

6-9-1995

## 1995 Commencement for Jefferson Medical College and College of Graduate Studies

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### Recommended Citation

"1995 Commencement for Jefferson Medical College and College of Graduate Studies" (1995).  
*Jefferson College of Biomedical Sciences Commencement*. Video 19.  
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171ST  
COMMENCEMENT



*Jefferson Medical College  
College of Graduate Studies*

*of*

*Thomas Jefferson University*

*Philadelphia, Pennsylvania*

*1824-1995*

*Friday, June Ninth  
Nineteen Hundred and Ninety-Five  
Half Past Ten O'clock*

*The Academy of Music*

### THE OATH OF HIPPOCRATES

I do solemnly swear by that which I hold most sacred:

That I will be loyal to the profession of medicine,  
just to its members, and generous to its institutions;

That I will lead my life and practice my art in  
uprightness and honor;

That I will give respect and gratitude to those who  
have taught me this art;

That into whatsoever house I shall enter, it shall be  
for the good of the sick to the utmost of my power,  
I holding myself aloof from wrong, from corruption,  
from the tempting of others to vice;

That I will exercise my art for the best care of my  
patients,  
and I will give no drug, perform no operation for  
a criminal purpose, even if solicited far less  
suggest it;

That whatsoever I shall see or hear of the lives of  
my patients which is not fitting to be spoken,  
I will keep inviolably secret.

These things I do promise upon my honor.

PROCESSIONAL .....	TRUMPET VOLUNTARY .....	JOHN STANLEY
	THE JEFFERSON PROCESSIONAL .....	BURLE MARX
OPENING PROCLAMATION.....	JACK FARBER, <i>Chairman</i>	
	Board of Trustees	
	Thomas Jefferson University	
THE NATIONAL ANTHEM		
INVOCATION .....	THE REVEREND JOSEPH LEGGIERI,	
	Director of Pastoral Care and Education	
	Thomas Jefferson University	
CONVOCATION.....	PAUL C. BRUCKER, <i>President</i>	
	Thomas Jefferson University	
CONFERRING OF DEGREES IN COURSE .....	PRESIDENT BRUCKER	
Doctor of Philosophy		
Presented by .....	JUSSI J. SAUKKONEN, <i>Vice President</i>	
	<i>for Special Programs and Dean</i>	
	College of Graduate Studies	
Doctor of Medicine		
Presented by .....	JOSEPH S. GONNELLA, <i>Senior Vice President</i>	
	<i>for Academic Affairs and Dean</i>	
	Jefferson Medical College	
The Oath of Hippocrates .....	EDWARD H. MCGEHEE, <i>Professor of Family Medicine</i>	
	<i>and Clinical Associate Professor of Medicine</i>	
	Jefferson Medical College	
Master of Science		
Presented by .....	DEAN SAUKKONEN	
CONFERRING OF HONORARY DEGREES .....	PRESIDENT BRUCKER	
COKIE ROBERTS, <i>Doctor of Science</i>		
Presented by .....	CHAIRMAN FARBER	
FRITZ MELCHERS, <i>Doctor of Science</i>		
Presented by .....	DEAN GONNELLA	
DEBHANOM MUANGMAN, <i>Doctor of Science</i>		
Presented by .....	DEAN SAUKKONEN	
CHARLES MERIEUX, <i>Doctor of Science</i>		
Presented by .....	DOCTOR KOPROWSKI	
BENEDICTION.....	REVEREND LEGGIERI	
RECESSIONAL.....	Pomp and Circumstance.....	Elgar

THE REVEREND R. BRUCE TODD, *Organist*

*Grand Marshal*  
R. ANTHONY CARABASI III

*Faculty Marshals*  
BENJAMIN BACHARACH    JAMES B. ERDMANN    DIANE R. GILLUM    GERALD B. GRUNWALD  
HOWARD L. RABINOWITZ    JOSEPH R. SHERWIN    MARION J. SIEGMAN    MICHAEL L. SIMENHOFF  
RICHARD R. SCHMIDT

*Student Marshals*  
ROBERT V. MARTINEZ    BRET R. SOKOLOFF

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



CANDIDATES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

- JACQUELINE WELDE BRITTINGHAM (Developmental Biology/Teratology).....Lansdale, PA  
 B.S., Philadelphia College of Pharmacy and Science  
 Thesis Title: "Molecular Analysis of Gastrointestinal Smooth Muscle Development in Vitro."  
 Thesis Advisor: K. M. McHugh, Ph.D.
- LISA A. CAREY (Physiology).....Berlin, NJ  
 B.A., LaSalle University  
 Thesis Title: "Neutrophil Functional and Kinetic Responses in a Sheep Model of Endotoxemia."  
 Thesis Advisor: M. H. Gee, Ph.D.
- CRYSTINA MICHELE CUPP (Biochemistry and Molecular Biology).....Haddon Heights, NJ  
 B.A., Rutgers University  
 Thesis Title: "Regulation of TGF- $\beta$  Gene Expression in Glial Cells: Implications for HIV-1 Induced CNS Dysfunction in AIDS."  
 Thesis Advisor: S. Amini, Ph.D.
- JIN-PING GUO (Physiology).....Johnson City, TN  
 B.Med., Shanxi Medical College  
 M.Med., Capital Institute of Medicine  
 M.S., East Tennessee State University  
 Thesis Title: "Beneficial Effects of Nitric Oxide in Arterial Intimal Injury."  
 Thesis Advisor: A. M. Lefer, Ph.D.
- \*SUSAN ILENE HAAS (Biochemistry and Molecular Biology).....Philadelphia, PA  
 B.S., Drexel University  
 Thesis Title: "Nuclear Proteins Regulate Transcription of the Myelin Basic Protein Gene during Brain Development."  
 Thesis Advisor: K. K. Khalili, Ph.D.
- TIN-CHEN HSU (Molecular Pharmacology and Structural Biology).....Taipei, Taiwan, R.O.C.  
 B.S., Tamkang University  
 Thesis Title: "Interaction of Glucocorticoid Receptor and Protein Kinase C-Mediated Signal Transduction Pathways."  
 Thesis Advisor: G. Litwack, Ph.D.
- \*DOUGLAS ANTHONY KERR (Biochemistry and Molecular Biology).....Toms River, NJ  
 A.B., Princeton University  
 Thesis Title: "An Analysis of Neurotropic Transcription of JC Virus."  
 Thesis Advisor: K. K. Khalili, Ph.D.
- ANNE M. KNAB (Biochemistry and Molecular Biology).....Horsham, PA  
 B.A., LaSalle University  
 Thesis Title: "The Molecular Basis for Camptothecin Resistance in DNA Topoisomerase I Mutants."  
 Thesis Advisor: M. A. Bjornsti, Ph.D.
- HIDEHITO KOTANI (Genetics).....Tokyo, Japan  
 B.S., Science University of Tokyo  
 Thesis Title: "Homologous Pairing of Nucleosomal DNA Mediated by Transcription."  
 Thesis Advisor: E. B. Kmiec, Ph.D.
- PRIYA KUNAPULI (Molecular Pharmacology and Structural Biology).....Upper Darby, PA  
 B.S., Delhi University  
 M.S., M.S. University  
 Thesis Title: "Cloning, Expression, and Characterization of a Novel G Protein-Coupled Receptor Kinase GRK5."  
 Thesis Advisor: J. L. Benovic, Ph.D.
- SHU LI (Genetics).....Philadelphia, PA  
 M.D., Tong Ji Medical University  
 Thesis Title: "An E2F Binding Sequence Regulates the Activation of the IGF-I Promoter by PDGF and EFG."  
 Thesis Advisor: R. Baserga, M.D.
- THOMAS JOSEPH LOGAN (Biochemistry and Molecular Biology).....Bel Air, MD  
 B.S., St. Joseph's University  
 Thesis Title: "Analysis of the Role of the E2F1 Transcription Factor in the Mammalian Cell Cycle."  
 Thesis Advisor: D. J. Hall, Ph.D.

