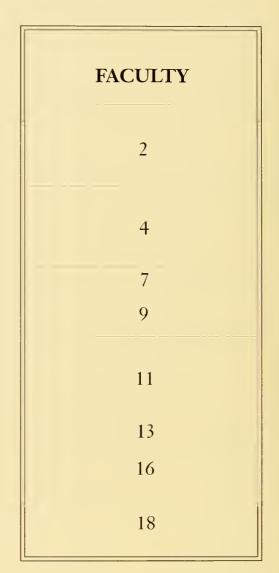
The Johns Hopkins University

Conferring of Degrees At the Close of the 121st Academic Year May 22, 1997

CANDIDATES' SEATING GILMAN HALL STAGE

 FACULTY	
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- 1 Doctors of Philosophy Arts & Sciences
- 2 Doctors of Philosophy Medicine Doctors of Medicine
- 3 Doctors of Philosophy SAIS
- 4 Doctors of Science, Doctors of Public Health, Doctors of Philosophy — Hygiene & Public Health
- 5 Doctors of Musical Arts, Artist Diplomas Peabody
- 6 Doctors of Education Continuing Studies
- 7 Masters Medicine
- 8 Masters Arts & Sciences

- 9 Masters Hygiene & Public Health
- 10 Masters Engineering
- 11 Masters Continuing Studies
- 12 Masters & Bachelors Nursing
- 13 Certificates & Bachelors Continuing Studies
- 14 Masters & Bachelors Peabody
- 15 Masters SAIS
- 16 Bachelors Engineering
- 17 Bachelors (A-M) Arts & Sciences
- 18 Bachelors (N-Z) Arts & Sciences



Office of the Registrar 75 Garland Hall / 3400 N. Charles Street Baltimore MD 21218-2688 (410) 516-8080

July, 1997

For those who use the Commencement Program as an official record of the awarding of degrees, please note the following changes to the 1997 Commencement Program:

- 1. Bachelors of Science in Biomedical Engineering G.W.C. Whiting School of Engineering (Page 27)
 - Add:

Timothy Lim

Delete: Maneesh Ashok Bhide Sergio Mauricio de del Castillo

2. <u>Bachelors of Science in Chemical Engineering</u> G.W.C. Whiting School of Engineering (Page 27) Add:

Kira Getz

- <u>Bachelors of Science in Computer Science</u> G.W.C. Whiting School of Engineering (Page 27) Delete: Caleb Seth Ciampaglia
- Bachelors of Science in Electrical Engineering G.W.C. Whiting School of Engineering (Page 27) Delete: David Michael Chidiebele Chuke

Greg K. Chong Kyu Kim

Wesley Chandler Wood

Samuel Suk Kim Ranjeeth Thunga

5. <u>Bachelor of Arts</u> Zanvyl Krieger School of Arts and Sciences (Pages 28-31)

Add: Miryn Alcantara Ajay Kamal Bhatia Cyrus Fassihi Anita Hadpawat Andrew Graves

Delete:

Vincent Morrison Bohlinger	Vikram Harjai	
Raju Bohra	Stephen Anthony Knight	
Robert Colin Carter	John Arthur Paxton	
Martin Lloyd George Ellis	William Scovell Shear	
Carl David Forster	Yang Sun	
Eric David Friedlander	Ranjiv Vaidya	
M. Miyoun Han	Andrew Eric Zeeman	

6. <u>Performer's Certificate</u> Peabody Institute (Page 31) Delete:

Todd Thiel. Violincello

- 7. <u>Bachelor of Music</u> Peabody Institute (Page31-32)
 - Add:

Nancy Sharon Cox. Voice

Delete:

James Thayer Kelley, III. Percussion Wayne Ramon Newman. Trumpet. John G. Parton. Composition.

8. <u>Certificates in Hopkins Leadership Development Program</u> The School of Continuing Studies (Page 33) Delete:

Diane Denise Tunstall

9. <u>Certificates of Hopkins Fellows in Change Management</u> The School of Continuing Studies (Page 33) Delete:

Fontelle Gilbert Joan F. Scott

10. <u>Masters of Science</u> The School of Continuing Studies (Pages 34 - 44)

Add:	
James Joseph Casey	Kevin Jude Scholten
John W. Egan	John R. Suydam
Liliam Mary Mihm	Dana O. White
Julie Howell Nass	Jennifer Elizabeth Young
Melinda Margaret Ostermeyer	

Delete:	
John William Conroy	Lisa Baker Huot
John Paul Di Leo, Jr.	Gerald Henry Pogue
Margaret Marie Engl	Patrick T. Richards
Bryan Keith Gathagan	Andrew Marriner Spawn
Page Koch Herman	Susan Tirrell Streeter
Cynthia M. Hillsman	Gregory George Wagner

11. <u>Masters of Liberal Arts</u> The School of Continuing Studies (Page 45)

Delete: Michelle Hall Holdway Maryann Susan Rada 12. Masters of Arts in Teaching The School of Continuing Studies (Page 45)

Delete: William Steven Brohawn Shane M. Devlin Myrtice Lucretia Harris Nearon

13. Masters of Drama Studies The School of Continuing Studies (Page 45)

Delete: Jeanette Emma Festa

14. Masters of Music Peabody Institute (Pages 46-47)

Add:

Heath Jason Hitchcock. Guitar Michael Scott Uhrich. Computer Music Composition. Michael S. Wann. Music Education.

Delete: Jay Austin Bitner, Jr. Voice. Holly Thomson DiClaudio. Voice Soyoung Hyun. Violincello.

Peter Christof Murphy. Voice. Nyepu Byrl Nyomo. Voice.

15. <u>Masters of Science with a major in Nursing and Masters of Public Health</u> The Schools of Nursing and Hygiene and Public Health (page 47) Add:

Martha Schlenger Rabicoff

16. Masters of Health Science School of Hygiene and Public Health (Pages 47-49)

Add: Lisa Marie Castro Wen Hong Linda Kao

Delete: Alvina Kai-mund Chu Marlette Emma Joan Franklin Mark David Isenstein Isaac Bryan Jones Julie Michelle Barth Kacergis

Chie Kojima Anahid Maria Pahlawanian Robin Mary Shank Patrick Um Judy Kiang Wang 17. Master of Public Health School of Hygiene and Public Health (Pages 50-51)

Add: Asif Syed Hasan Ronda Carol Tally

Delete: Colin Ohrt Phillipa Jane Walmsley

18. Master of International Public Policy School of Advanced International Studies (Page 51)

Add: Monica Echeverria-Cota Ivan Wray

Delete: Jack Bar Giora Francisco Echeverri-Lara William Kimball Frymoyer, Jr. Tracy Hoeffel

Anita Nässtrom-Ekman

Umio Otsuka Thomas C. Rogers Linda Feldmann Roe Denise Anne Vaillancourt Stephen Fredric Vogel

19. Master of Arts School of Advanced International Studies (Pages 51-52)

Add: Eric William Bellman James M. Cerenzia Mary Louise Horkowitz D. Arob Kwol Kirk Wilson McLaren

Delete:

Candace Renee Bacon Ellen Johanne Bakke Thomas J. Baks Ray C. Brandon, II Kerry Therese Breen Jason E. Bruder Paul W. Butler Benjamin Cade Canavan Carl Cederstrom Frank Scott Colin Douglas, IV Andrea Marie Erdmann Deborah J. Foster Elizabeth Faison Gentry John Brigance Searles Joseph C. Sharpe, Jr. Takeshi Takeushi Michael Anthony Veasy Tosha Nicole Wilkes Marc Russell Young

Wendy Foster Halbert Tracy D. Henry David Frederick Heyman Chi-Wen Ho Meiko Imai Veronque Lanthier Sheri-Ann Levy Mark Alexander McGee Iris Mwanza Jonathan Mark Pascale R.M. Phimster Susannah L. Pierce Nadeem Qureshi Michael Dean Sessums Makiko Shinoda Jeffrey D. Sigal Jason Kennedy Singer Kay Storek John Sulski Darius Antanas Suziedelis John Thor Vaaler Ian Vasquez Matthew Wheelock

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Revise: Phillip N. Assis is recorded twice

20. Masters of Environmental Engineering G.W.C. Whiting School of Engineering (Page 53)

- Add: Nam Keun Cho Jeffrey Williams
- Delete:

Lois Marie James

21. Masters of Science G.W.C. Whiting School of Engineering (Pages 54-59)

		01	· 0 ·
D	C.	CI	с.

