore, MD
MICHAEL L	OUIS SALAMON Stockton, CA
B.S., Univ Orthopaed	ersity of Michigan ics — University of California, Davis Medical
Cente	r, Davis, CA
B.A., Univ	SALVIN
	BERT SARKISIAN JR
	ton College al — Chestnut Hill Hospital, Philadelphia, PA
B.A., Bost	ON College nova University
Family Pra	actice — Thomas Jefferson University Hospital, delphia, PA
	D C T W J TW
B.A., Brow	Parker SchwartzForth Worth, TX vn University  — University Hospital, Cincinnati, OH
B.A., Brow	vn University

THOMAS CHRISTOPHER SCOTT
*Asit K. Shah
NIRAV K. SHAH Lansdale, PA cum laude AOA B.S., The Pennsylvania State University
Surgery-Preliminary — University of Maryland Medical Systems, Baltimore, MD Neurological Surgery — University of Maryland Medical Systems, Baltimore, MD
GREGORY LEE SHANGOLD Easton, CT cum laude AOA
B.A., University of Pennsylvania Emergency Medicine — PennState Geisinger Health System, Danville, PA
Daniel Adam Shoemaker
BRIAN LESTER SHRAGER
REBECCA SIMONS
CONRAD HANS SIMPFENDORFER Moreland Hills, OH B.S., Syracuse University Surgery — Cleveland Clinic Foundation, Cleveland, OH
KERN SINGH Englewood, CO cum laude AOA B.S The Pennsylvania State University
Orthopaedics — Rush/Presbyterian/St. Luke's Hospital, Chicago, IL
IAN ALEXANDER STEWART SMITH
VIRGINIA RAVENSCROFT SMITH Stony Creek, CT cum laude AOA
<ul> <li>B.S., Brown University</li> <li>Medicine-Primary — Rhode Island Hospital/Brown University, Providence, RI</li> </ul>
JEFFREY M. SPARKMAN

AOA — Alpha Omega Alpha Honor Medical Society

<sup>\*</sup>Also receiving a Doctor of Philosophy degree from the College of Graduate Studies.

<sup>†</sup> Also receiving a Masters of Business Administration degree from the Widener University.