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

- QING MA (Genetics).....Philadelphia, PA  
 B.A., M.S., Fudan University  
 Thesis Title: "Cloning and Characterization of Murine All-1 Gene."  
 Thesis Advisor: A. M. Buchberg, Ph.D.
- XIAOPING MA (Genetics).....Philadelphia, PA  
 B.S., M.S., Hubei Medical College  
 Thesis Title: "Cloning and Characterization of Human A-MYB Gene."  
 Thesis Advisor: B. Calabretta, M.D., Ph.D.
- KATHLEEN MICHELLE MCAVENEY (Immunology).....Newtown Square, PA  
 B.S., Villanova University  
 Thesis Title: "Immunomodulatory Effects of Intravesical BCG Immunotherapy in a Murine Model of Transitional Cell Carcinoma."  
 Thesis Advisor: E. C. Lattime, Ph.D.
- \*STEVEN ALAN OBERLENDER (Biochemistry and Molecular Biology).....Philadelphia, PA  
 B.A., Temple University  
 Thesis Title: "N-Cadherin-Mediated Cell Adhesion during Chondrogenesis in the Chick Embryonic Limb Bud."  
 Thesis Advisor: R. S. Tuan, Ph.D.
- JANINA JOLANTA PYRC (Biochemistry and Molecular Biology).....Philadelphia, PA  
 B.A., University of Delaware  
 Thesis Title: "Analysis of the Murine C-MYC Promoter."  
 Thesis Advisor: D. J. Hall, Ph.D.
- \*CAROL ANN SMITH (Biochemistry and Molecular Biology).....Roscoe, IL  
 B.A., Bryn Mawr College  
 Thesis Title: "Analysis of the Role of a Paired Box Gene in the Development of the Vertebral Column."  
 Thesis Advisor: R. S. Tuan, Ph.D.
- \*J. PAUL TAYLOR (Biochemistry and Molecular Biology).....Los Gatos, CA  
 B.S., University of California-Davis  
 Thesis Title: "Regulation of HIV-1 Gene Expression in the Central Nervous System."  
 Thesis Advisor: K. K. Khalili, Ph.D.
- LAURA TRINKLE-MULCAHY (Physiology).....Allentown, PA  
 B.S., Villanova University  
 Thesis Title: "Phosphorylation-Mediated Regulation of Crossbridge Interaction in Vascular Smooth Muscle."  
 Thesis Advisor: T. M. Butler, Ph.D.
- PHILIPP VANDENBERG (Biochemistry and Molecular Biology).....Munich, Germany  
 M.D., Technische Universität  
 Thesis Title: "Cloning and Characterization of the Murine COL11A2 Gene, Its cDNA, and Its Functional Analysis in Transgenic Mice."  
 Thesis Advisor: D. J. Prockop, M.D., Ph.D.
- WIBONCHAI YUTANAWIBONCHAI (Microbiology and Immunology).....Aranyaprathet Prachinburi, Thailand  
 M.D., Mahidol University  
 Thesis Title: "Protective Immunity against *Onchocerca Volvulus Larvae* in a Mouse Model."  
 Thesis Advisor: D. Abraham, Ph.D.

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



CANDIDATES FOR THE DEGREE OF DOCTOR OF MEDICINE

MATTHEW RONALD ACKER.....Milton, PA  
B.S., Wheaton College  
Family Practice — Image Family Practice Residency,  
Tulsa, OK

CHRISTOPHER TIMBERLAKE ALEMAN.....Wilmington, DE  
B.S., University of Richmond  
Medicine — Preliminary — Medical College of Virginia,  
Richmond, VA

CAROL ANNE ALLEN.....Oakton, VA  
B.A., The University of Virginia  
Emergency Medicine — Los Angeles County-University of  
Southern California Medical Center, Los Angeles, CA

DAVID BRIAN ANGELASTRO.....Runnemede, NJ  
B.A., La Salle University  
Emergency Medicine — Geisinger Medical Center,  
Danville, PA

HAROON PHILLIP ANWAR.....West Covina, CA  
B.S., University of California-Los Angeles  
Surgery — Preliminary — University of California-San  
Francisco, San Francisco, CA

VICTORIA ANNE ARLAUSKAS.....Dalton, PA  
B.S., University of Scranton  
Medicine-Pediatrics — Duke University Medical Center,  
Durham, NC

VINCENT KLINE ARLAUSKAS.....Dalton, PA  
AOA  
B.S., University of Scranton  
Surgery — Preliminary — University of Louisville School of  
Medicine, Louisville, KY

GLENN ANTHONY ARTICOLO.....Hammonton, NJ  
B.A., The State University of New Jersey-Rutgers  
Transitional — Albert Einstein Medical Center,  
Philadelphia, PA  
Radiology-Diagnostic — Thomas Jefferson University  
Hospital, Philadelphia, PA

MIYA R. ASATO.....Titusville, NJ  
B.S., Tufts University  
Pediatrics — University Health Center, Pittsburgh, PA

NADEEM AHMED BAIG.....West Windsor, NJ  
B.S., The Pennsylvania State University  
Internal Medicine — University of Medicine and Dentistry of  
New Jersey-Robert Wood Johnson Medical School,  
New Brunswick, NJ

THOMAS ANDREW BALSBAUGH.....Harrisburg, PA  
B.S., Duke University  
Family Practice — Thomas Jefferson University Hospital,  
Philadelphia, PA

MICHAEL RICHARD BARD.....Warminster, PA  
B.A., New York University  
General Surgery — Temple University Hospital,  
Philadelphia, PA

THOMAS A. BAUDO.....Jericho, NY  
B.S., Tufts University  
Transitional — Chestnut Hill Hospital, Philadelphia, PA  
Ophthalmology — Hahnemann University Hospital,  
Philadelphia, PA

STEPHEN L. BERKES.....Boston, MA  
B.A., Duké University  
Radiology-Diagnostic — Medical College of Ohio,  
Toledo, OH

JESSICA BERLINER.....Los Angeles, CA  
AOA  
B.A., Mills College  
Radiology-Diagnostic — Temple University Hospital,  
Philadelphia, PA

KARL RICHARD BERNAT, JR.....Coopersburg, PA  
AOA  
B.S., Muhlenberg College  
Medicine — Preliminary — University Health Center,  
Pittsburgh, PA

WILLIAM FRANKLIN BOND.....Topton, PA  
AOA  
B.S., Tulane University  
Emergency Medicine — University of California-Davis  
Medical Center, Sacramento, CA

ANNETTE RAE BORGER.....Kunkletown, PA  
B.S., The Pennsylvania State University  
Medicine-Pediatrics — University of Louisville School of  
Medicine, Louisville, KY

MEGAN JANE BRAY.....Abington, PA  
B.S., Duke University  
Obstetrics and Gynecology — University of Virginia Hospital,  
Charlottesville, VA

KEVIN DAVID BRISTOWE.....Wilmington, DE  
B.S., Villanova University  
Emergency Medicine — Medical Center of Delaware-  
Christiana Hospital, Newark, DE

MICHAEL JAY BRODY.....Elkins Park, PA  
B.A., University of Pennsylvania  
Internal Medicine — Thomas Jefferson University Hospital,  
Philadelphia, PA

JOSEPH MICHAEL BRUNO.....Exeter, PA  
*cum laude*  
AOA  
B.S., University of Scranton  
Internal Medicine — United States Air Force Medical Center,  
Wright Patterson Air Force Base, OH

LAWRENCE SCOTT BUCKLAND.....San Luis Obispo, CA  
B.S.E.L., California Polytechnic State University  
Pathology — Cedars-Sinai Medical Center, Los Angeles, CA

KIM LAN THI BUI.....Long Beach, CA  
B.A., B.S., Stanford University  
General Surgery — University of California-Davis-East Bay,  
Oakland, CA

NANCY JEAN CAMP.....New York, NY  
B.S., The Pennsylvania State University  
Emergency Medicine — New York University Medical Center,  
New York, NY

LARA MICHELE CARSON.....Wayne, PA  
B.A., Georgetown University  
Family Practice — Thomas Jefferson University Hospital,  
Philadelphia, PA

CARTER WY CHANG.....Honolulu, HI  
A.B., Harvard University  
Internal Medicine — Thomas Jefferson University Hospital,  
Philadelphia, PA

ESTHER HSUAN-HSIN CHANG.....San Jose, CA  
B.A., University of California at Berkeley  
Obstetrics and Gynecology — Kern Medical Center,  
Bakersfield, CA

NAUN CHANG.....Portland, OR  
B.A., University of Pennsylvania  
Medicine — Preliminary — The Lankenau Hospital,  
Wynnewood, PA  
Anesthesiology — Hospital of the University of Pennsylvania,  
Philadelphia, PA

LYNNE MARNEE COSLETT-CHARLTON.....Mountaintop, PA  
B.S., Villanova University  
Obstetrics and Gynecology — Pennsylvania Hospital,  
Philadelphia, PA

WILLIAM PERRY HOPKINS CHARLTON.....Landenberg, PA  
AOA  
B.S., The Pennsylvania State University  
Orthopaedic Surgery — Thomas Jefferson University Hospital,  
Philadelphia, PA

FRANCIS ALAN CHRZANOWSKI, JR.....Marlton, NJ  
B.S., Ursinus College  
General Surgery — University of Medicine and Dentistry of  
New Jersey-Robert Wood Johnson Medical School-Cooper  
Hospital-University Medical Center, Camden, NJ

VICTOR B. CHU.....Hong Kong  
B.S., University of Southern California  
Medicine — Preliminary — Temple University Hospital,  
Philadelphia, PA  
Anesthesiology — Hospital of the University of Pennsylvania,  
Philadelphia, PA

ANTHONY JAESUN CHUNG.....Glenolden, PA  
B.A., University of Pennsylvania  
Transitional — Crozer-Chester Medical Center, Upland, PA  
Anesthesiology — Stanford University Hospital, Stanford, CA

JOSEPH ANTHONY COLADONATO.....Aliquippa, PA  
B.A., University of Pennsylvania  
Internal Medicine — University Health Center, Pittsburgh, PA

CHRISTOPHER CUNNINGHAM COOKE.....Lancaster, PA  
B.S., St. Lawrence University  
Orthopaedic Surgery — Jackson Memorial Hospital,  
Miami, FL

LAURA ELIZABETH COZZARELLI.....Chalfont, PA  
B.S., Georgetown University  
Transitional — St. Vincent's Medical Center, Staten  
Island, NY  
Ophthalmology — The New York Hospital, New York, NY

FRANCINE THERESA CRANE.....Upper Darby, PA  
B.S.N., Thomas Jefferson University  
Internal Medicine — Greenville Hospital System,  
Greenville, SC

EDWARD PAUL CURCIO III.....Robesonia, PA  
B.S., Bates College  
Medicine — Preliminary — Boston University Medical  
Residency Program, Boston, MA