Christopher Robert Appleman		
Maureen Angela Bageant		
Angelo R. Bencivenga		
Hong Sol Cho		
Stephen Vincent DePalo		
Peter Hickok Johnson		
Ronald Lee Jones		

Stephen James Katona Michael Earl Morris David John Richardson James M. Timper, Jr. Jeffrey Brent Williams Robert Allen Woodburn Genevieve Scherer Yager

Revise:

Walter Leonard Carper, III; Systems Engineering (not Technical Management)

22. <u>Post Master's Advanced Certificates</u> G.W.C. Whiting School of Engineering (Page 59) Delete:

David Michael Dailey, Jr.

23. Masters of Science in Engineering G.W.C. Whiting School of Engineering (Pages 59-60)

Add:

John Marshall Clark, Electrical and Computer Engineering Truxton Fulton, Computer Science Min She, Mechanical Engineering Jialin Song, Civil Engineering Bo Tao, Mechanical Engineering Amy Waters, Mechanical Engineering

Delete:

Charles Alex Collins Steven Paul Marra

Revise:

Wenyi Jiang, Computer Science (not Mechanical Engineering)

24. Masters of Arts Zanvyl Krieger School of Arts & Sciences (Pages 60-62)

Add: Juliette C. Wells; Humanities

Delete: Jonathan W. England Irene Francis Kim

Revise spelling for: Goncalo A.I. Lopes da Fonseca

25. <u>Masters of Science in Biotechnology</u> Zanvyl Krieger School of Arts and Sciences (Pages 62-63)

Delete: Carl David Gajewski

26. <u>Masters of Science in Environmental Sciences</u> Zanvyl Krieger School of Arts and Sciences (Page 63) Delete: Mary M. Grogard

Delete

27. Masters in Government Zanvyl Krieger School of Arts and Sciences (page 64)

Delete.	
Ian Michael Berkowitz	Mouhamadou Moustapha Dia
Stacy A. Bohlen	Laurence Mullins McCredy
Karen Ann Brophy	

28. <u>Artist Diploma</u> Peabody Institute (Page 65) Add: Stephen R. Turley. Guitar

1

29. <u>Doctor of Musical Arts</u> Peabody Institute (Page 65) Add:

Paul Charles Tseng. Violincello

30. <u>Doctor of Philosophy</u> G.W.C. Whiting School of Engineering (Pages 71-72) Revise:

Dwight S. Wilson, Computer Science (not Mathematics)

31. <u>Departmental Honors</u> Zanvyl Krieger School of Arts & Sciences (Page 25-26)

Add: Weekiat Ng Edward Allen Vessel Digitized by the Internet Archive in 2012 with funding from LYRASIS Members and Sloan Foundation

http://archive.org/details/commencement1997

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Student Honors24

Degree Candidates27



For those wishing to take photographs of graduates receiving their diplomas, we request that you do so only in the area designated for this purpose located just to the left of the stage. To reach this area, please walk around the outside of the tent, where ushers and security officers will assist you. Do not walk in the three center aisles as these are needed for the graduates. We appreciate your cooperation.

ORDER OF PROCESSION

Marshals

Timothy Alan Barbari Bruce A. Barnett Edward John Bouwer Adam F. Falk Dorothy L. Gordon Susan Hahn H. Franklin Herlong Cila Herman Byron R. Levy George Liska Gary Louie Katrina Bell McDonald Nancy R. Norris Peter B. Petersen David S. Salkever Edyth H. Schoenrich

The Gradnates

Marshals

Grace S. Brush

The Faculties

Marshals

Benjamin Ginsberg

Edward R. Scheinerman

Douglas M. Fambrough

The Deans Members of the Society of Scholars The Trustees Officers of the University

> *Chief Marshal* Martha N. Hill

The President of the Johns Hopkins University Alumni Association

The University Chaplain

The Faculty Presenter of the Doctoral Candidates

The Honorary Degree Candidates

The Provost of the University

The Chairman of the Board of Trustees

The President of the University



Order of Events

William R. Brody President of the University, presiding

Prelude Domine Salvum Fac Charles Gounod (1818-1893)

> Gaudeamus Igitur Traditional

Sonata No. 22 Johann Pezel (1639-1694)

Processional

The audience is requested to stand as the Academic Procession moves into the area and to remain standing after the Invocation.

Festive Marches from *Belshazzar*, *Floridante*, *Ezio*, *Saint Cecilia's Day*, *Rinaldo and Scipione* Georg Friedrich Handel (1685-1759)

> The President's Procession Fanfare Walter Piston (1894-1976)

March from *Judas Maccabaeus* Georg Friedrich Handel (1685-1759)

> Invocation Sharon M. K. Kugler The University Chaplain

The National Anthem of the United States of America

Greetings Michael R. Bloomberg Chairman of the Board of Trustees



Greetings

Mary Frances Keen President, The Johns Hopkins University Alumni Association

Presentation of New Members of The Society of Scholars

Po-Ya Chang Mahlon R. DeLong James K. Edzwald Timothy S. Harrison David M. Lawrence Allen Sollie Lichter Lechaim Naggan Jennifer R. Niebyl Shin-Ichiro Nishimura Robert G. Robinson Kenji Sunagawa Noriko Takahashi John E. Wennberg Anne B. Young

Scholars Presented by Steven Knapp Provost and Vice President for Academic Affairs

Conferring of Honorary Degrees

Lord Butterfield of Stechford Johnnetta Betsch Cole William G. Fastie Saul Aaron Kripke Pasqual Maragall i Mira André Watts

Address

William R. Brody President of the University

CONFERRING OF DEGREES ON CANDIDATES

Bachelors of Science in Biomedical Engineering Bachelors of Science in Chemical Engineering Bachelors of Science in Civil Engineering Bachelors of Science in Computer Engineering Bachelors of Science in Computer Science Bachelors of Science in Electrical Engineering Bachelors of Science in Materials Science and Engineering Bachelors of Science in Mathematical Sciences Bachelors of Science in Methanical Engineering Bachelors of Science in Methanical Engineering Bachelors of Science in Methanical Engineering Bachelors of Arts in Biomedical Engineering Bachelors of Arts in Computer Science Bachelors of Civil Engineering Bachelors of Electrical Engineering Bachelors of Methanical Engineering

Presented by

Don P. Giddens Dean, G.W.C. Whiting School of Engineering

Bachelors of Arts

Presented by Steven Knapp Dean, Zanvyl Krieger School of Arts and Sciences

> Performer's Certificates Bachelors of Music

Presented by Robert Sirota Director, Peabody Conservatory of Music



Bachelors of Science

Presented by Sue K. Donaldson Dean, School of Nursing

Bachelors of Liberal Arts Bachelors of Science Certificates of Hopkins Leadership Development Program Certificates of Hopkins Fellows in Change Management Certificates of Women, Leadership and Change

> Presented by Stanley C. Gabor Dean, School of Continuing Studies

Masters of Science Masters of Liberal Arts Masters of Arts in Teaching Masters of Administrative Science Masters of Drama Studies Certificates of Advanced Gradnate Study

Presented by Stanley C. Gabor Dean, School of Continning Studies

Graduate Performance Diplomas Masters of Music

Presented by Robert Sirota Director, Peabody Conservatory of Mnsic

Masters of Science in Nursing

Presented by Sue K. Donaldson Dean, School of Nursing



Masters of Science in Nursing and Masters of Public Health

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Presented by Sue K. Donaldson Dean, School of Nursing and Alfred Sommer Dean, School of Hygiene and Public Health