Patricia G. Stewart	SCOTT ERIK WAGNER Huntingdon Valley, PA
B.A.L.S., University of Delaware	B.A., Boston University
Psychiatry — National Capital Consortium, Washington, DC	Emergency Medicine — Palmetto Richland Memorial Hospital, Columbia, SC
Dawn Leigh Swarm Santa Monica, CA	
B.S., Pepperdine University	STEVEN CRAIG WAGNER Perkasie, PA
Orthopaedics — Thomas Jefferson University Hospital,	summa cum laude
Philadelphia, PA	AOA
	B.S., Ursinus College
LUCINDA FISHER SWARTZ Albuquerque, NM	Transitional — University of Pennsylvania Health System/
B.M., University of New Mexico	Presbyterian, Philadelphia, PA
M.M., City University of New York - Queens College	* 100
Family Practice — West Jersey Health System, NJ	SOPHIA WAMSLEY Santa Rosa, CA
Service and Servic	B.A., University of California, Davis
SAIF UDDIN SYED	Medicine-Preliminary - St. Mary's Medical Center,
B.S., The Pennsylvania State University	Long Beach, CA
Dermatology — Allegheny University Hospitals,	Ophthalmology — University of Wisconsin Hospital,
Pittsburgh, PA	Madison, WI
Tittsburgh, 17	Wadison, Wi
PAUL JAMES TAPINO Staten Island, NY	LAWRENCE DAVID WARD Washington, DC
B.S., Cornell University	magna cum laude
Transitional — University of Pennsylvania Health System/	AOA
Presbyterian, Philadelphia, PA	
Ophthalmology — Scheie Eye Institute /University of	B.S., Emory University Medicine-Primary — Hospital of University of
Pennsylvania, Philadelphia, PA	Pennsylvania, Philadelphia, PA
CANDAGE ANN TESCH	MEREDITH ANN WARNERMiddletown, DE
CANDACE ANN TESCHTroy, MI	
B.S., Michigan State University	B.A., University of Delaware
Pediatrics — St. Christopher's Hospital, Philadelphia, PA	Orthopaedics — Tulane University School of Medicine,
Power I Towns of the MD	New Orleans, LA
ROSLYN J. THOMAS	I D W
B.S., The Pennsylvania State University	JOHN BENSON WELCH Lebanon, PA
Pediatrics — Thomas Jefferson University/DuPont	B.S., The Pennsylvania State University
Children's Hospital, Philadelphia, PA	Family Practice — Pinnacle, Harrisburg, PA
Comp Towns Control IIII FI	C. D. H. D.
SATISH R. TIYYAGURA	Francis Joseph Welsh Saint Davids, PA
B.S., The Pennsylvania State University	summa cum laude
Internal Medicine — Thomas Jefferson University Hospital,	AOA
Philadelphia, PA	B.A., Franklin and Marshall College
Walter wa	Surgery — Baylor College of Medicine, Houston, TX
MASAKO UEDA Cherry Hill, NJ	
B.A., University of Pennsylvania	TIMOTHY FARRINGTON WETHERILL Philadelphia, PA
Internal Medicine — University of Medicine and Dentistry	B.A., Dartmouth College
of New Jersey-Robert Wood Johnson Medical Center,	Surgery-Preliminary — PennState Geisinger Health System,
Piscataway, NJ	Danville, PA
Tara Nicole Vandegrift Philipsburg, PA	JULIA CHRISTINE WITMER Kennett Square, PA
B.A., University of Pennsylvania	B.A., University of Virginia
Family Practice — Medical University of South Carolina,	Family Practice — Abington Memorial Hospital,
Charleston, SC	Abington, PA
Description Viscouries and Description	W W
Paul Punzalan Villasenor Seaford, DE	Marsha Nicole Wittink Ithaca, NY
B.A., University of Delaware	B.A., Cornell University
Family Practice — Bryn Mawr Hospital, Bryn Mawr, PA	Family Practice — Thomas Jefferson University Hospital,
	Philadelphia, PA
Ashish Kumar WadhwaSan Clemente, CA	
magna cum laude	JON CHARLES YEARGAN Beckley, WV
AOA	cum laude
B.S., The Pennsylvania State University	AOA
Surgery-Preliminary — University of California, Irvine	B.A., Washington and Lee University
Medical Center, Irvine, CA	Family Practice — Abington Memorial Hospital,
Otolaryngology — University of California, Irvine Medical	Abington, PA
Center, Irvine, CA	

CONSTANCE MIAO-LENG YUAN Norfolk, VA
B.S., The Pennsylvania State University
Pathology — Hospital of University of Pennsylvania,
Philadelphia, PA
Javwaud Ahmad Zafar Cressona, PA
B.A., University of Pennsylvania
Medicine-Preliminary —Lankenau Hospital,
Wynnewood, PA
Radiology-Diagnostic — Wayne State University/Detroit Medical Center, Detroit, MI
MATTHEW BENJAMIN ZAVOD Haddam, CT
B.A., Dartmouth College
Surgery-Preliminary — University of Vermont/Fletcher Allen, Burlington, VT
Otolaryngology — Medical Center Hospital of Vermont,
Burlington, VT
HEATHER M. ZINZELLA
cum laude
AOA
B.A., Washington and Jefferson College
Family Practice — Christiana Care, Newark, DE
RAHEL ZUBAIRI
B.S., University of Maryland
Medicine-Pediatrics — Albert Einstein Medical Center, Philadelphia, PA

# CANDIDATES FOR THE DEGREE OF MASTER OF SCIENCE IN BIOMEDICAL CHEMISTRY

Blue Bell, PA Philadelphia, PA Mullica Hill, NJ
Mullica Hill, NJ
North Wales, PA
Philadelphia, PA
Philadelphia, PA
Havertown, PA
Oklahoma City, OK
Norristown, PA
Somerdale, NJ

# CANDIDATE FOR THE DEGREE OF MASTER OF SCIENCE IN DEVELOPMENTAL BIOLOGY AND TERATOLOGY

RACHEL BECK	Collegeville, PA

# CANDIDATES FOR THE DEGREE OF MASTER OF SCIENCE IN GENETICS

Yufei Xiang	Shanghai, F	PRC
DEBORAH LYNN ZAMBONI	New Cumberland,	, PA

# CANDIDATE FOR THE DEGREE OF MASTER OF SCIENCE IN IMMUNOLOGY

PATRICIA	Δ	Brafford	. Newport	Newe	VΔ
FAIRICIA	<b>n</b> .	DKAFFUKD	. INCW DOIL	INCWS.	VA