AOA — Alpha Omega Alpha Honor Medical Society

TIMOTHY MARTIN CURLEY.....Wilkes-Barre, PA  
*magna cum laude*  
AOA  
B.S., University of Scranton  
Internal Medicine — United States Air Force Medical Center,  
Wright Patterson Air Force Base, OH

JOSEPH JOHN CZARNECKI.....Philadelphia, PA  
AOA  
B.A., Haverford College  
Orthopaedic Surgery — Harvard Combined Orthopaedics  
Program, Boston, MA

MICHELLE MARIA D'ABREU.....Fort Washington, MD  
B.S., The Pennsylvania State University  
Family Practice — University of Cincinnati Hospital,  
Cincinnati, OH

JON CRAIG DAVIDSON.....Pittsburgh, PA  
B.S., The Pennsylvania State University  
Surgery — Preliminary — Cleveland Clinic Foundation,  
Cleveland, OH

MARGARET GARDNER DELPOSEN.....Ellwood City, PA  
B.S., Geneva College  
Family Practice — St. Margaret Memorial Hospital,  
Pittsburgh, PA

DEAN GRANVILLE RICE DENNIS.....Media, PA  
B.S., West Chester University  
Transitional — Presbyterian Medical Center, Philadelphia, PA

MARIELAINA SUNDO DE ROSE.....Philadelphia, PA  
*magna cum laude*  
AOA  
B.S., Georgetown University  
Internal Medicine — Presbyterian Hospital, New York, NY

AUDREY HOPE DESILVA.....Columbia, MD  
*cum laude*  
AOA  
B.A., Swarthmore College  
Pediatrics — Strong Memorial Hospital, Rochester, NY

GREGORY ALAN DEYE.....Gaithersburg, MD  
B.S., University of Notre Dame  
Internal Medicine — University Health Center, Pittsburgh, PA

KATHERINE PHILLIPS DEYE.....Washington, DC  
*cum laude*  
AOA  
A.B., Princeton University  
Pediatrics — University Health Center, Pittsburgh, PA

MICHELLE M. DINICOLA.....Minersville, PA  
B.A., Dickinson College  
Emergency Medicine — Pitt County Memorial Hospital,  
Greenville, NC

GARY FRANCIS DOMERACKI.....Willow Grove, PA  
B.A., Temple University  
Medicine — Preliminary — Abington Memorial Hospital,  
Abington, PA  
Ophthalmology — Temple University Hospital,  
Philadelphia, PA

DENISE MARIE DORSEY.....Wilmington, DE  
B.S., Ursinus College  
Pediatrics — University of Virginia Hospital,  
Charlottesville, VA



CHRISTINA ESPENKOTTER .....Islip, NY  
B.S., University of Scranton  
Internal Medicine — Milton S. Hershey Medical Center,  
Hershey, PA

BARBARA ANNE ETHERIDGE .....Clifton, NJ  
B.A., The State University of New Jersey-Rutgers  
Family Practice — John F. Kennedy Medical Center,  
Edison, NJ

SIMON FISHMAN .....Maple Glen, PA  
B.S., The Pennsylvania State University  
Medicine — Preliminary — University of Michigan Hospitals,  
Ann Arbor, MI  
Neurology — University of Michigan Hospitals,  
Ann Arbor, MI

DARLENE LOUISE FORTH .....Atlantic City, NJ  
B.A., The State University of New Jersey-Rutgers  
Medicine — Preliminary — University of Medicine and  
Dentistry of New Jersey-Robert Wood Johnson Medical  
School, New Brunswick, NJ

MARK DAVID FRIEDMAN .....Elkins Park, PA  
B.A., Emory University  
Internal Medicine — Thomas Jefferson University Hospital,  
Philadelphia, PA

CHRISTIE L. GANAS .....Reading, PA  
AOA  
B.S., University of Pittsburgh  
Obstetrics and Gynecology — Reading Hospital and Medical  
Center, Reading, PA

DAVID MICHAEL GARTH .....Newark, DE  
B.A., The State University of New Jersey-Rutgers  
Emergency Medicine — Thomas Jefferson University  
Hospital, Philadelphia, PA

ALYSSA S. GELMANN .....West Orange, NJ  
B.S., The University of North Carolina at Chapel Hill  
Internal Medicine — Thomas Jefferson University Hospital,  
Philadelphia, PA

FRANCIS JOHN GIALANELLA .....Livingston, NJ  
B.S., The University of Michigan  
Internal Medicine — Medical Center Hospital of Vermont,  
Burlington, VT

REBECCA DEIRDRE GILBERT-HILLS .....Madison, WI  
A.B., Mount Holyoke College  
Radiology-Diagnostic — Milton S. Hershey Medical Center,  
Hershey, PA

ERIC JASON GOLDBERG .....Jenkintown, PA  
B.A., Brandeis University  
Medicine — Preliminary — The Graduate Hospital,  
Philadelphia, PA  
Neurology — Thomas Jefferson University Hospital,  
Philadelphia, PA

THADDEUS WHITMORE GOLDEN .....Greenbrae, CA  
B.A., University of California-Santa Barbara  
Internal Medicine — Thomas Jefferson University Hospital,  
Philadelphia, PA

SHANTH ANDREW GOONEWARDENE .....Mount Laurel, NJ  
B.S., Eastern College  
Pathology — Thomas Jefferson University Hospital,  
Philadelphia, PA

AOA — Alpha Omega Alpha Honor Medical Society

\*Also receiving a Doctor of Philosophy degree from the College of Graduate Studies

WILLIAM ROBERT GRAF II .....Lancaster, PA  
B.A., Franklin and Marshall College  
V.M.D., University of Pennsylvania  
Transitional — Naval Hospital, Portsmouth, VA

ROBERT FITZGERALD GRANT .....Bloomfield, CT  
B.A., Amherst College  
Pediatrics — University of Connecticut Hospital,  
Farmington, CT

JUNE GREENE .....San Francisco, CA  
B.S., University of California-Davis  
Internal Medicine — Kaiser Permanente Medical Center,  
Los Angeles, CA

NATHAN WILLIAM GREENE .....Madera, CA  
B.S., University of California-Davis  
Surgery — Preliminary — Los Angeles County-University of  
Southern California Medical Center, Los Angeles, CA

\*SUSAN ILENE HAAS .....Philadelphia, PA  
*cum laude*  
B.S., Drexel University  
Obstetrics and Gynecology — Thomas Jefferson University  
Hospital, Philadelphia, PA

AJIT VALLABHDAS HANSALIA .....Spotswood, NJ  
B.S., The Pennsylvania State University  
Transitional — Medical Center of Delaware-Christiana  
Hospital, Newark, DE

JAMES SHIELDS HARROP, JR. ....Avon, CT  
*cum laude*  
AOA

A.B., Bowdoin College  
Neurosurgery — Thomas Jefferson University Hospital,  
Philadelphia, PA

SUMERA KHATOON HAYAT .....Columbia, MD  
B.S., The Pennsylvania State University  
Family Practice — Duke University Medical Center,  
Durham, NC

BENEDICT G. HEIDERSCHIEDT .....New London, PA  
A.B., Colgate University  
M.S., University of Massachusetts  
Family Practice — David Grant United States Air Force  
Medical Center, Travis Air Force Base, CA

KURT MATTHEW HEIL .....Pittsburgh, PA  
B.S., University of Notre Dame  
Family Practice — Fairfax Family Practice Center, Fairfax, VA

GEORGE KEITH HENRY .....Newark, DE  
B.S., University of West Indies  
Ph.D., University of Southern California  
Obstetrics and Gynecology — Albert Einstein Medical Center,  
Philadelphia, PA

KIMBERLY HEYER-CUESTA .....Philadelphia, PA  
B.A., Holy Family College  
Pathology — Thomas Jefferson University Hospital,  
Philadelphia, PA

JULIUS SCOTT HEYMAN .....Bensalem, PA  
B.Sc., Drexel University  
Ph.D., University of Arizona  
Medicine — Preliminary — Abington Memorial Hospital,  
Abington, PA  
Anesthesiology — Thomas Jefferson University Hospital,  
Philadelphia, PA

AMY HARA HIRSH .....Harrisburgh, PA  
B.S., Emory University  
Medicine — Preliminary — Emory University School of  
Medicine, Atlanta, GA

JULIEANNE HLAVAC .....Swoyersville, PA  
*cum laude*  
AOA  
B.S., University of Scranton  
Family Practice — Miami Family Hospital, Dayton, OH

LISA YIN-CHING HO .....Southampton, PA  
B.A., University of Pennsylvania  
Pediatrics — Creighton-Nebraska University Health  
Foundation, Omaha, NE

ERRIN JAMES HOFFMAN .....Erie, PA  
B.S., The University of Notre Dame  
Radiology-Diagnostic — Milton S. Hershey Medical Center,  
Hershey, PA

JEFFREY SWEETSIE HOLVERSON .....Park City, UT  
B.S., The College of Idaho  
Internal Medicine — Walter Reed Army Medical Center,  
Washington, DC

BARBARA PYLE HOMEIER .....Ardmore, PA  
B.S., Duke University

ELYSE B. HORN .....Wilmington, DE  
*cum laude*  
AOA  
B.S., Duke University  
Medicine — Preliminary — Thomas Jefferson University  
Hospital, Philadelphia, PA

LI LI HSIAO .....Taichung, Taiwan  
B.S., Taipei Medical College  
Ph.D., Thomas Jefferson University  
Medicine — Preliminary — Medical College of Pennsylvania,  
Philadelphia, PA