> Masters of Science Masters of Health Science Masters of Public Health

Presented by Alfred Sommer Dean, School of Hygiene and Public Health

Masters of International Public Policy Masters of Arts in International Affairs Masters of Arts

> Presented by Paul D. Wolfowitz Dean, Paul H. Nitze School of Advanced International Studies

> > Masters of Arts

Presented by Edward D. Miller, Jr. Dean, School of Medicine



Masters of Civil Engineering Masters of Environmental Engineering Masters of Materials Science and Engineering Masters of Mechanical Engineering Masters of Science Post-Master's Advanced Certificates Masters of Science in Engineering Masters of Arts

Presented by Don P. Giddens Dean, G.W.C. Whiting School of Engineering

Masters of Arts Masters of Science in Biotechnology Masters of Science in Environmental Sciences Masters of Arts in Writing Masters in Government

Presented by Steven Knapp Dean, Zanvyl Krieger School of Arts and Sciences

Doctors of Education

Presented by Stanley C. Gabor Dean, School of Continuing Studies

> Artist Diplomas Doctors of Musical Arts

Presented by Robert Sirota Director, Peabody Conservatory of Music



Doctors of Science Doctors of Public Health Doctors of Philosophy

Presented by Alfred Sommer Dean, School of Hygiene and Public Health

Doctors of Philosophy

Presented by Paul D. Wolfowitz Dean, Paul H. Nitze School of Advanced International Studies

> Doctors of Medicine Doctors of Philosophy

Presented by Edward D. Miller, Jr. Dean, School of Medicine

Doctors of Philosophy

Presented by Don P. Giddens Dean, G.W.C. Whiting School of Engineering

Doctors of Philosophy

Presented by Steven Knapp Dean, Zanvyl Krieger School of Arts and Sciences

Recessional

Trumpet Tune John Stanley (1713-1786)

March from *Fidelio* Ludwig van Beethoven (1770-1827)

The audience is requested to remain standing until the principals, officials, members of the faculties, and the graduates have left the area.



DIVISIONAL DIPLOMA CEREMONIES INFORMATION

The Zauvyl Krieger School of Arts and Sciences Masters Diploma Ceremony will be held at 6:30 p.m. this evening in Shriver Hall Auditorium. Reception will follow the ceremony. Recipients of the Ph.D. degree from Arts and Sciences and their guests are welcome.

The G.W.C. Whiting School of Engineering Masters Diploma Award Ceremony was held last evening.

The Zanvyl Krieger School of Arts and Sciences and the G.W.C. Whiting School of Engineering Undergraduate Diploma Award Ceremony will be held at 2:30 p.m. this afternoon on the Keyser Quadrangle.

The School of Continuing Studies Undergraduate and Graduate Diploma Award Ceremouy will be held at 7:30 p.m. this evening on the Keyser Quadrangle. Reception will follow the ceremony.

The Paul H. Nitze School of Advanced International Studies Diploma Award Ceremony will be held at 3:00 p.m. this afternoon at the Lincoln Theatre, 1215 U Street, N.W., Washington, DC. Reception will follow the ceremony at the Nitze School.

The School of Hygiene and Public Health Diploma Award Ceremony was held yesterday afternoon.

The School of Medicine Diploma Award Ceremony was held yesterday afternoon.

The School of Nursing Diploma Award Ceremony will be held at 4:00 p.m. this afternoon in Turner Auditorium.

The Peabody Conservatory Diploma Award Ceremony will be held at 8:00 p.m. this evening in the Miriam A. Friedberg Concert Hall.



THE JOHNS HOPKINS SOCIETY OF SCHOLARS

The Johns Hopkins Society of Scholars was created on the recommendation of President Milton S. Eisenhower and approved by the University Board of Trustees on May 1, 1967. The society—the first of its kind in the nation—inducts former postdoctoral fellows and junior or visiting faculty at Johns Hopkins who have gained marked distinction in their fields of physical, biological, medical, social, or engineering sciences, or the humanities, and for whom at least five years have elapsed since their Hopkins affiliation. The Committee of the Johns Hopkins Society of Scholars, whose members are equally distributed among the academic divisions, elects the scholars from the candidates nominated by the academic divisions having programs for postdoctoral fellows. The scholars are invested at the time of Commencement, Commemoration Day, or a similar occasion. At that time, they are presented with a diploma and with a medallion on a black and gold ribbon, to be worn with their academic costumes.

The following listing of the Society of Scholars members elected in 1997 is accompanied by a short description of their accomplishments at the time of election to the society.

Po-Ya Chang '77 Taipei, Taiwan, Republic of China

Dr. Chang was among the first to recognize the public health problems emerging in Taiwan due to rapid socioeconomic and demographic change. She initiated research in occupational health, focusing on workers' exposure to lead, and has been a pioneer advocate for women's health. She has served as mayor of Chaiyi City, population 300,000, and in 1990 was appointed to her present position as director-general of the newly created National Department of Health for Taiwan.

Mahlon R. DeLong '77 Atlanta, Georgia

Dr. DeLong's research in neurology has changed the way we think about and treat two major illnesses: Alzheimer's disease and Parkinson's. He was among the team that recognized the depletion of cholinergic neurons in the nucleus basalis in Alzheimer's patients and has led the profession to reconsider how the basal ganglia function in relation to the brain stem. A clinician-investigator par excellence, he is currently professor and chairman of Neurology at Emory University School of Medicine.

James K. Edzwald '81 Amberst, Massachusetts

Dr. Edzwald's research and teaching in environmental engineering, particularly in the area of water supply and water quality, have earned him wide recognition. Currently professor and head of the Department of Civil and Environmental Engineering at the University of Massachusetts, he has held positions at several universities, including Johns Hopkins, during his distinguished career. His work has garnered him professional prizes, as well as many consulting assignments; he recently served on an EPA panel concerning the New York City water supply.

Timothy S. Harrison '77 Hersbey, Pennsylvania

A skilled surgeon and researcher, Dr. Harrison has made internationally recognized contributions in the field of endocrine surgery and has expanded our understanding of endocrine function, dysfunction, and neoplasms. He completed his residency in the Department of Surgery at the Johns Hopkins School of Medicine in 1956; after a distinguished career as both physician and mentor, he is now professor emeritus of surgery and physiology at the Milton D. Hershey Medical Center of the Pennsylvania State University.

David McKinnon Lawrence '72 Oakland, California

A graduate of the General Preventive Medicine Residency Program at the School of Hygiene and Public Health, Dr. Lawrence has developed innovative health-care delivery systems to meet the challenges of large populations. He was one of the first to advocate the use of physicians' assistants and is committed to preventive care. As chairman and chief executive officer, he has led the Kaiser Foundation Health Plan to consistently high-quality assurance evaluations.

Allen Sollie Lichter '81 Ann Arbor, Michigan

During his tenure as chairman, Dr. Lichter has led the Department of Radiation Oncology at the University of Michigan Medical School to become one of the premier departments in the country. He developed clinical trials to improve breast cancer treatment and has pioneered the use of three-dimensional methods for tumor diagnosis and treatment. Last year the *New England Journal of Medicine* honored his achievements by inviting him to author the journal's "Medical Progress" monograph on "Recent Advances in Radiation Oncology."

Lechaim Naggan '75 Beer Sheva, Israel

Dr. Naggan combines the talents of researcher and administrator. A physician epidemiologist, he has investigated clinical problems such as congenital malformation and viral hepatitis, but he has also studied health services, successfully evaluating, for example, the health needs of Bedouins, a group unaccustomed to Western models of health care. He has served as Israeli deputy surgeon general, and is currently vice president and dean for research and development at Ben-Gurion University of the Negev.