# CANDIDATES FOR THE DEGREE OF MASTER OF SCIENCE IN MICROBIOLOGY

STEPHEN WILLIAM ANDERSON	Wyomissing, PA
Maureen Theresa Bellafante	Exton, PA
Keith Bowen	
JEAN MARIE CHAMPION	Exton, PA
Brian Christopher Dale	
Kristen Marie Delin	
MATTHEW T. EBLING	Reinholds, PA
Vimala Rose Fernandez	
Deborah Sara Fishman	
DAVID LAWRENCE GREEN	
Tracey M. Henderson	Philadelphia, PA
Wan Sang Kwan	Philadelphia, PA
NANCY LEE LEISNER	Philadelphia, PA
BERNADETTE MARIA MANDES	Ivyland, PA
Kristin N. Naper	
Maria Emanuela Palumbo	Pottstown, PA
MAMATA P. PATEL	Fairless Hill, PA
SHELBY MARIE RHOADS	
KAREN PATRICIA RIDDICK	
EDWARD M. SCUBELEK	
LARISSA DAIMASY SLAVICH	Santo Domingo, Dominican Republic
LAURA A. SPANO	New York, NY
JON ERIK STEK	
JEFFREY JAHAN VAKIL	Moylan, PA
ARLYNDA A. VALENTINO	West Chester, PA
SALVATORE U, VITELLI	Ardsley, PA
Jun Yang	Philadelphia, PA
Denise J. Zwier	Wilmington, DE

# CANDIDATES FOR THE DEGREE OF MASTER OF SCIENCE IN NURSING

F	ATRICIA ANN BERKES	Cherry	Hill,	N
S	TEPHANIE MARIE BRADLEY	West Che	ester,	P
Ι	Poris A. Cush-Walker	Philadelp	phia,	P

LISA H. DOWNS	W. 11.11
AIDA LUZ EGUES	Philadelphia, PA
Julia Finlay	Washington Townshsip, NJ
CHRISTINE ADAMS COOKE FORWARD	Philadelphia, PA
LINDA CHRISTINE LANKENAU	Medford, NJ
MARGARET LEITER	Newark, DE
NOREEN B. MACCULLOUGH	Haddon Township, NJ
ROBIN K MILLER	Philadelphia, PA
SANDRA R. PINCIN	
SHVANA ANDREA POLETATAL	Langhorne, PA
LANGE D. SCANION	Cherry Hill, NJ
Pannan Court Hone	Philadelphia, PA
LODDANIS M. SARTI	Yardley, PA
LORRAINE IVI. SMITH	Philadelphia, PA
JAMIE STRAUSE	Mt. Laurel, NJ
KANNIKA THONGUBON	
LORI ANN WILLIAMS	Mt Laurel NI
LISA H. DOWNS  AIDA LUZ EGUES  JULIA FINLAY  CHRISTINE ADAMS COOKE FORWARD  LINDA CHRISTINE LANKENAU  MARGARET LEITER  NOREEN B. MACCULLOUGH  ROBIN K. MILLER  SANDRA R. PINCIK  SILVANA ANDREA POLETAJEV  JANET P. SCANLON  BARBARA SCHELLHORN  LORRAINE M. SMITH  JAMIE STRAUSE  KANNIKA THONGUBON  LORI ANN WILLIAMS  LINDA MARIE ZIMMERMAN	York, PA

# CANDIDATES FOR THE DEGREE OF MASTER OF SCIENCE IN OCCUPATIONAL THERAPY

NICOLE CAPOZELLO	Davida DA
SANDRA J. CHUN	II II I DI
KAIII A. DAKCI	DI A STATE OF THE
CHRISTINE DZIUBCZINSKI	
ESTHER MISRAHI ELTING	Prospect Park, PA
KATHLEEN MULQUEEN FOX	Manalapan, NJ
KENNETH KEITH GENTRY, JR.	Gladwyne, PA
STACY J. HOCHHEISER	Great Falls, MT
Magdalen Joseph	Wilmington, DE
DEBRA A. KAPLAN	St. Croix, Virgin Islands
VICTORIA A. KUNKEL	
KELYE V. KUNZ	Bedford, OH
CONNIE LEE	Eastampton, NJ
CONNIE LEE	Bayside, NY
Angela D. Mahoney  Anne-Marie O'Brien	Philadelphia, PA
Anne-Marie O'Brien	Sloatsburg, NY
LORI L. PORTER	
SUZANNE MARIE PROVOST	
SHOSHANNA MUSIC RABIN	Augusta, GA
ANDREA HOPE RAUBE	
KAREN ANN REISS	
TAMI M. SANDER	
DARA JANE OCHNEIDER	6 : 6 !! 5!
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MICHELLE A. TOMLINSON	The state of the s
ALESSANDRA VERSACE	Was a few productions of the control
ONA MARIE WALSH	Daniel
Danielle Christine Wilson	C. II