JACK W. HSU .....Media, PA  
B.S., The Pennsylvania State University  
Internal Medicine — University of Medicine and Dentistry of  
New Jersey-Robert Wood Johnson Medical School,  
Piscataway, NJ

MIN-YANG HUANG .....Kaohsiung, Taiwan  
B.A., The Johns Hopkins University  
Internal Medicine — Medical Center of Delaware-Christiana  
Hospital, Newark, DE

MARIE ELENA HUDZICKI .....Wayne, PA  
B.A., University of Pennsylvania  
Psychiatry — University of North Carolina Hospital,  
Chapel Hill, NC

LAWRENCE JAMES HYLAND .....Ridley Park, PA  
B.S., Saint Joseph's University  
M.S., Villanova University  
Pathology — University of Virginia Hospital,  
Charlottesville, VA

RAYMOND IGLECIA, JR. ....Virginia Beach, VA  
B.A., University of San Diego  
Family Practice — University of California-Los Angeles  
Medical Center, Los Angeles, CA

AOA — Alpha Omega Alpha Honor Medical Society

\*Also receiving a Doctor of Philosophy degree from the College of Graduate Studies

BARBARA IOANNIDES .....Neptune Beach, FL  
B.A., University of Florida  
Internal Medicine — Medical College of Virginia,  
Richmond, VA

LOUIS C. W. JAN .....Voorhees, NJ  
B.A., University of Pennsylvania  
Internal Medicine — University of Maryland Medical Center,  
Baltimore, MD

SEJAL KANTILAL KALAWADIA .....Somerdale, NJ  
B.S., The Pennsylvania State University  
Internal Medicine — Rush-Presbyterian-St Luke's Medical  
Center, Chicago, IL

MARIA G. KATSOUKIS .....Edison, NJ  
B.S., The Pennsylvania State University  
Pediatrics — Medical College of Virginia, Richmond, VA

ANDREA KELLY .....Philadelphia, PA  
*summa cum laude*  
AOA  
B.A., La Salle University  
Pediatrics — St. Christopher's Hospital for Children,  
Philadelphia, PA

\*DOUGLAS ANTHONY KERR .....Ocean County, NJ  
*summa cum laude*  
AOA  
A.B., Princeton University  
Medicine — Preliminary — The Graduate Hospital,  
Philadelphia, PA  
Neurology — The Johns Hopkins Hospital, Baltimore, MD

SANG KEUN KIM .....Barnesville, PA  
B.A., Boston University  
Internal Medicine — Milton S. Hershey Medical Center,  
Hershey, PA

ANN MARIE KING .....Lancaster, PA  
*cum laude*  
AOA  
B.S., West Chester State College  
M.S., Duke University  
Family Practice — Lancaster General Hospital, Lancaster, PA

KATHLEEN S. KNOEBEL .....Algoma, WI  
B.S., Yale University  
Pediatrics — Baylor College of Medicine, Houston, TX

LAURA M. KORNSGOLD .....Philadelphia, PA  
B.A., Barnard College  
B.A., Jewish Theological Seminary  
Pediatrics — Thomas Jefferson University-Delaware  
Children's Health Center, Philadelphia, PA

ANDREA KATHRYN LANGE .....Philadelphia, PA  
B.A., Temple University  
General Surgery — Medical Center of Delaware-Christiana  
Hospital, Newark, DE

SANDRO LARocca .....Audubon, PA  
B.S.M.E., Temple University  
M.S.E., The Pennsylvania State University  
Orthopaedic Surgery — Albert Einstein Medical Center,  
Philadelphia, PA

AMY LEIGH LEVAV .....Washington, DC  
B.A., University of Rochester  
Obstetrics and Gynecology — Medical Center of Delaware-  
Christiana Hospital, Newark, DE



CYNTHIA SHANNON LIN .....Hermitage, PA  
B.S., The Pennsylvania State University  
Internal Medicine — Cedars-Sinai Medical Center,  
Los Angeles, CA

MINETTA C. LIU .....Florham Park, NJ  
A.B., Princeton University  
Internal Medicine — Georgetown University Hospital,  
Washington, DC

REBECCA RICH LONG .....Mount Gretna, PA  
B.S., Lebanon Valley College  
Family Practice — Chestnut Hill Hospital, Philadelphia, PA

ROY HAN-HUI LOO .....San Mateo, CA  
B.S., University of California-Los Angeles  
Medicine — Preliminary — Good Samaritan Regional  
Medical Center, Phoenix, AZ  
Ophthalmology — Greater Baltimore Medical Center,  
Baltimore, MD

MICHELLE LYNN LOOK .....Honolulu, HI  
B.S., University of California-Los Angeles  
Family Practice — Grossmont Hospital-Sharp Health,  
La Mesa, CA

YVONNE JEAN LUK .....Warren, NJ  
B.S., The Pennsylvania State University  
Pediatrics — Wilford Hall United States Air Force Medical  
Center-Lackland Air Force Base, San Antonio, TX

KARE HENRIKSON LYCHE .....Redondo Beach, CA  
*cum laude*  
B.S., Stanford University  
Family Practice — University of California-San Diego  
Medical Center, San Diego, CA

JOHN FREDERICK MACMILLAN, JR. ....Wilmington, DE  
B.S., Mount Saint Mary's College  
Internal Medicine — University of New Mexico School of  
Medicine, Albuquerque, NM

JAMES TOLBERT MADDUX .....Missoula, MT  
B.A., University of Puget Sound  
Internal Medicine — University of Minnesota Hospital and  
Clinic, Minneapolis, MN

MICHAEL JOHN CRUZ MAGBALON .....Cherry Hill, NJ  
B.A., Villanova University  
Medicine — Preliminary — University of Medicine and  
Dentistry of New Jersey-Robert Wood Johnson Medical  
School-Cooper Hospital-University Medical Center,  
Camden, NJ  
Ophthalmology — University of Maryland Medical Center,  
Baltimore, MD

DANIEL MARRITT MAKIEVE .....Sacramento, CA  
B.S., University of California-Davis  
Internal Medicine — University of California-San Diego  
Medical Center, San Diego, CA

STEPHEN LEROY MALONE .....Wilmington, DE  
B.S., Drexel University  
Orthopaedic Surgery — University of Cincinnati Hospital,  
Cincinnati, OH

DAVID JAMES MANCINI .....Peckville, PA  
B.S., University of Scranton  
Anesthesiology — Thomas Jefferson University Hospital,  
Philadelphia, PA

VIVIAN HWEI-WEN MAO .....Emmaus, PA  
*cum laude*  
B.S., The Pennsylvania State University  
Surgery — Preliminary — Pennsylvania Hospital,  
Philadelphia, PA  
Otolaryngology, Head and Neck Surgery — Thomas Jefferson  
University Hospital, Philadelphia, PA

LOUIS CHARLES MARINO .....Washington Crossing, PA  
B.A., State University of New York at Binghamton  
Family Practice — Abington Memorial Hospital, Abington, PA

THOR TRISTAN MARKWOOD .....Gunnison, CO  
B.S., United States Military Academy  
Internal Medicine — Fitzsimons Army Medical Center,  
Aurora, CO

CHRISTOPHER WALSH MARTIN .....Philadelphia, PA  
*summa cum laude*  
AOA  
B.A., University of Pennsylvania  
Internal Medicine — Hospital of the University of  
Pennsylvania, Philadelphia, PA

JAMES DOUGLAS MARTIN .....Sacramento, CA  
B.S., B.A., Hope College  
Internal Medicine — Strong Memorial Hospital,  
Rochester, NY

KATHLEEN MCKENNA .....Woodbury, NJ  
B.S., Saint Joseph's University  
Pediatrics — Duke University Medical Center, Durham, NC

SUSAN LYNN McLAIN .....Monterey, CA  
B.S., University of California-Los Angeles  
Obstetrics and Gynecology — University of New Mexico  
School of Medicine, Albuquerque, NM

SCOTT STORM McLAUGHLIN .....Penn Yan, NY  
B.A., University of Colorado  
Emergency Medicine — Thomas Jefferson University  
Hospital, Philadelphia, PA

GLENN ROBERT McLINTOCK .....Somers, NY  
B.A., University of Pennsylvania  
Internal Medicine — Thomas Jefferson University Hospital,  
Philadelphia, PA

LOUIS PAUL MELCHIORRE, JR. ....Collingswood, NJ  
AOA  
B.S., Philadelphia College of Pharmacy and Science  
Pediatrics — Thomas Jefferson University-Delaware  
Children's Health Center, Philadelphia, PA

GORDON LUTHER METZ .....Salinas, CA  
A.B., Occidental College  
Otolaryngology, Head and Neck Surgery — Thomas Jefferson  
University Hospital, Philadelphia, PA

JEAN CARLA MILLER .....Morton, PA  
*magna cum laude*  
B.A., Columbia College of New York City  
Internal Medicine — Temple University Hospital,  
Philadelphia, PA

RACHEL MARIE KOLB MOORE .....Philadelphia, PA  
AOA  
B.A., Swarthmore College  
Family Practice — Lancaster General Hospital, Lancaster, PA

ALAN LEE MORRISON .....New Hope, PA  
B.A., The Pennsylvania State University  
Psychiatry — Thomas Jefferson University Hospital,  
Philadelphia, PA

JENNIFER HELEN MURRAY .....Blairstown, NJ  
B.A., Drew University  
Obstetrics and Gynecology — St. Paul-Ramsey Medical  
Center, St. Paul, MN