Jennifer R. Niebyl '84 Iowa City, Iowa

Dr. Niebyl's commitment to research, education, and clinical practice in obstetrics and gynecology is reflected in the variety of her accomplishments. Currently professor and head of medicine in that department at University of Iowa College, she also co-edits two professional journals. In the classroom she appears not only as a fine teacher, but also as co-editor of a widely used obstetrics textbook. Her research continues to generate new articles and book chapters. She is a respected leader in obstetrics and gynecology today.

Shin-Ichiro Nishimura '86 Sapporo, Japan

Dr. Nishimura's work in polymer chemistry and glycobiology holds promise for new treatments of diseases such as influenza and AIDS; the work has produced a flurry of publications—more than 100 in nine years—and remarkable professional recognition. Since taking his Ph.D. in 1987, he has risen to become professor and director of the Division of Biological Science in the graduate school at Hokkaido University, as well as an editor of scientific journals and a member of the advisory boards of several scientific associations.

Robert G. Robinson '70 Iowa City, Iowa

By identifying the depressive disorder associated with stroke, Dr. Robinson has made a crucial contribution not only to neurology and psychiatry, but also to the treatment and rehabilitation of patients who suffer from stroke. His work has helped us understand the cerebral mechanism behind affective disorder and its role in the depression and mania symptomatic of that disorder. These contributions have made Dr. Robinson a leader in American psychiatry.

Kenji Sunagawa '78 Osaka, Japan

From the time Dr. Sunagawa began his postdoctoral work at the School of Medicine in 1978, he has been breaking new ground in cardiovascular research. Beginning with work he did here, which helped define the dynamic relationship between the left ventricle and its artery, he and his research team have recently developed crucial insights into cardiovascular control systems. A book he co-authored has become the standard reference for understanding the pressure-volume approach to ventricular function.

Noriko Takabashi '78 Handa-City, Japan

Dr. Takahashi has made two important contributions in the field of glycobiology, both of which help scientists analyze the structure of carbohydrates in glycoconjugates. She discovered glycoamidase, an enzyme which has become an indispensable tool for studying glycoproteins, and she developed new chromatic methods for carbohydrate analysis. Dr. Takahashi is also distinguished in the history of Japan: she was the first woman graduate of Nagoya University (1951) and the first woman in Japan to obtain an engineering degree.

John E. Wennberg '77 Hanover, New Hampshire

In studying the way physicians work, Dr. Wennberg invented the concept of "small area variation," which demonstrated for the first time, and in a scientifically rigorous way, that equally capable physicians in adjacent geographic areas practice medicine very differently. He developed the analytical methods needed to form the core of a new field: practice variation. Studies in this field point the way toward better clinical guidance for physicians and more consistent communication with patients about treatment options.

Anne B. Young '78 Cambridge, Massachusetts

From the molecule to the clinic, Dr. Young has taken up major questions in the field of neurology. She produced a body of research which elucidates the role of excitatory neurotransmitter glutamate in brain function, and has been a key clinical investigator of Huntington's disease, helping identify the genetic abnormality that appears to cause it. At Harvard, Dr. Young is considered an extraordinary chair of Neurology, having guided both research and clinical activities to new levels of achievement.

Citation Read by Edward D. Miller Jr. in Presenting The Right Honorable Lord Butterfield of Stechford for the Degree of Doctor of Humane Letters May 22, 1997

Your relationship with Johns Hopkins began in the bitterest days of World War II, when you left London because of the blitz to continue your education here at the School of Medicine. Even then, we almost lost the opportunity to meet you: the ship in which you were traveling was torpedoed and sank in the Atlantic. Luckily for you and for us, a Canadian destroyer picked you up, and eventually you made it to Baltimore. You have been a good friend to us and to the medical profession ever since. We thank you for coming to accept this honor today, and trust your trip was less eventful than the first one.

After graduating from the School of Medicine in 1944, you returned to England, where you built a distinguished career. You began at Guy's Hospital and eventually rose to the position of Regius Professor of Physics at Cambridge, which you held from 1976 to 1987. Since then, you have turned your talents to administration, recently having retired from your position as chairman of the Council of Governors of the United Medical and Dental Schools of Guy's and St. Thomas's Hospitals. Your contributions to our understanding and treatment of diabetes and your integrity as a physician have brought you honors from all over the world.

Lord Butterfield, in recognition of your contributions to the study of diabetes, to the practice of medicine and to this institution, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa*.

Citation Read by Stanley C. Gabor in Presenting Johnnetta B. Cole for the Degree of Doctor of Humane Letters May 22, 1997

In a recent essay, in 33 Things Every Girl Should Know, you tell young women, "Follow your passion." We honor you today because you have followed yours.

Your passion has always been to celebrate and foster the strength of women of color. That passion characterized your 13 years as a professor of anthropology and Afro-American studies at the University of Massachusetts, and your teaching at Oberlin, Williams and Hunter colleges. And—10 years ago—it brought you to the presidency of Spelman College.

As the first female African-American president of Spelman College, you have led it further into the ranks of America's outstanding colleges by creating a special environment on campus and by reaching out into the world Spelman graduates will meet. You have forged new links between the college and the business community in Atlanta and beyond. You have organized faculty exchanges with major research institutions around the country. Your leadership has inspired alumni and friends of the college to unprecedented generosity: in 1996, Spelman completed its capital campaign with the largest sum ever raised by a historically black college. And, not least, you have declared yourself the "surrogate mother" of the more than 1,900 women enrolled at Spelman today.

Johnnetta B. Cole, for dedicating your energy, vision, intelligence and passion to the advancement of higher education and of women of color, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa*.

Citation Read by Arthur F. Davidsen in Presenting William Fastie for the Degree of Doctor of Humane Letters May 22, 1997

A Baltimore native, you first came to Hopkins in 1934 for classes at the night school; half a century later, we look to you as the father of the Hopkins space program. Somehow, you never finished the degree you started here. You were too busy making history.

Your legacy here takes many forms: your invention, made public in 1952, of a spectrometer small enough and rugged enough to withstand a rocket launch in turn launched Hopkins' involvement with space exploration. Later, your mentorship of younger scientists on the faculty produced such projects as the Faint Object Telescope, which gave us our first look at the ultraviolet light from a quasar. Now, decades later, the science you fostered flies in the most advanced instruments, and Johns Hopkins is home to the Space Telescope Science Institute.

But you were ever modest. Your spectrometer design was, you have always said, not really yours but Hermann Ebert's, since after much searching you found that he described the same design in the late 19th century.

William Fastie, in honor of a life dedicated to this institution, to teaching, to mentoring, to science and to discovery, The Johns Hopkins University is proud to confer upon you this, your first academic degree: Doctor of Humane Letters, *honoris causa*.

Citation Read by Steven Knapp in Presenting Saul Aaron Kripke for the Degree of Doctor of Humane Letters May 22, 1997

Early in life you began thinking about thought and its manifold relations to the world. Today we find the fruits of that consideration scattered over many fields. "Kripke models" for modal logic became part of the standard vocabulary of mathematical logicians after your first article appeared in 1963, when you were just 23 years old. Kripke models and the results that depend upon them are cited today not only in philosophy and logic, but also in linguistics and computer science. In the philosophy of language, your book *Naming and Necessity* gave us crucial components of what has since become the accepted theory of how language relates to the world. Your "Outline of a Theory of Truth" showed us how the ancient "liar paradox" could serve as the foundation of a bold and original account of truth. And your reading of Wittgenstein's *Philosophical Investigations* has fundamentally altered our perspective on his later work. In fact, your thought and Wittgenstein's on certain central issues have become so fused that many now speak of the "Kripkenstein skeptical paradox."

By the time that first article appeared, you had been appointed to the Society of Fellows at Harvard; since then, you have held faculty positions at Rockefeller University, Harvard, Cornell and Princeton, where you are now McCosh Professor of Philosophy. Through numerous visiting positions and lectureships, your ideas have reached audiences well beyond your own campus and your own discipline. In recognition of your achievements, the Guggenheim Foundation has twice awarded you a fellowship.

Saul Aaron Kripke, in recognition of your contributions to intellectual life over the last three decades, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *bonoris causa*.