# CANDIDATES FOR THE DEGREE OF MASTER OF SCIENCE IN PHARMACOLOGY

MICHAEL I. BARBER	Marie Williams
ELIZABETH I. FISCHER	Marion Heights, PA
AMY MARAH HARTH	Souderton, PA
KERN G. TOUROUS	Spring House, PA
JEN-PYNG KOU	Langhorne, PA
MICHAEL I. BARBER  ELIZABETH I. FISCHER  AMY MARAH HARTH  KERN G. JOLIBOIS  JEN-PYNG KOU  THANE DALEY McCANN	Cherry Hill, NJ
BALKRUSHNA CHHAGANLAL PANCHAL	Bensalem, PA
JOHN PATRICK PATTERSON	
Andrea Michelle Roth	Glendale, NY
WILLIAM ANDREW STEVENS	Philadelphia, PA
WILLIAM EDWARD WIXTED	Ardmore, PA
TABLES LOWARD WINTED	Linwood NI

#### CANDIDATES FOR THE DEGREE OF MASTER OF SCIENCE IN PHYSICAL THERAPY

JENNIFER ANN BARTOS	Bethlehem, PA
DANIEL PAUL BIEN	Philadelphia, PA
TRAVIS ALEXANDER CARLTON	Walnutport, PA
Andrea Lynn Christianson	Fairmont, MN
KATHERINE MAURA CLANCY	Collingswood, NJ
DEBORAH L. DAWSON	
KIMBERLY J. DEECK	Philadelphia, PA
PAUL M. DELLA VECCHIA, JR.	Cherry Hill, NJ
Peter R. Elser	York, PA
KIMBERLY MARIE FISHER	Boyertown, PA
JODEE L. GAHRS	
JOSEPH T. GALLAGHER	
GREGORY R. GARMAN	
Angela Marie Gordon	
Denise Justis	New Castle, DE
CHRISTOPHER M. KACZMAREK	
JAMES A. KELLEHER	
CHERYL L. LANDRY	
KIMBERLY J. LESSER	
CHRISTOPHER ARMSTRONG LEVAN	
HEATHER MARIE MACLAUGHLIN	Wilmington, DE
MELANIE M. MUNYAN	
Susan Marie Nier	
JOSEPH D. OBERHOLZER	
KRISTI RENEE OLSON	
STEPHANIE MARIE O'REILLY	
GLENN LEWIS READ	
DINA MARIE ROBBINS	
Brett G. Schiemer	
KEVIN L. SCHMIDT	
Maureen Higgins Seasholtz	Devon, PA
JOHN W. SHARPE	
Jennifer E. Shaw	
MATTHEW P. SHEDLOCK	
DMITRY SLUTSKY	
GLEN ANDREW SUMMERS	
Debra L. Tedeschi	
ROBYN LYNNE TOWNER	
DEREK CHRISTIAN TUOHY	
Valerie Visalli-Drury	
CHRISTINE VLAHOS	
JASON MATTHEW WAMBOLD	
DEREK L. WARNICK	
April Lynette Weaver	
Megan Renee Welliver	
Arden A. Wilkins	
Anthony Christopher Woods	

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 eight-week clinical internships, which will not be completed until late summer. Upon completion of the internship requirements, these students will receive their 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 Wednesday, May 26, 1999

### **FACULTY AWARDS**

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

PETER RONNER, Ph.D., Associate Professor of Biochemistry and Molecular Pharmacology

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

THOMAS J. NASCA, M.D., Clinical Associate Professor of Medicine, Vice Chairman for Education and Associate Dean for Education and Research, Jefferson Health System

Blockley-Osler Teaching Award for Excellence in Teaching of Clinical Medicine. To a faculty member of a Jefferson-Affiliated Hospital.