MELISSA ANN MYERS .....St. Louis, MO  
*magna cum laude*  
AOA  
B.S., State University of New York-Syracuse  
Psychiatry — McLean Hospital, Belmont, MA

MARIO OSCAR NAPOLETANO .....Downingtown, PA  
B.A., Boston University  
Family Practice — Abington Memorial Hospital, Abington, PA

MICHAEL JOHN NAUNCZEK .....Berwick, PA  
B.A., Bloomsburg University of Pennsylvania  
Family Practice — Chestnut Hill Hospital, Philadelphia, PA

ANKE NAVEK .....Solvang, CA  
B.S., University of Southern California  
Emergency Medicine — Thomas Jefferson University  
Hospital, Philadelphia, PA

MICHAEL JAY NELSON .....Kingston, PA  
B.A., Lehigh University  
Emergency Medicine — University of Maryland Medical  
Center, Baltimore, MD

CATHERINE K. NOBEL .....Los Angeles, CA  
B.A., Cornell University  
Internal Medicine — West Los Angeles VA Medical Center,  
Los Angeles, CA

ELIZABETH ELLEN BURNELL NORTH .....Portland, OR  
B.S., Pepperdine University  
Family Practice — University of Texas Medical School  
Affiliate, Houston, TX

AHAM. VICTOR NWACHUKU .....Mbaize, Nigeria  
B.A., California State University  
Transitional — San Joaquin General Hospital,  
French Camp, CA

\*STEVEN ALAN OBERLENDER .....Philadelphia, PA  
*cum laude*  
AOA  
B.A., Temple University  
Medicine — Preliminary — Hospital of the University of  
Pennsylvania, Philadelphia, PA

PATRICK KEVIN HUGH O'BRIEN .....Larchmont, NY  
B.A., The University of Chicago  
General Surgery — St. Elizabeth's Medical Center,  
Boston, MA

ALLEN JAMES OREHEK .....Forest City, PA  
B.S., University of Scranton  
Medicine-Pediatrics — Geisinger Medical Center,  
Danville, PA

KARLYN BENDIXEN PAGLIA .....SECANE, PA  
B.A., University of Pennsylvania  
Internal Medicine — Medical Center of Delaware-Christiana  
Hospital, Newark, DE

GARGEY MANOHAR PATIL .....Harleysville, PA  
B.A., University of Pennsylvania  
Obstetrics and Gynecology — Medical College of  
Pennsylvania, Philadelphia, PA

SUSHEEL PANDIT PATIL .....McLean, VA  
B.S., The Pennsylvania State University  
Internal Medicine — University Hospitals of Cleveland,  
Cleveland, OH

RICHARD M. PATRAGONI .....Philadelphia, PA  
B.A., Lafayette College  
Medicine — Preliminary — University of California-Irvine  
Medical Center, Orange, CA

SUSAN LINDA PELUSO .....Wilmington, DE  
B.A., Hofstra University  
Ph.D., Brown University  
Internal Medicine — Medical Center of Delaware-Christiana  
Hospital, Newark, DE

GARY EDWARD PENNER .....Hatboro, PA  
B.S., Muhlenberg College  
Emergency Medicine — Albert Einstein Medical Center,  
Philadelphia, PA

DAVID MICHAEL PERLMUTTER .....Ardmore, PA  
*summa cum laude*  
AOA  
B.S., Muhlenberg College  
Transitional — Crozer-Chester Medical Center, Upland, PA  
Radiology-Diagnostic — University of Maryland Medical  
Center, Baltimore, MD

SCOTT THOMAS PHILLIPS .....Bethel Park, PA  
*magna cum laude*  
AOA  
A.B., Princeton University  
Internal Medicine — University Health Center, Pittsburgh, PA

J. ANDER PINDZOLA .....Berwyn, PA  
B.S., Haverford College  
Pathology — Thomas Jefferson University Hospital,  
Philadelphia, PA

BHAVANA POTHURI .....Marlboro, NJ  
B.S., The Pennsylvania State University  
Obstetrics and Gynecology — The Lankenau Hospital,  
Wynnewood, PA

DONALD LOUIS PREATE, JR. ....Waverly, PA  
B.S., University of Scranton  
Urology — Hospital of the University of Pennsylvania,  
Philadelphia, PA

ARTHUR G. PRINE .....Omaha, NE  
B.A., Bellevue College  
Emergency Medicine — Thomas Jefferson University  
Hospital, Philadelphia, PA

PAUL DOMINICK PROTOMASTRO .....Ridgefield, CT  
AOA  
B.S., Providence College  
Orthopaedic Surgery — University Hospitals of Cleveland,  
Cleveland, OH

SUSAN MARIE PURCELL .....Flemington, NJ  
B.S., The State University of New Jersey-Rutgers  
M.B.A., The State University of New Jersey-Rutgers  
Internal Medicine — Thomas Jefferson University Hospital,  
Philadelphia, PA



MICHAEL ANTHONY RADONICH .....San Francisco, CA  
*cum laude*  
B.S., University of California-Davis  
Medicine — Preliminary — Hospital of the University of  
Pennsylvania, Philadelphia, PA

ISHU VENKATESHWAR RAO .....Jackson, MS  
B.S., The Pennsylvania State University  
Internal Medicine — Baylor College of Medicine,  
Houston, TX

DEBORA ANNE RAUSCH .....Haddonfield, NJ  
B.A., Franklin and Marshall College  
M.A., Temple University  
Internal Medicine — Georgetown University Hospital,  
Washington, DC

NANCY BETH REISMAN .....Cherry Hill, NJ  
A.B., Washington University  
Medicine — Preliminary — University of Texas Southwestern  
Medical School, Dallas, TX

COLIN MATTHEW ROBERTS .....Philadelphia, PA  
B.A., Wesleyan University  
Pediatrics — Thomas Jefferson University-Delaware  
Children's Health Center, Philadelphia, PA

LEIGH SUZANNE ROBERTS .....Huntingdon Valley, PA  
B.S., Temple University  
Pediatrics — Albert Einstein Medical Center, Philadelphia, PA

BRIAN RICHARD ROOD .....Devon, PA  
B.A., The Pennsylvania State University  
Pediatrics — Medical Center Hospital of Vermont,  
Burlington, VT

DOUGLAS JEFFREY ROSE .....Hollidaysburg, PA  
B.S., Saint Francis College  
Family Practice — New Hampshire-Dartmouth Family  
Practice Consortium, Concord, NH

JAY CHARLES RUDD .....San Jose, CA  
*magna cum laude*  
AOA  
B.S., University of California-Los Angeles  
Transitional — Crozer-Chester Medical Center, Upland, PA  
Ophthalmology — Wills Eye Hospital, Philadelphia, PA

DONALD HENRY RUTH II .....Beaver, PA  
B.S., Ursinus College  
Family Practice — Puget Sound Naval Hospital,  
Bremerton, WA

RONALD GARVIN RYAN .....Newark, DE  
B.S., Oakwood College  
Family Practice — Florida Hospital, Orlando, FL

RICHARD JOSEPH SAAD .....Avon, MA  
B.A., University of Pennsylvania  
Internal Medicine — Brooke Army Medical Center,  
Fort Sam Houston, TX

MADELAINE RAMOS SALDIVAR .....Hatfield, PA  
B.S., The Pennsylvania State University  
Internal Medicine — University of Maryland Medical Center,  
Baltimore, MD

MELINDA ELLEN SANDERS .....Buffalo, NY  
B.S., Duke University  
Pathology — The Hospital of the University of Pennsylvania,  
Philadelphia, PA

ROVINDER SINGH SANDHU .....Quakertown, PA  
B.S., The Pennsylvania State University  
General Surgery — Lehigh Valley Hospital, Allentown, PA

ROBIN MACLAUGHLIN SARNER .....Brigantine, NJ  
B.S., University of Virginia  
Family Practice — Eau Claire Regional Educational  
Consortium, Eau Claire, WI

MARY L. SCHULER .....Drexel Hill, PA  
*cum laude*  
AOA  
B.A., B.S., M.B.A., University of Delaware  
Internal Medicine — The Lankenau Hospital, Wynnewood, PA

TIMOTHY SHACK .....Brigantine, NJ  
B.A., B.S., Villanova University  
Internal Medicine — Thomas Jefferson University Hospital,  
Philadelphia, PA

SHILPA PRABODH SHAH .....Wappingers Falls, NY  
B.S., The Pennsylvania State University  
Medicine-Pediatrics — Indiana University Medical Center,  
Indianapolis, IN

SWATI JAGDISH SHAH .....Taylors, SC  
B.A., The Johns Hopkins University  
Obstetrics and Gynecology — Tulane University School of  
Medicine, New Orleans, LA

BIJAN SHOLEHVAR .....Allentown, PA  
B.S., University of Pittsburgh  
Pathology — University Health Center, Pittsburgh, PA

JAE HOON SIM .....Pittsburgh, PA  
B.S., The Pennsylvania State University  
Family Practice — Swedish Medical Center, Seattle, WA

\*CAROL ANN SMITH .....Roscoe, IL  
*cum laude*  
AOA  
B.A., Bryn Mawr College  
Medicine — Preliminary — Pennsylvania Hospital,  
Philadelphia, PA  
Ophthalmology — Barnes Hospital, St. Louis, MO

CRAIG ROBERT SMITH .....Gettysburg, PA  
*cum laude*  
AOA  
B.S., Bucknell University  
General Surgery — Barnes Hospital, St. Louis, MO