Citation Read by Don P. Giddens in Presenting Mayor Pasqual Maragall i Mira for the Degree of Doctor of Humane Letters May 22, 1997

In the decades following the end of Franco's regime in Spain, the people of Barcelona called you to lead their city as mayor. And lead you have, for 15 years.

There is a bit of Baltimore in Barcelona, too. In 1978, when you were a senior fellow at what was then the Hopkins Center for Metropolitan Planning and Research, the idea of Baltimore's Inner Harbor redevelopment was emerging. You took the notion of revitalizing an aging port and applied it to your city. Your subsequent leadership in the expansion and revitalization of the metropolitan area of Barcelona has become one of Europe's great success stories.

Four years after you first took office in 1982, Barcelona was selected to host the 1992 Summer Olympic Games. Then you led the city in an urban development program the likes of which Barcelona had never seen. When the world finally arrived at your door, it was your city that won a gold medal.

Your remarkable reputation for honesty and integrity has served you well as you played a key role in setting up Europe's Embassy for Local Democracy, in Sarajevo, when Bosnia was in crisis. And you have been active in several European and United Nations initiatives to address the issue of urban development around the world.

Pasqual Maragall i Mira, in recognition of your contributions to urban life in Spain and around the world, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa*.

Citation Read by Robert Sirota in Presenting André Watts for the Degree of Doctor of Humane Letters May 22, 1997

As one of the best-known concert pianists of this century, you burst upon the scene in 1963 when Leonard Bernstein chose you—a 16-year-old unknown—to replace the ailing Glen Gould in performances of Liszt's E-flat Concerto with the New York Philharmonic.

Among your accomplishments have been the first full-length piano recital in television history and the first broadcast during prime time. You earned an Artist Diploma at the Peabody Conservatory as a student of Leon Fleisher, while continuing to play with great orchestras all over the world.

You have built one of the most successful concert careers in recent memory. At a time when symphonies are struggling for audiences, your presence on the program starts a run on the ticket office. Your performances are stunning examples of commitment, clarity and artistic risk-taking.

Your recordings have won awards; you have performed for heads of state; you have been accorded praise in abundance by critics and audiences alike. You accept accolades with grace and remain committed to a generous public life. Your involvement with the organization Classical Action: Performing Arts Against AIDS has brought new funds to AIDS services in communities around the country.

André Watts, in recognition of your commitment to some of the finest fruits of the human imagination, and of your efforts to call forth what is the best in the human heart, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa*.

THE UNIVERSITY MACE

The University Mace carried by Chief Marshal, Dr. Martha N. Hill, was first used at the 1954 Commemoration Day Ceremony. Eight symbols are hand wrought in sterling silver on an ebony staff. The symbols represent our cultural development from ancient times, through the Middle Ages and the Renaissance, to the modern era.

THE PRESIDENTIAL INSIGNIA

University President William R. Brody is wearing the Presidential Insignia signifying the authority vested in the President by the Board of Trustees. It is a chain of sterling silver links worn around the neck. Portraits of Johns Hopkins University Presidents are engraved on the faces of the links. On the reverse are engraved the names and dates of office of each President. Blank links for future use are included. The University Seal completes the design.

ACADEMIC DRESS

The custom of wearing academic dress stems from the Middle Ages, when scholars were also clerics and wore the costume of their monastic order. The hood was originally a cowl attached to the gown, which could be slipped over the head for warmth. The cap was originally round, but has changed to the varieties that we see today.

The gown varies for the respective degrees. The Bachelor's gown is worn closed and can be distinguished by its long, pointed sleeves. The Master's gown is designed to be open with the arms worn through the slits in the elbows of the sleeves. The Doctor's gown, also worn open, has full, bell-shaped sleeves with three horizontal bars stitched across the upper arm. There is a velvet panel draped around the neck and stitched down the front edges. This velvet trimming may be either black or the same color as the velvet border of the hood.

The hood also varies for the respective degrees. The Bachelor's and Master's hoods are of the same design, pointed at the base. The Bachelor's hood is three feet long; the Master's hood is three and one half feet long. The Doctor's hood is four feet long, of fuller shape and rounded at the base.

The hood is bordered with velvet, the color of which indicates the field of study in which the bachelor's, master's, or doctoral degree was earned:

Dark blue — Philosophy Light blue — Education Green — Medicine Salmon pink — Public Health Orange — Engineering Gold-yellow — Science White — Arts and Letters Pink — Music Purple — Law Apricot — Nursing Tan — Business The silk lining of the hood represents the institution which granted the degree. If more than one degree is held, the gown and hood of the higher or highest degree is worn. The Johns Hopkins University has adopted an alternative costume to be used by all holding Johns Hopkins doctoral degrees, both earned and honorary. The costume consists of a gold robe with front and side panels in sable velvet and a six-sided Dutch academic cap with gold sweatband and tassel. The linings seen in today's academic procession may include:

Black, old gold chevron — Johns Hopkins Light blue, white chevron — Columbia Dark blue — Yale Blue with white chevron — Duke Dark blue, two orange chevrons — Illinois Light blue, two white chevrons — North Carolina Old gold, maroon chevron — Minnesota Old gold — Iowa Gold, blue chevron — University of California at Berkeley Gold — Virginia Purple, gold chevron — Northwestern Carnegie Tartan — Carnegie-Mellon Purple — New York University Purple, with gold — University of Washington Bright red — Wisconsin Plum, with scarlet — London Maroon — Chicago Crimson — Harvard Carnelian, two white chevrons — Cornell Cardinal — Stanford Cardinal red and gray — Massachusetts Institute of Technology Red, tri-Chevron in center — Heidelberg Dandelion yellow — Michigan Maize, azure blue chevron — Sorbonne Yellow and white — Rochester

THE UNIVERSITY MOTTO

Veritas vos liberabit. The truth shall make you free. *-St. John 8:32*

AWARDS

In The Schools of Arts & Sciences, Engineering and Medicine

Louis Sudler Prize in the Arts for excellence in the creative arts Jointly Awarded to Eileen Mary Cunningham Loren David Walensky

In The Zanvyl Krieger School of Arts and Sciences and the G.W.C Whiting School of Engineering

American Institute of Chemical Engineers Award for scholastic Achievement To the chemical engineering student with the highest scholastic standing after the sophomore year. *Awarded to Caroline P. Chen*

American Society of Civil Engineers Maryland Section Scholarship To an outstanding junior civil engineering student *Awarded to Joseph A. Main*

American Society of Mechanical Engineering Award Jointly Awarded to David L. Brean Alison M. Walter

Roberto R. Arellano Award for excellence in writing by a Writing Seminars undergraduate *Awarded to Megan A. Costello*

Louis Azrael Fellowship in Communications for demonstrated excellence in a field of mass communications Jointly awarded to Joshua Mark Greenberg Mark A. Ionescu Sandbya R. Jha Jonathan S. Maccabee Stacey P. Patton Douglas J. Steink Lance D. Wahlert

James F. Bell Award for outstanding undergraduate research and scholarly achievement in Mechanical Engineering *Awarded to Keith 7. Martin* Biomedical Engineering Undergraduate Research Award for outstanding effort in research in Biomedical Engineering Jointly awarded to Julia C. Fox 95' Tak Wan 95'

Biomedical Engineering Distinguished Service Award for outstanding service to the academic community *Awarded to Tessa A. Sundaram*

John D. Bruck Memorial Scholarship in Civil engineering Awarded to Stephen E. Kelly

Lucien Brush Award for Excellence in Environmental Engineering for outstanding academic achievement in Environmental Engineering by a graduating senior *Awarded to Sarah E. Gasda*

Alexander Butler Prize for the best research paper by a first year graduate student in History *Awarded to Bethany Aram*

Mary Farrell Camerer Award for excellence in writing by a Writing Seminars undergraduate *Awarded to Benno Z. Weisberg*

Eugenio and Patricia Castillo Award in Economics to the best first or second year student *Awarded to Omer Alper*