EDWARD J. FILIPPONE, M.D., 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.

MATTHEW V. DECARO, M.D., Clinical Assistant Professor of Medicine

Healthcare Foundation of New Jersey Humanism in Medicine Award. To an outstanding faculty member demonstrating exemplary compassion in doctor/patient relations.

ERIC L. HUME, M.D., Associate Professor of Orthopaedic Surgery

# DEAN'S MEDAL

The Dean's Medal. In recognition of distinguished service to the Medical College.

J. WOODROW SAVACOOL, M.D., Honorary Clinical Associate Professor of Medicine

The Dean's Medal. In recognition of distinguished service to the Medical College.

JOHN J. GARTLAND, M.D., Professor Emeritus of Orthopaedic Surgery and University Medical Editor

# AWARDS TO GRADUATING STUDENTS

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, Ph.D., M.D., M.P.H., Professor Emeritus of Preventive Medicine.

JULIE H. PROSSEDA (honorable mention: JENNIFER J. RANEY)

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.

# JOSEPH A. MANFREDI

The Caroll R. Mullen Memorial Prize in Ophthalmology. To the senior who has achieved the highest grade in ophthalmology.

CAROLYN B. GLAZER (honorable mention: GAUTAM MISHRA)

The Sarah G. Miller Obstetrics and Gynecology Prize. To a senior who has demonstrated excellence in obstetrics and gynecology during the entire curriculum. Sponsored by Mrs. Sarah George Miller in memory of John B. Montgomery, M.D., Professor Emeritus of Obstetrics.

ERIN C. LANGAN (honorable mention: VIRGINIA R. SMITH)

The Baldwin L. Keyes Prize in Psychiatry. Given 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.

PHILLIP R. REEVES (honorable mention: ALIX O. FAUST)

The Harold L. Stewart, M.D. '26 Prize in Pathology. Awarded to the academically excellent student who has completed a pathology research project.

#### BENJAMIN L. HOCH

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

STEVEN C. WAGNER (honorable mention: JEREMY S. GRAYSON)

The Leopold Z. Goldstein, M.D., Memorial Prize in Obstetrics and Gynecology. To the student with the highest average in obstetrics and gynecology. Sponsored by Mrs. Leopold Z. Goldstein and daughters in memory of Leopold Z. Goldstein, M.D.

JASON T. HUFFMAN (honorable mention: JOSEPH P. BROOKS)

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

TANDY AYE (honorable mention: LINDA M. COBB)

The Paul D. Zimskind Memorial Prize in Urology, for academic excellence 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.

CRISTOPHER J. GARLITZ

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.

RAEANN D. HAMILTON (honorable mention: SCOTT E. WAGNER)

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, M.D.

### HARLEY J. COHEN

The William F. Kellow Prize. 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.

## ANASTASIA PETRO

Robert J. Mandle Memorial Graduation Award. Given to the graduating student who has shown the greatest proficiency in research in the field of microbiology or related medical science as judged by the faculty of the Department of Microbiology.

JASON G. KRUPNICK

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

#### JOSHUA A. EISENBERG

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

WALTER W. FRUEH (honorable mention: PHILIP A. MINOTTI JR.)

The Edward J. Moore Memorial Prize in Pediatrics. To the student demonstrating the greatest aptitude in pediatrics. In memory of Edward J. Moore, M.D.

ARA BALKIAN (honorable mention: RENEE BROWN RIDDLE)

The S. MacCuen Smith Memorial Prize in Otology. To the most able senior in the field of otology. Sponsored by Mrs. Stuart Lodge Bullivant in memory of her father.

## **BRYAN T. AMBRO**

The Arthur Krieger Memorial Prize in Family Medicine, for excellence in family medicine. Sponsored by family and friends in memory of Arthur Krieger, M.D.

CHRISTOPHER A. HAINES

(honorable mention: REBECCA SIMONS and MARSHA N. WITTINK)

The Hubert Spencer Sear Memorial Award. Awarded to an outstanding fourth-year student in radiology. Sponsored by family and friends in memory of Hubert Spencer Sear, M.D., Class of 1950.

#### NABILE M. SAFDAR

The Alexander and Lottie Katzman Award in Gastroenterology. Awarded to the most proficient student in gastroenterology as judged by the faculty. Sponsored by Joseph Medoff, M.D., and Mrs. Medoff in memory of Mrs. Medoff's parents.