PRUDENCE ANN SMITH .....Melburne, FL  
B.Sc.Ed., Northwestern University  
Transitional — Mercy Catholic Medical Center,  
Philadelphia, PA  
Radiology-Diagnostic — Bronx Lebanon Hospital Center,  
Bronx, NY

LORI SUZANNE SNYDER .....Potomac, MD  
B.A., University of Pennsylvania  
Transitional — Crozer-Chester Medical Center, Upland, PA  
Ophthalmology — Sinai Hospital of Baltimore,  
Baltimore, MD

ROBERT WESCOTT SNYDER .....Cherry Hill, NJ  
B.S., Dickinson College  
Pediatrics — The Ohio State University Medical Center,  
Columbus, OH

PAUL ROBERT STAUFFER .....Santa Ana, CA  
B.S., M.S., University of California-Davis  
General Surgery — York Hospital, York, PA

PETER JAMES STULL .....Southampton, MA  
B.S., University of Massachusetts/Amherst  
Emergency Medicine — Darnall Army Community Hospital,  
Fort Hood, TX

STEVEN HERSHEL SUCHMAN .....Goleta, CA  
B.A., University of California-Santa Barbara  
Family Practice — Latrobe Area Hospital, Latrobe, PA

DANIEL SUSSMAN .....Medford, NJ  
B.A., The Johns Hopkins University  
M.S.C.S., Villanova University  
M.S.E.E., Virginia Polytechnical Institute and State University  
M.B.A., The University of Southern Mississippi  
Medicine-Psychiatry — Eastern Carolina University School of  
Medicine, Greenville, NC

KENNETH JAMES SZEKELY .....Irwin, PA  
B.S., University of Pittsburgh  
Family Practice — Shadyside Hospital, Pittsburgh, PA

KATHERINE FANG SZEMA .....Philadelphia, PA  
B.A., University of Pennsylvania  
Pediatrics — The New York Hospital, New York, NY

\*J. PAUL TAYLOR .....Los Gatos, CA  
AOA  
B.S., University of California-Davis  
Medicine — Preliminary — The Hospital of the University of  
Pennsylvania, Philadelphia, PA  
Neurology — The Hospital of the University of Pennsylvania,  
Philadelphia, PA

DANIEL RICHARD TERSHAK, JR. ....State College, PA  
B.S., The Pennsylvania State University  
General Surgery — Albert Einstein Medical Center,  
Philadelphia, PA

LARRY WADE THOMPSON, JR. ....New Castle, PA  
AOA  
B.S., Gannon University  
Obstetrics and Gynecology — Pennsylvania Hospital,  
Philadelphia, PA

DOUGLAS ARAM TOMASIAN .....Belmont, MA  
B.S., Bates College  
Internal Medicine — McGaw Medical Center-Northwestern  
University, Chicago, IL

TIANNA TSITSIS .....Glenview, IL  
AOA  
B.S., The Pennsylvania State University  
Internal Medicine — Evanston Hospital, Evanston, IL

ROBERTO BALBINO VARGAS III .....Queens, NY  
B.A., University of Pennsylvania  
Medicine — Preliminary — Yale-New Haven Hospital,  
New Haven, CT

SAVITHA VENUGOPAL .....Vineland, NJ  
B.S., The Pennsylvania State University  
Medicine — Preliminary — Pennsylvania Hospital,  
Philadelphia, PA  
Anesthesiology — Thomas Jefferson University Hospital,  
Philadelphia, PA

ERIC A. WALKER .....Wilmington, DE  
B.A., University of Delaware  
M.A., The University of Virginia  
Pathology — University of Alabama Hospital,  
Birmingham, AL

JOHN KAI WANG .....Franklin Lakes, NJ  
A.B., Cornell University  
Internal Medicine — Medical Center of Delaware-Christiana  
Hospital, Newark, DE

STEPHEN E. WANG .....Sunnyvale, CA  
B.A., University of California at Berkeley  
Internal Medicine — Santa Clara Valley Medical Center,  
San Jose, CA

WILLIAM W. WANG .....Santa Clara, CA  
*cum laude*  
AOA  
B.S., University of California-Los Angeles  
Internal Medicine — University of California-San Diego  
Medical Center, San Diego, CA

JONATHAN MATTHEW WENK .....Baltimore, MD  
AOA  
B.A., Northwestern University  
Internal Medicine — University of Michigan Hospitals,  
Ann Arbor, MI

JOSHUA BREWSTER WINSLOW .....Amherst, MA  
B.S., Hobart and William Smith Colleges  
Internal Medicine — Tripler Army Medical Center,  
Honolulu, HI

DEBORA GWEN WITIAK .....Bethlehem, PA  
AOA  
B.A., University of Pennsylvania  
Otolaryngology — University of Cincinnati Hospital,  
Cincinnati, OH

JON E. WOO .....Gardena, CA  
B.A., University of California at Berkeley  
Family Practice — Shadyside Hospital, Pittsburgh, PA

GOPALA KRISHNA YADAVALLI .....Cleveland, OH  
B.S., The Pennsylvania State University  
Internal Medicine — University Hospitals of Cleveland,  
Cleveland, OH

NATALIE K. YEANEY .....Brookville, PA  
B.S., The Pennsylvania State University  
Pediatrics — University Hospitals of Cleveland,  
Cleveland, OH

SUBOOHA ZAFAR .....Lambertville, NJ  
B.S., The Johns Hopkins University  
Internal Medicine — New York University Medical Center,  
New York, NY

MARY AMINA ZAKY .....Rochester, NY  
B.S., The Pennsylvania State University  
Internal Medicine — University of Medicine and Dentistry of  
New Jersey-Robert Wood Johnson Medical School,  
Piscataway, NJ



CANDIDATE FOR THE DEGREE OF MASTER OF SCIENCE IN GENETICS

GUILLAUME DUMÉNIL .....Fontenay Aux Roses, France  
 B.S., Lycée Lakanal  
 Thesis Title: "Identification of a Putative IGF-1 Receptor Signaling Molecule."  
 Thesis Advisor: R. Baserga, M.D.

CANDIDATES FOR THE DEGREE OF MASTER OF SCIENCE IN PATHOLOGY AND CELL BIOLOGY

MICHAEL ALAN FELDMAN .....Philadelphia, PA  
 B.S., Temple University  
 Thesis Title: "Protein Trafficking Pathways in the Malarial Parasite *Plasmodium falciparum*."  
 Thesis Advisor: T. F. Taraschi, Ph.D.

MICHAEL FRANCIS NASO .....Philadelphia, PA  
 B.S., Dickinson College  
 Thesis Title: "Structural and Functional Characterization of the Human and Mouse Versican Genes."  
 Thesis Advisor: R. Iozzo, M.D.

CANDIDATES FOR THE DEGREE OF MASTER OF SCIENCE IN BIOMEDICAL CHEMISTRY

CARMEN Y. BROWN .....Philadelphia, PA  
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 DANIEL S. MARTIN .....Millville, PA  
 EILEEN McSTRAVICK-COLLINGS .....Cinnaminson, NJ  
 JAYDEEP VIBHAKER NANAVATY .....Trenton, NJ  
 BETH O. NEWSTAT .....North Conway, NH  
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 GLORIA RAMIREZ K. ....San Cristóbal Estado Táchira, Venezuela

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WILLIAM F. BEDSOLE .....Smithville, NJ  
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 MAURA McCAULEY COULTER .....Langhorne, PA  
 LINDA ANN DONOVAN .....Roslyn, PA  
 SHARON J. HANLON .....Horsham, PA  
 SUSAN KAY HUGGARD .....Ventnor, NJ  
 MARIBETH JUSTINE KANE .....Philadelphia, PA  
 TAMARA MARIE KEAR .....Philadelphia, PA  
 GRACE D. LAYNE .....Philadelphia, PA  
 JOY D. McFARLANE .....Phoenixville, PA  
 KATHLEEN BRIDGET McNAMEE .....Philadelphia, PA  
 DONNA HELENE SCOPIO .....Primos, PA  
 BARBARA BACHMAN SYMONS .....Philadelphia, PA  
 JOAN ZOMCHICK-MARTIN .....Philadelphia, PA

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DONNA KAY BOLDING .....High Point, NC  
 AMY S. GRUBB .....West Chester, PA  
 JENIFER MARIE HAINES .....Exton, PA  
 PAMALYN ANNETTE JOHNS .....Philadelphia, PA  
 LESLIE H. MEYERSON .....Philadelphia, PA