Chemical Engineering Undergraduate Research Award for demonstrated contributions to research in Chemical Engineering *Awarded to Sai-Kit Tseng*

Civil Engineering Award for outstanding achievement by a senior in Civil Engineering Jointly Awarded to Amanda L Bartko Sarah E. Gasda James S. Coleman Award This award was established by the Department of Sociology in 1994 in honor of Dr. James S. Coleman, first chair of the department. The award is for outstanding academic achievement by a senior majoring in sociology and is presented at graduation. *Awarded to Laurel Clark*

Paul A.C. Cook Book Award from the Chemical Engineering Department To the outstanding sophomore or junior in chemical engineering *Awarded to Christina A. Olson*

The Robert George Gerstmyer Award for outstanding undergraduate achievement Jointly Awarded to Mili D. Ashar Gregory R. Procopio Isaac Weingrod

G. Stanley Hall Prize for outstanding achievement by an undergraduate in Psychology *Awarded to Katherine Choe*

The Max Hochschild Fund The prize is awarded annually to the undergraduate student in Economics who has shown great promise and proficiency in this field. *Awarded to Glen Taksler*

The Jacob H. Hollander Prize for excellence in writing by a Writing Seminars undergraduate *Awarded to Sara J. Hirschfeld*

The Three Arts Club of Homeland Award for excellence in writing by a Writing Seminars undergraduate *Awarded to Mark V. Lord*

Houghton-Mifflin Master Student Award In recognition of honorable mention in the national master student essay contest *Awarded to Michael J. Berka*

William H. Huggins Award For outstanding service and academic achievement in electrical and computer engineering by a junior *Awarded to Jerry D. Marzouk 97' Eli J. Glaser 98'* Richard J. Johns Award for outstanding academic achievement in Biomedical Engineering Jointly awarded to Paul A. DiCamillo Tang Ho Robert C. Susil

Adolf Katzenellenbogen Memorial Prize for outstanding work in Art History *Awarded to Kim E. Butler*

Donald E. Kerr Memorial Medal to the outstanding undergraduate major in Physics and Astronomy Jointly Awarded to Lauren Hsu Amanda C. Kirby

Arthur Kouguell Memorial Prize for the outstanding History concentrator in the academic year *Awarded to Drew Levy*

The Eugene Leake Award for outstanding achievement in the Homewood Arts Workshops Jointly awarded to Abigail Patner Kenjiro Tajima

Ernest M. Marks Award in recognition of excellence in instruction and research in Chemistry *Awarded to Christopher Cox*

Materials Science and Engineering Award for outstanding academic achievement by a graduating senior in Materials Science and Engineering *Awarded to Stella Hwang*

Mathematical Sciences Achievement Award for outstanding achievement by an undergraduate in Mathematical Sciences Jointly Awarded to Marc H. Coumeri Bradley T.Heim Noel J. Thomas

Mathematical Sciences Award for Excellence in Teaching for outstanding teaching performance by a student in the Mathematical Sciences Department during the year 1996 Awarded to Christopher G. Wagner The William D. McElroy Award for meritorious research conducted by an undergraduate in the biological sciences *Awarded to Tam Nguyen*

Microsoft Outstanding Senior Award Awarded to John F. Merryman

The Charles A. Miller Award for outstanding academic achievement by an undergraduate in Mechanical Engineering *Awarded to W. Jesse Arminger, IV*

David S. Olton Award for outstanding achievement in independent research by an undergraduate in Psychology *Awarded to Alexander Limkakeng*

Outstanding Double Major Award from the Department of Computer Science For outstanding achievement in combining diverse studies with computer science Jointly Awarded to Steven G. Crutchfield, Electrical and Computer Engineering and Computer Science

Outstanding Senior Award in Computer Science

To a senior for a demonstrated record of academic excellence, leadership, and service in computer science *Awarded to Russell T. Schwager*

Outstanding Undergraduate Award in Computer Science To an undergraduate for a demonstrated record of academic excellence, leadership, and service in computer science *Awarded to Michael J. Pekala*

Robert B. Pond, Sr. Achievement Awardto the graduating senior in Materials Science and Engineering who best exemplifies Professor Pond's commitment to scholarly and humane values *Awarded to Amnuaysak Chianpairot*

The Curt P. Richter Award in Behavioral Biology Research in recognition of outstanding achievement in the David S. Olton Behavioral Biology Program Jointly Awarded to Serena Cardillo Erich Grethel Sarah & Adolph Roseman Achievement Award in recognition of outstanding accomplishment in Chemistry Jointly Awarded to Yury Bukhman M. Christina White

Roulston Prize for outstanding achievement and excellence in German Jointly Awarded to Fritz A. Breithaupt Geoffrey A. Hale

Gerard H. Schlimm Award For exceptional accomplishment by a student in civil engineering *Awarded to Christopher D. Brown*

The Sonix Award in Immersion Ultrasonics This annual award was established in 1994 by Sonix, Inc. to be given to a student in the Materials Science & Engineering Department who conducts the most outstanding research project in the immersion ultrasonics field. *Awarded to Brian A. Milch*

Special Faculty Service Award To a non-major student who made outstanding contributions to the Department of Chemical Engineering *Awarded to Anil A. Dhople*

Special Award in Computer Science To a senior who was instrumental in organizing the Association for Computing Machinery Chapter at Johns Hopkins University *Awarded to Jeremy F. Rauch*

Julian C. Stanley Award For the undergraduate psychology major who most closely approximates Dr. Stanley's personal and professional standards of excellence *Awarded to Michelle Paraskewich*

The J.J. Sylvester Prize For outstanding achievement by a senior in Mathematics Jointly awarded to Brian Michael Hess Lauren Hsu

Tau Beta Pi Baltimore Engineering Alumni Chapter Scholarship *Awarded to Percy P. Lee* Tau Beta Pi Scholarship Award For a Tau Beta Phi undergraduate for outstanding academic achievement *Awarded to Caroline P. Chen*

Robert W. Tucker Award For the most distinguished senior thesis in International Studies *Awarded to Jessica Rozman*

Julius Turner Prize For the most distinguished senior thesis in Political Science *Awarded to David Weiner*

The John Boswell Whitehead Award For outstanding achievements by an undergraduate in the Department of Electrical and Computer Engineering *Awarded to Steven G. Crutchfield*

Loy Wilkinson Award For demonstrated record of academic excellence, leadership, and service in Chemical Engineering by a graduating senior *Awarded to Danielle E. Ortelli*

In The Peabody Conservatory of Music

American Bassoon Company Prize Awarded to Ellen Barnum

Clara Ascherfeld Award in accompanying *Awarded to Owen Lovell*

Martha and William Bill Memorial Prize in clarinet *Awarded to Karen Meranda*

The George Castelle Memorial Award in voice Jointly Awarded to Jennifer Blades Dae-San No Joo Won Rob

Charles M. Eaton Award in voice *Awarded to Carole Cornman*

Anita Erdman Award in opera Awarded to Ryan Dolan

Pauline Favin Memorial Award in piano Jointly Awarded to Joseph Satava Joseph Francavilla Sidney M. Friedberg Prize in chamber music Awarded to Erica Wise

Richard Franko Goldman Prize in performance *Awarded to Dan Yn*

Wallace and Kathleen Hankins Award in voice Awarded to Carleton Chambers

Lynn Taylor Hebden Prize in performance Awarded to Sang Jae Lee

Sidney Jensen Memorial Prize in clarinet Awarded to James Young

Britton Johnson Memorial Prize in flute Jointly Awarded to Catherine Hays Francis Tate

Josef Kaspar Prize in violin Awarded to Barrie Cooper

Rose Marie Milholland Award in piano Awarded to Jienn Jeanie Lee

Ada Arens Morawetz Award in composition Awarded to David Thomas

Olga Von Hartz Owens Memorial Prize in strings Awarded to Hugo Bollschweiler

Randolph S. Rothschild Award in composition Awarded to Cbristopher Matthew Burtner