PHILIP M. GINSBURG (honorable mention: SUNGCHUN LEE)

The Philip and Bella Medoff Memorial Prize, for excellence in internal medicine and outstanding contributions to the Hobart Amory Hare Honor Medical Society. Given to a senior who is a member of the Society and who is recommended by the Magee Professor of Medicine and the faculty advisor of the Society. Sponsored by Joseph Medoff, M.D., Mrs. Medoff, and children.

CHRISTOPHER T. OSWALD (honorable mention: CRISTOPHER J. GARLITZ)

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

#### PETER C. LIANG

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

KLARISSA K. NELSON (honorable mention: LAWRENCE D. WARD)

The Annie Simpson Pulmonary Medicine Prize. Awarded to the medical student who received the best general average in pulmonary medicine.

PHILIP M. GINSBURG (honorable mention: ANDREW R. HAAS)

The William Potter Memorial Prize in Clinical Medicine. Given to the highest attaining student in clinical medicine, from a bequest of Mrs. Adaline Potter Wear.

#### ANASTASIA PETRO

The Hyman Menduke Research Prize. 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. Sponsored by Michael LeWitt, M.D., Class of 1974.

#### ANDREW R. HAAS

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.

LOUIS M. GIANGIULIO

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

BENJAMIN L. HOCH

The Alfred I. duPont Hospital for Children 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.

### REZA J. DAUGHERTY

Healthcare Foundation of New Jersey Humanism in Medicine Award. To an outstanding student demonstrating exemplary compassion in doctor/patient relations.

#### STEVEN C. WAGNER

The Philip P. Ripepi Prize in General Surgery, to the most promising surgical student in the graduating class.

JOSHUA A. EISENBERG

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, M.D., an alumnus and Honorary Clinical Associate Professor of Medicine, Jefferson Medical College.

JENNIFER J. RANEY (honorable mention: JULIE H. PROSSEDA)

### DOCTOR OF LAWS: ARLEN SPECTER

Arlen Specter, Pennsylvania's senior U.S. Senator, chairs the Senate Veterans Affairs Committee and the Appropriations Subcommittee on Labor, Health and Human Services, and Education, which oversees all federal dollars spent on health, education, and labor matters. He is also a member of the Judiciary and Governmental Affairs Committees. In the 104th Congress, he chaired the Intelligence Committee.

Senator Specter is a legislative leader on education, health care, crime, drugs and terrorism. He has led the fight to increase funding for breast cancer, prostate cancer, heart disease, Alzheimer's, mental health and the National Institutes of Health. Senator Specter helped defeat the bureaucratic Clinton national health care plan, and has been pressing his own plan for incremental heath care reform, focusing on portability and coverage for children. Senator Specter co-sponsored key domestic violence legislation.

Senator Specter's Armed Career Criminal Act, signed into law in 1984 and expanded in 1986, carries a mandatory 15-year prison sentence for a career criminal found carrying a firearm, and has proven especially effective against major drug traffickers. His death penalty legislation streamlines the once-endless federal appeals process.

A former prosecutor and investigator, Senator Specter in 1995 led the investigation of the killings at Ruby Ridge, Idaho, which prompted changes in FBI and ATF policy. He is currently leading the investigation of Gulf War Syndrome. In the only tangible legislative reform to come from the Iran-Contra scandal, he was responsible in 1989 for creating Inspectors General of the CIA, which in turn exposed Soviet mole Aldrich Ames, assassinations in Guatemala, and tainted Soviet materials passed to the President.

A fiscal conservative, Senator Specter has pressed for the Balanced Budget Amendment and line-item veto, and was the first to introduce a flat-tax bill to lower federal taxes and simplify filing. He has also fought for assistance to farmers and for relief efforts in the wake of droughts, floods, and the Avian Flu.

Arlen Specter began his public service career as an assistant Philadelphia District Attorney, winning the first conviction in the nation of labor racketeers. He was appointed to the Warren Commission staff where he played a leading role in investigating the assassination of President Kennedy. During two terms as District Attorney, he helped restore death penalty statutes in Pennsylvania, fought against consumer fraud, cracked down on rape, and relentlessly prosecuted corrupt public officials.