CANDIDATES FOR THE DEGREE OF MASTER OF SCIENCE IN PHYSICAL THERAPY

JOHN VICTOR BELLACE .....Cherry Hill, NJ  
 JULIE ELAINE BRYMESSER .....Boiling Springs, PA  
 BRIGETTE JOY CUFFIA .....Zelienople, PA  
 CHRISTOPHER JOHN DAHM .....Apalachin, NY  
 ROBERT LEO DALLAS .....Perkiomenville, PA  
 MARYANNE CECELIA DePUTRON .....West Deptford, NJ  
 DAVID FRANK DONAR .....Marlton, NJ  
 TIFFENY DORSEN QUINN .....Palmyra, NJ  
 COLLEEN ELIZABETH DUFFY .....Woodbury, NJ  
 CHERYL LEEANN FINN .....Sewell, NJ  
 AMY ALICE FLINCHBAUGH .....Bethlehem, PA  
 TIMOTHY ADAM FOX .....Haddonfield, NJ  
 MICHAEL L. GRAVES .....Owego, NY  
 JEANNINE MICHELLE HADLEY .....Philadelphia, PA  
 JAMES F. HARTMAN .....Clifton Heights PA  
 DWIGHT JONATHAN HEALY .....Hammonont, NJ  
 LAURIE A. HEPLER .....Alloway, NJ  
 ANGELA JEANNE HERRIDER .....Camp Hill, PA  
 LOUIS ROBERT HOCHSTRASSER III .....Surf City, NJ  
 SUSANNE LEE JAGGERS .....Haddonfield, NJ  
 ROBYN CHRISTINA KJAR .....Havertown, PA  
 RAYMOND PHILLIP LAsPADA .....Philadelphia, PA  
 ANDREW JOHN LESHAR .....Springfield, PA  
 GALINA LEVIN .....Philadelphia, PA  
 FREDERICK VICTOR LIEF .....Haverford, PA  
 JENNIFER LYNN MAIMONE .....Pennsville, NJ  
 CYNTHIA ELAINE MEAD .....Evans Mills, NY  
 CARLA K. MORGAN .....Moorestown, NJ  
 MARGARET ANN OVERHOLSER .....Ephrata, PA  
 EFFIE PAPAS .....Forked River, NJ  
 ROBERT STEPHEN RADOMSKI .....Dobbs Ferry, NY  
 STACEY ANN RAGAZZONE .....Levittown, PA  
 NADINE SUSAN REIST .....Olney, MD  
 GLORIA ESTHER ROSS .....Tinton Falls, NJ  
 LINDA FLORENCE SCHULZ .....Glenside, PA  
 LYNNE MARIE SCHWARZ .....Pennsauken, NJ  
 LORI ANN SCHWIMER .....Mt. Laurel, NJ  
 PAUL MICHAEL SHUTE .....Wilmington, DE  
 HOWARD S. SLOBODINSKY .....Collingswood, NJ  
 DENISE MARIE SOTIS .....Downingtown, PA  
 LINDA J. SPRINGMAN .....Philadelphia, PA  
 JOSEPH NEAL STOUT .....Fleetwood, PA  
 JODY KAY STREFF .....Philadelphia, PA  
 KATHLEEN F. STRONG .....Lansdale, PA  
 TRACY M. UMSTOT .....Oakland, MD  
 TRACY LEE VISCONTI-DiBEASE .....Mt. Laurel, NJ  
 DEBORAH ANN WATSON-SHAEFFER .....Downingtown, PA

Candidates for the combined B.S./M.S. Program in Physical Therapy will have completed all formal course work by April 28, 1995. They are also required to take two 8-week clinical internships, which will not be completed until August 25, 1995. These candidates will be invited to participate in the Commencement Exercises on June 9, 1995, at which time a certificate of accomplishment will be given to them. These candidates will be awarded the M.S. degree and they will receive the diploma only after all requirements have been met, including satisfactory completion of the above internships.

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 8, 1995

## FACULTY AWARDS

*Dean's Award for Distinguished Teaching in a Basic Science.*

ARTHUR R. ALLEN, Ph.D., Professor of Biochemistry and Molecular Biology

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

CHRISTOPHER V. CHAMBERS, M.D., Clinical Associate Professor of Family Medicine

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

SHIRLEY P. KLEIN, M.D., Clinical Assistant Professor of Pediatrics

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

WILLIAM ELIADES, M.D., Clinical Assistant 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.

CRAIG ROBERT SMITH (honorable mention: MEGAN JANE BRAY)

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

WILLIAM PERRY HOPKINS CHARLTON (honorable mention: CHRISTOPHER CUNNINGHAM COOKE)

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

KATHERINE PHILLIPS DEYE (honorable mention: LOUIS PAUL MELCHIORRE, JR.)

*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.

MICHAEL JAY BRODY

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

VIVIAN HWEI-WEN MAO (honorable mention: DEBORA GWEN WITIAK)

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

JAY CHARLES RUDD (honorable mention: LORI SUZANNE SNYDER)

*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.

LYNN MARNEE COSLETT-CHARLTON (honorable mention: NATALIE K. YEANEY)

*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.

MELISSA ANN MYERS (honorable mention: JAMES SHIELDS HARROP, JR.)

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

DOUGLAS ANTHONY KERR

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

ANDREA KELLY

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

JULIUS SCOTT HEYMAN (honorable mention: DAVID JAMES MANCINI)

*The Philip J. Hodes Prize in Radiology.*

GLENN ANTHONY ARTICOLO (honorable mention: STEPHEN L. BERKES)

*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.

LARA MICHELE CARSON (honorable mention: LOUIS CHARLES MARINO)

*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.

JAMES SHIELDS HARROP, JR. (honorable mention: JONATHAN MATTHEW WENK)

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

THOMAS ANDREW BALSBAUGH (honorable mention: DOUGLAS ANTHONY KERR)

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

ERIC JASON GOLDBERG (honorable mention: J. PAUL TAYLOR)

*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.

AUDREY HOPE DESILVA (honorable mention: MIYA R. ASATO)

*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.

DAVID MICHAEL PERLMUTTER (honorable mention: JESSICA BERLINER)

*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.

GLENN ROBERT McLINTOCK (honorable mention: MIN-YANG HUANG)

*The Paul D. Zimkind Memorial Prize in Urology*, sponsored by the National Urologic Forum, in memory of Paul D. Zimkind, M.D., Ph.D., The Nathan Lewis Hatfield Professor of Urology, for academic excellence in the urologic field.

VINCENT KLINE ARLAUSKAS (honorable mention: LARRY WADE THOMPSON, JR.)

*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.

ANTHONY JAESUN CHUNG (honorable mention: VICTOR B. CHU)

*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.

J. PAUL TAYLOR

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

MARK DAVID FRIEDMAN (honorable mention: THADDEUS WHITMORE GOLDEN)

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

SUBOOHA ZAFAR (honorable mention: JENNIFER HELEN MURRAY)

*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.

AUDREY HOPE DESILVA (honorable mention: MELISSA ANN MYERS)



*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.

DAVID MICHAEL GARTH (honorable mention: WILLIAM ROBERT GRAF II)

*The Arnold R. Weitz Memorial Prize in Hematology.*

JEAN CARLA MILLER (honorable mention: CHRISTOPHER WALSH MARTIN)

*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.

MELISSA ANN MYERS (honorable mention: LARA MICHELE CARSON)

*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.

LOUIS PAUL MELCHIORRE, JR.

*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.

ANDREA KELLY and ROBERT WESCOTT SNYDER

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

WILLIAM FRANKLIN BOND

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

AUDREY HOPE DeSILVA

*The Janet M. Glasgow American Medical Women's Association Award of Outstanding Achievement*, presented to a woman standing first in her class at graduation.

ANDREA KELLY

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

MARIELAINA SUNDO DeROSE

AUDREY HOPE DeSILVA

KATHERINE PHILLIPS DEYE

SUSAN ILENE HAAS

JULIEANNE HLAVAC

ELYSE B. HORN

ANN MARIE KING

KARE HENRIKSON LYCHE

VIVIAN HWEI-WEN MAO

JEAN CARLA MILLER

MELISSA ANN MYERS

MARY L. SCHULER

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

MIYA R. ASATO

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

BARBARA PYLE HOMEIER

### 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.

LONNIE EILEEN ALLEN

### DOCTOR OF SCIENCE — COKIE ROBERTS

Cokie Roberts is a Correspondent for ABC News covering politics, Congress, and public policy. She is part of the weekly roundtable discussion on "This Week With David Brinkley" and often serves as a substitute anchor on "Nightline."

In addition to her work for ABC, Ms. Roberts serves as a news analyst for National Public Radio, where she was the Congressional correspondent for more than 10 years. In that time she won numerous awards, including the highest award in public radio, the Edward R. Murrow Award. She was also the first broadcast journalist to win the highly prestigious Everett McKinley Dirksen Award for coverage of Congress. In 1991, Ms. Roberts was named one of *Glamour* magazine's "Ten Outstanding Women of 1991," *M* magazine named her a "Powerbroker of 1991," and the National Mothers Day Committee honored her as "Outstanding Mother of the Year."

Her op-ed columns have appeared in the *New York Times* and the *Washington Post*. She has also written for the *New York Times Magazine* and *The Atlantic*.

Before joining ABC in 1988, Ms. Roberts was a contributor to PBS-TV's MacNeil/Lehrer Newshour. Her coverage of the Iran/Contra affair for that program won her the Weintal Award in 1987.

Prior to joining NPR, Ms. Roberts was a reporter for CBS News in Athens, Greece. She also produced and hosted a public affairs program on WRC-TV, Washington, D.C.

From 1981 to 1984, in addition to her work at NPR, she co-hosted "The Lawmakers," a weekly public television program on Congress. Ms. Roberts is former President of the Radio and Television Correspondents Association.

A 1964 graduate in political science from Wellesley College, Ms. Roberts received a 1985 Distinguished Alumnae Achievement Award "in recognition of excellence and distinction in professional pursuits."

### DOCTOR OF SCIENCE — PROFESSOR FRITZ MELCHERS

Professor Fritz Melchers is the Director of the Basel Institute for Immunology and one of the world's foremost immunologists.

He has achieved international recognition for his outstanding studies of the mechanism involved in the formation and function of B cell lymphocytes. B cell lymphocytes produce antibodies, which are one of the body's principal defenses against disease. Among his most important discoveries are genetic mechanisms that control the development of B cells, making the body ready to encounter antigens (bacteria or viruses). He and his colleagues discovered three genes (mb-1, V-pre-B, and  $\lambda 5$ ) that are expressed only in pre-B stem cells (early B-lineage cells).