Alice and Leary Taylor Prize in performance *Awarded to Daniel Brodney*

Zaidee T. Thomas Award in performance *Awarded to Natbaniel Mead*

J.C. Van Hulsteyn Award in violin Awarded to Lysiane Gravel-Lacombe

Annie Wentz Prize in accompanying Awarded to Mattbew Ganong

Frank D. Willis Memorial Prize in composition Awarded to Jonathan Lesbnoff George Woodhead Prize in voice, with emphasis on oratio or church music Jointly awarded to Jay Bitner, Soo Yun Chung, Ryan Dolan, Alok Kumar, Elaine Lachica, Jos Milton, Vladimir Sbvets

Sarah Stulman Zierler Prize in accompanying *Awarded to Ralitza Patcheva*

In The School Of Nursing

Emma Jones Beckwith Cullen Award in recognition of the highest standards of nursing practice and executive ability *Awarded to Cynthia Louise Levick*

Eleanor Wade Custer Award to a student who most successfully demonstrates initiative and creativity in improving the health of a community with sensitivity to one's fellow man. *Jointly Awarded to Mary Faltynski Michael Samson*

Betty Cuthbert Award To a student who demonstrates outstanding commitment and service to nursing and the University *Awarded to Panlette Anest*

Mary and Grainger Marburg Award In recognition of a student who consistently exhibits outstanding clinical nursing expertise *Awarded to Jessica Sullivan*

Robert G. Merrick Award To a student demonstrating outstanding leadership in the field of nursing *Awarded to Diane Brown*

Ruth Dale Ogilby Award In recognition of exceptional academic performance in the Master's program Jointly Awarded to Debbie Jean Baker Karyn Jean Brundige Nancy Granados

Nancy Granados Kevin Mallinson Joyce Maygers Blossom Wiedmeier The Johns Hopkins Alumni Association Award

Awarded to a student demonstrating expertise in professional nursing practice and patient centered health care delivery. *Awarded to Karyn Jean Brundige*

Edna Schoen Memorial Award To a student demonstrating excellence in clinical practice *Awarded to Cheryl De La Chadra*

Joan Sutton Award To a student demonstrating a strong dedication to professional nursing, clinical excellence, and interdisciplinary practice *Awarded to Carolyn Ross*

Academic Excellence Award To a student whose academic performance has been judged to be outstanding Jointly Awarded to Michael Frakes Ellen Striebel

Research Award

To a student demonstrating intellectual curiosity and creativity in nursing research *Awarded to Christina Chang*

The Church Home and Hospital Nursing Alumnae Award Recognizes a student who best exemplifies a humanistic approach to nursing while integrating the art, science and the spirit of nursing. Jointly Awarded to Kara Lacy Lora Santi

The Johns Hopkins Nurses' Alumni Association Award Recognizes a student whose leadership ability is combined with clinical competence and an inquiring mind *Awarded to Holly Villepiqne*

Sinai Nurses' Alumnae Association of Sinai Hospital, Inc. Recognizes a student who exhibits enthusiasm, compassion and a positive approach to problem solving in nursing Awarded to Melinda Porter

In the School of Continuing Studies

Delta Sigma Pi Scholarship Key In the Division of Business and Management for the highest average in the undergraduate programs *Awarded to Eliot Weinstock*

Edward J. Stegman, C.P.A., Memorial Award In the Division of Business and Management for excellence in the study of Administrative Science at the graduate level *Jointly Awarded to Traci L. Begole*

> William Geoffrey Carpenter Roland Conrad Fritz William Panl Gavin Tae Kynng Gil Christopher K. Morris Susan Telesca Christopher J. Theon

BLA Award

For outstanding undergraduate work in the liberal arts Jointly Awarded to Nancy Brown Anderson B. Jefferson Langmead

MLA Award For outstanding graduate project or thesis Jointly awarded to Carmel McCaffrey Christopher Quinn

In The School of Medicine

The Henry Strong Denison Scholarship The Henry Strong Denison Fund for Medical Research in memory of Henry Strong Denison, M.D., 1908, is used for the specific purpose of aiding in the training for research of young people deemed by the Medical Faculty to be especially gifted for a career in medical investigation. *Awarded to Peter Kim Wn - 1995-96*

The Franklin Paine Mall Prize in Anatomy The Franklin Paine Mall Prize in Anatomy established by Dr. Miley B. Weston, an alumnus of the School of Medicine, is given in the name of Franklin Paine Mall, the first professor of Anatomy in the School of Medicine. *Awarded to David Marcelo Sabatini 1990-91* The Student Research Award The Student Research Award is sponsored by the Association for Academic Surgery and recognizes outstanding research efforts by a senior medical student interested in a surgical career.

Awarded to Tuan Tuong Lam - 1996-97

The Sol Goldman Award

The Sol Goldman Award is given annually to a Johns Hopkins Medical Student who is recognized by the faculty of the Department of Medicine, Division of Geriatric Medicine and Gerontology for excellence in geriatrics and for exceptional sensitivity to older patients. This award is made possible by an endowment given by the family of Sol Goldman to perpetuate an interest in and commitment to geriatric medicine and gerontology among medical students.

Jointly Awarded to Grace Yin Jenq- 1996-97 Mona Zobdi Mofid- 1996-97

The Paul Ehrlich Awards

The Paul Ehrlich Awards were established to honor Dr. Paul Ehrlich with funding originally granted by Dr. Emmanuel Libman. The Awards, which recognize student research contributions, are presented each year at Young Investigators' Day.

The Paul Ehrlich Basic Science Award Awarded to Emily Hsiao-Yn Cheng - 1996-97

The Paul Ehrlich Medical Student Award Jointly Awarded to Ricbard Callis Eldon Anderson - 1996-97 Micbael Edward Matos - 1995-96

The Paul Ehrlich Graduate Student Award Awarded to Sean Taylor Prigge - 1996-97

Michael A. Shanoff Research Award The award is made annually to a student for significant research contribution in the medical sciences. The award is made possible by a bequest from the family and friends of the late Dr. Michael A. Shanoff, who earned his undergraduate degree and M.D. and Ph.D. degrees from Johns Hopkins University.

Awarded to Alex Yee-Chen Hnang - 1995-96 David Marcelo Sabatini - 1996-97 The David Israel Macht Memorial Prize The David Israel Macht Memorial Prize was established in 1983 by the family of Dr. Macht to commemorate the centenary of his birth. Dr. Macht was a member of the faculty of the Departments of Pharmacology and Medicine in the early part of this century and was a pioneer investigator in the field of opiate alkaloids. The prize is intended to recognize excellence in investigation by a student in the School of Medicine.

Jointly Awarded to Tae-Wook Chun - 1996-97 Stephen Michael Soisson -1996-97

The W. Barry Wood Student Research Prize

The W. Barry Wood Student Research Award recognizes present commitment and future promise in research. *Awarded to Tuan Tuong Lam - 1995-96*

CIBA Award for Outstanding Community Service

The CIBA Pharmaceutical Company makes a yearly award to that student in the second year of the School of Medicine who is judged by his or her classmates to have made the greatest contribution to our community.