Arlen Specter was born to immigrant parents in Wichita, Kan., on Feb. 12, 1930, and grew up in the small town of Russell, Kan. He graduated Phi Beta Kappa from the University of Pennsylvania in 1951, then served stateside in the Air Force Office of Special Investigations for two years. He graduated in 1956 from Yale Law School, where he was an editor of the law journal.

Senator Specter lives in Philadelphia with his wife, Joan. They have two sons, Shanin and Steve. Shanin and his wife, Tracy, have three daughters, Silvi, Perri and Lilli.

### DOCTOR OF MEDICAL SCIENCE: MACLYN McCARTY

Maclyn McCarty, professor emeritus of The Rockefeller University, is a world-renowned leader in research on the transformation of pneumococcal types, the biology and immunochemistry of streptococci, and rheumatic fever.

A member of the University faculty since 1941, Dr. McCarty was associated with Oswald T. Avery and Colin MacLeod in the landmark experiments which led to the demonstration, in 1944, that deoxyribonucleic acid (DNA), a major component of chromosomes, is the substance that transmits hereditary information.

The significance of the work of Dr. McCarty and his collaborators lay in the fact that transformation—the artificial transfer of genetic material from one bacterium to another—was brought about in a test tube by a highly refined substance consisting principally of nucleic acid. This was the first direct evidence that DNA, a substance previously thought to lack the necessary chemical diversity, is responsible for genetic continuity. A corollary of this discovery, that nucleic acid in some way specifically controls the synthesis by the cell of certain products, has had far-reaching implications. Dr. McCarty's scientific memoir, *The Transforming Principle: Discovering that Genes Are Made of DNA*, was published in 1985.

After graduating from The Johns Hopkins University in 1937 with a Doctor of Medicine degree, he was successively intern, assistant resident, and assistant in its Department of Pediatrics. He was a medical fellow, doing research on sulfonamide drugs at New York University from 1940 to 1941, before he joined what was then known as The Rockefeller Institute for Medical Research as a National Research Council Fellow. From 1942 to 1946 he was on active duty as a lieutenant commander in the United States Navy Medical Corps with the Naval Medical Research Unit based at The Rockefeller Institute Hospital.

He was named an associate in 1946, associate member in 1948, member in 1950, and professor and senior physician in 1958. From 1960 to 1974, he was physician-in-chief of The Rockefeller University Hospital with responsibility for the development of clinical research and supervision of clinical care. He became a vice president of the University in 1965 and was named a John D. Rockefeller Jr. Professor in 1977. He retired as vice president in 1978, but held the Rockefeller chair until 1981, when he became professor emeritus.

Dr. McCarty has received many honors for his scientific contributions. Among them, in 1990, Dr. McCarty received the prestigious Wolf Prize in Medicine, presented by the Prime Minister of Israel in the Knesset. In 1977 he received the first annual Waterford Biomedical Science Award of Scripps Clinic and Research Foundation. He also received the Academy Medal of the New York Academy of Medicine in 1979, The 1980 Medal of the Board of Regents of the American College of Physicians, and the 1981 Robert Koch Medal of the Robert Koch Foundation.

In 1982 he was awarded the Order of the Republic in the First Degree by the Egyptian government for his service on the advisory board of the Biomedical Research Center for Infectious Diseases of the Ministry of Health, Egypt. In 1984 he was awarded the Commander's Cross of the Order of Merit of the Federal Republic of Germany, the same year he was among the first group of five recipients of the Who's Who in America Achievement Awards.

#### THE UNIVERSITY MACE

The Thomas Jefferson University mace, carried for the first time in the 1986 commencement ceremonies by Grand Marshal Robert Mandle, Ph.D., 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 Health Professions, 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 in Arts and Bachelor's gowns have pointed sleeves and are worn closed. The Master's gown has oblong sleeves, open at the wrist. The rear part of its oblong shape is square cut and the front part has an arc cut away, and is worn open or closed. The Doctor's gown has bell-shaped sleeves. It is worn opened or closed. Cotton poplin or similar material is used for the Associate's, Bachelor's and Master's degrees, and rayon or silk ribbed material is used for the Doctor's degree. The majority of gowns are black but a number of institutions have adopted other colors to identify special programs or groups within the institution.

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

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

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

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

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

black and blue	Thomas Jefferson University	red, white and blue	MCP ♦ Hahnemann
red and blue	University of Pennsylvania		School of Medicine
white and cherry	Temple University		

## THE JEFFERSON PROCESSIONAL

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