The discovery of these genes, which form the surrogate light-chain, led to experiments where such pre-B stem cells from auto-immune, disease-prone mice were transplanted into SCID mice. Their subsequent growth and the development of auto-immune disease showed that these cells would be suitable targets for gene therapy. These discoveries have important implications for our understanding of auto-immune disease and cancer.

Professor Melchers received his undergraduate degree in chemistry at the University of Cologne, Germany, in 1961. In 1964 he earned a Ph.D. from the same university and then worked as a research associate at the Salk Institute for Biological Studies in La Jolla, California. Later he studied as a post-doctoral fellow and senior assistant at the Max Planck Institute for Molecular Genetics in Berlin, Germany. Between 1970 and 1971 he was a visiting scientist at the Weizmann Institute in Israel and Stanford University in California. After receiving a second doctorate in 1971 from the University of Freiberg, Germany, he joined that university's Faculty of Biology, serving there until 1974.

In 1973 he was appointed to the Faculty of Biology at the University of Heidelberg and has served there as an honorary professor since 1978. Professor Melchers was on the faculty of the Wistar Institute in Philadelphia from 1980 until 1991 and has been a member of the Jefferson Cancer Institute since 1992. He is also currently a member of the Faculty of Natural Sciences at the University of Basel, Switzerland.

He joined the Basel Institute for Immunology as a Permanent Member in 1970 and was appointed Director in 1980, succeeding Nobel Prize laureate, the late Dr. Niels Jerne. The Basel Institute for Immunology, founded in 1968 and since supported by F. Hoffmann-La Roche, Ltd., is one of the leading research centers on immunological disease. It has recently produced two other Nobel Prize laureates in addition to Dr. Jerne—Dr. Susumo Tonegawa and Dr. Georges Köhler.

In addition to his eminence as a researcher, Professor Melchers is also a leader in the scholarship of his field. He is on the editorial boards of several international journals on immunology and has written scores of journal articles, books, and book chapters. He has also been active as a leader of the field's major scientific meetings and symposia. Among Professor Melchers' many honors are his memberships in Academia Europea and the Leopoldina, an honorary M.D. from University of Turku, Finland, and the Burroughs-Wellcome Visiting Professorship at the University of California in San Francisco.



#### DOCTOR OF SCIENCE — DR. CHARLES MERIEUX

Dr. Charles Merieux is the founder and retired president of the Institut Merieux, the largest producer of vaccines in the world. He is a pioneer in the creation of several new vaccines and is widely honored for his success in mobilizing governmental and industrial groups to ensure the delivery of these vaccines whenever the need arose. Of particular note is his quick response to an outbreak of meningitis in Brazil. Dr. Merieux used the facilities of the Institut Merieux to develop and produce in large quantities meningococcal vaccine. He then went to Brazil and personally directed a campaign of vaccinating millions of children during an epidemic, thus preventing a wider outbreak.

Dr. Merieux earned two bachelor's degrees prior to entering medical school in Lyons. While in his last year of medical school, in 1937, he assumed responsibility for a laboratory that had been started in 1897 by his father, Marcel Merieux, who collaborated with Louis Pasteur.

His first great immunological success was in the development of a vaccine for hoof and mouth disease, which was rapidly spreading in Europe after World War II. In this effort he demonstrated his unusual talent for working with all the forces of industrial biology to perfect a vaccine whenever one was demanded by emerging circumstances. Dr. Merieux founded the French Institute of Hoof and Mouth Disease in 1947 as part of his response to the outbreak. This Institute soon facilitated the preparation of new vaccines against polio and led to the development of vaccines against German measles and rabies in 1965.

In 1955 he organized the first meeting on biological standardization to foster a climate of collaboration among researchers, manufacturers, and controllers of vaccines. He established the Marcel Merieux Foundation in 1967 to help carry on modern biological research and development in the spirit of Pasteur and to develop international activities in preventive medicine.

His great skills in developing vaccines is matched only by his ability to mobilize other leaders to work collaboratively to promote preventive medicine. He is known as a gentleman who is always respectful of other people's views. This enabled him to lead not only many successful prevention efforts, but also an extremely successful company.

In recognition for his great and unusual talents Dr. Merieux has received several honorary degrees throughout the world as well as several honors, including Grand Officer, Legion d'Honneur; Gold Medal of Health for All, the World Health Organization; Chevalier of the Order of George I of Greece; Commander, Brazilian Croix du Sud; Jubilee Awards in Science and Humanities, Weizmann Institute in Israel; and Commander of the National Order of Merit of France.

#### DOCTOR OF SCIENCE — DEBHANOM MUANGMAN

Dr. Debhanom Muangman is a graduate of Jefferson Medical College who, since his return to Thailand, has become one of the most important leaders in public health in the Asia Pacific region. He is currently the Dean of the School of Environmental and Resource Studies at Mahidol University in Bangkok, and prior to that he was the Dean of the University's School of Public Health for 16 years. During that time he established several public health degree programs, and the school became the largest school of public health in Asia.

Dr. Muangman served as an advisor to many organizations, including the World Health Organization, UNICEF, the World Bank, the Thai Parliament, and the Thai Ministry of Public Health. He also served in a variety of leadership positions, including Chairman of the Health and Environmental Committee of Thailand, President of the International Public Health Association of Asia, and President of the Asia Pacific Academic Consortium for Public Health (APACPH). APACPH was formed in 1980 by Dr. Muangman in collaboration with four other deans of public health schools. Today it includes 31 universities throughout the Asia Pacific region.

Dr. Muangman came to Jefferson after receiving his bachelor's degree from Grinnell College. Upon graduating in 1962, he attended Harvard University, where he received a doctorate in public health. He also graduated from the United Nations' Development Institute and Thailand's National Defense College. In addition to his service as an academic and public leader, Dr. Muangman also has authored seven textbooks, served on many editorial boards, helped establish three scholarly journals, and written more than 200 articles in his field.

Dr. Muangman has used his leadership positions to raise awareness of a variety of public health concerns caused by political turmoil, economic development, and increased urbanization. He has mobilized educational and governmental forces to combat the spread of AIDS, deliver primary care to urban and rural poor, and improve health conditions in refugee camps. As Dean of the School of Environmental Resources and Studies, Dr. Muangman also conducted extensive environmental research addressing issues such as the misuse of agricultural chemicals and increased air pollution.

Among Dr. Muangman's many honors and prizes are the Medal for Outstanding International Public Health Worker from the University of Hawaii, the Outstanding Health Educator of Thailand Award, and the Professor Kazue McLaren Health Leadership Award from the Asia Pacific Academic Consortium for Public Health.

#### THE UNIVERSITY MACE

The Thomas Jefferson University mace, carried for the first time in the 1986 commencement ceremonies by the grand marshal, was designed and cast by Howard Serlick, member of the Guild of Mastercraftsmen, Winterthur Scholar, and Chief Conservator (Gilding) of the Historical Society of Pennsylvania. It was crafted by silversmith Eugene Zweigle and woodturner Michael Copeland.

The four-foot-long, fourteen-pound mace is made of ebony highlighted with lapis lazuli to reflect Jefferson's colors (black and blue). It features a miniature of Henry Mitchell's sculpture, *The Winged Ox*, symbol of Saint Luke the Physician, the original of which stands beside the Scott Building on Walnut Street. The miniature was cast in silver by Mister Zweigle, who also fabricated the University seal, the profile of Thomas Jefferson, mounted at the base of the staff. The J. E. Caldwell Company coordinated the project.

Mister Mitchell's original statue of *The Winged Ox*, adopted by the University in 1976 as its symbol of clinical excellence, is mounted on a column containing the names of fifty medical scientists who have most advanced the art of healing. It also reflects the historical evolution of Thomas Jefferson University from its beginnings as Jefferson Medical College in 1824 to its current status as an academic health center comprising the Medical College, the College of Allied Health Sciences, the College of Graduate Studies, and the Thomas Jefferson University Hospital.

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



## THE ACADEMIC COSTUME

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

Throughout the years European universities have continued to show great diversity in their academic dress. American universities on the other hand, when they decided to adopt academic dress in 1895, immediately established a code of regulations which today is followed by almost all American institutions. The establishment of this code has made it possible to distinguish the associates, bachelors, masters, and doctors and at the same time recognize the university which has given them the degree. Revisions to the code have occurred from time to time.

The associate's of arts and bachelor's gowns have pointed sleeves and are worn closed. The master's gown has oblong sleeves, open at the wrist. The rear part of its oblong shape is square cut and the front part has an arc cutaway, and is worn open or closed. The Doctor's gown has bell-shaped sleeves. It is worn open or closed. Cotton poplin or similar material is used for the associate's, bachelor's, and master's degrees, and rayon- or silk-ribbed material is used for the doctor's degree. The majority of gowns are black, but a number of institutions have adopted other colors to identify special programs or groups within the institution.

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

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

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

white .....	arts and letters	green .....	medicine
tan .....	business	apricot .....	nursing
lilac .....	dentistry	dark blue .....	philosophy
light blue .....	education	salmon pink .....	public health
purple .....	law	golden yellow .....	science

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

black and blue .....	Thomas Jefferson University	silver gray and scarlet .....	The Medical College of Pennsylvania
red and blue .....	University of Pennsylvania		
blue and gold .....	Hahnemann University	white and cherry .....	Temple University

## THE JEFFERSON PROCESSIONAL

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