Awarded to Carol Lynette Brown 1995-96

The Harry C. Saltzstein Prize for Medical Writing

This prize was established in 1990 by the family of Dr. Saltzstein, a 1914 graduate of The Johns Hopkins School of Medicine, to recognize his life long interest in medical writing. The award is given to that student who has exhibited excellence in medical writing as judged by a faculty committee. *Awarded to Risa Raquel Sargeant - 1994-95*

In The School of Hygiene and Public Health

Paul A. Harper Award to graduates to recognize both achievement and promise of contributions to the field of population *Jointly Awarded to Gretchen Antelman Robert William Davis*

John C. Hume Doctoral Award to a graduate for significant research in the Department of Health Policy and Management *Awarded to Amy Joan Davidoff*

John C. Hume Master of Public Health Award to a graduate for academic excellence and professional promise Awarded to Kami Kamal Kandola Joseph Craig Longenecker John Reed MacArthur Jamie Jennifer Perry

Cornelius W. Krusé Award To a graduating student for scholarly excellence in Environmental Health Sciences *Awarded to Youlin Qiao*

In The Paul H. Nitze School of Advanced International Studies

William C. Foster Award To a second year student for sound scholarship and a record of leadership and distinguished service to SAIS exemplary of the high qualities of integrity, loyalty and ability admired in Mr. Foster *Jointly Awarded to Russell Crandall Jamieson Davies Kristin Wise*

Matthew Siegel

Christian A. Herter Academic Award To the member of the second year class with the most outstanding record during the first year *Awarded to Carmen Aquerreta-Ferraz*

HONOR SOCIETIES

Phi Beta Kappa

Phi Beta Kappa is the nation's oldest and most prestigious undergraduates honors organization. To gain election students must have excelled in a broad array of undergraduate courses in the arts and sciences offered at one of the 249 colleges and universities in the United States that are sufficiently rigorous and intellectually challenging to shelter a Phi Beta Kappa chapter, which was founded at the College of William and Mary in 1776. The Hopkins chapter was founded in 1895. Students elected to Phi Beta Kappa wear a gold honor cord with their graduation regalia to signify this honor.

From the Junior Class in the Zanvyl Krieger School of Arts and Sciences

Kelly Jean Abbett Sujeet Surendra Acharva Sam Sang-Woo Ahn Rahul Jagdish Anand Justin Ashley Anderson Mathew Martin Augustine Martin Damien Burke Atish Dipankar Choudhury Thomas Brian Clark Eveline A. Hitti Chung-Ming Bernard Lee Sang Hyun Lee Tony Tachung Lee John George Lieb,II Catherine Louise Passaretti Michael Howard Roh Amit M. Saindane **Emily Sarah Schuster** Jesse Colin Watson Llyd Ewan Wells

From the Senior Class in the Zanvyl Krieger School of Arts and Sciences

Sona Lee Aggarwal Navneet Singh Ahluwalia

Nitin J. Anand Edward Malachi Behrens Ajay Kamal Bhatia William James Black Vincent Morrison Bohlinger Dominic J. Bonfiglio David Paul Bonnvay Elizabeth Clare Bowman Jennifer Eve Brandes Isaac Bronfeld Lawrence Edward Buterman Serena Cardillo Kirsten Sue Carlson Stephen Michael Carlson Marco Francesco Caruso Elizabeth Dean Challen Stacy Ryan Chance Grace Chen Katherine S. Choe Laurel Ann Clark Robert William Deichert, Jr. Tao Du Ionathan Forrest Ewell Christina Owens Eyster Derek James Fahnestock John Michael Filigenzi Leslie Anne Frieden Alex M. Greshman Denis Peter Gibbs Matthew Andrew Goldrick Jamie Michelle Goodwin Annie Sara Granatstein Erich Joseph Grethel Faris Hawit Bradley Thomas Heim Brian Michael Hess Sara Jeanne Hirschfeld Daniel Alan Hoit Roger Wei-Bar Hsiung Lauren Hsu Kimberley Anne Isbell Christina Marie Jacobsen Anne Sami Kanderian Joy Sunghee Kim Samuel Suk Kim Amanda C. Kirby Portia Ann Kreiger Correne Stephanie Kristiansen Anupa Narendra Laheri Leslie Suihang Lam Shawn Lan Katherine Langbein Long Nguyen Le

Kevin Chi-Keung Lee Serena D. Lei Drew Thomas Levy Alexander T. Limkakeng, Jr. John Andrew Litwinsku Gavin Michel Loughlin Samantha Leigh Marks Shari Alana Martin George Mathew, Jr. Patrick Eugene McCleskey Nadeve Menard Kyong-Ah Evelyn Min Michael-Alice Moga Joseph Morgan Reina Nakamura Parag Anand Nene Weekiat Ng Charles Minh Nguyen Jason Francis Orlando Boris Ovodenko Michelle A. Paraskewich Shreva Praduman Parikh Mayur Bipin Patel Abigail Jane Patner Ryan David Peterson Amy Lyn Priess Jennifer Lynn Pummell Noreen Fatima Oureshi Jennifer Marian Rolling Iessica Marie Rozman Adam Ian Rubin Maria Lenore Rudisill Christopher Sadeh Christopher David Sakal Leah Scheier Sarah Lynn Schuler Sophia Lenore Seekins Amanda Hope Sevrin Mehul R. Shah Marc Thomas Silhavy Christopher John Skoglund Nati Somekh Marni Joanne Soupcoff Alexandra Lynn Spessot Glen Barry Taksler George Thomas, Jr. Wei-Li Tjong Naoki Tsukamoto M. Reza Vagefi Edward Allen Vessel Claire Chiu Wang Anthony Shen-Yuan Wei David Jonathan Weiner

Michael Adam Wiesenfeld Adrianne Matte' Williams Michael Terry Wilson Amanda Marble Wonson Henry Stephen York

Elected in 1996

Darin Conrad Arita Devin Jeremy Balkcom Zachary Ryan Calo Shireen Denise Donaldson Zareen Mehreen Farukhi Bradley James Fiorenzo Michael Gati Gaies Nancy Elizabeth Hall Anna Lee Hewko Matthew Wook Hwang Adriana Izquierdo Alexander Kuo Christine Marie Lovly Andrea R. Sachs Yi Shen Yang Sun Arthur Tsai Tony Suchai Wanich

Elected in 1995

Suman Lata Sood Juliette C. Wells

From the School of Medicine

Mei-Yu Chen Christos Constantinidis Eric Thomas Fung Tzumin Lee Lynda Jun-San Yang

From the School of Hygiene and Public Health

Dominic Esposito Jiang He Nora Ann Jacobson Seamus O'Reilly Joseph Anthony Tangrea

Tau Beta Pi National Engineering Honor Society

From the Junior Class in the G.W.C. Whiting School of Engineering

Manan Atit William Armiger Devin Balkcom David Breau Caroline Chen Dhiren Dave Christine Esber Puneet Gupta **Bart Hendriks** Sae Bin Jung David Kao Thanawat Keereepart Percy Lee Robert Mittendorf Matthew Noll Jay Pathmanathan Surat Phonsombat Michael Prados Gregory Procopio Ankoor Shah Isaac Weingrod Joseph Wu

From the Senior Class in the G.W.C. Whiting School of Engineering

Elected in 1995-96

Jennifer Anderson Mili Ashar Marc Coumeri Steven Crutchfield Paul DiCamillo John Fang Steven Kamminski Leo Kim Christopher Koh Jerry Marzouk Koonlachat Meesublak Ionas Mendelsohn Anthony Monaco Damien Nevoret Nicole Perry Christopher Rinehart Lawrence Rosenberg Robert Susil Gowrihar Thiayanathan **Emil Thattassery** Noel Thomas

Ken Tzeng George Wang Christopher You

Elected in 1996-97

Amanda Bartko Michael Bibighaus Mark Chang Steven Chiang Anil Dhople Seth Feldman Sarah Gasda Mary Gorschboth Paul Halczenko Mark Kalman Joanna Lee Jeremy Lubkin Douglas Mink **Dmitriy Petlyuk** Irfan Qureshi Parag Shah Tessa Sundaram Kenjiro Tajima Tracy Vogrin Adam Wos

Alpha Omega Alpha Honor Medical Society

The Alpha Chapter of Maryland was established at The Johns Hopkins University School of Medicine in 1906. Medical students with outstanding records are elected to membership in their senior year. The following members of the graduating class have been elected to membership in Alpha Omega Alpha:

Richard Callis Eldon Anderson Paul Ryland Brakeman Lynne Christine Curry Conrad Leon Epting N. Joan Glavan Susan Shih Huang William Wallace LeCates Stacey Bucholtz Leibowitz Mark William Manoso Kimberly Anne Moore Michael James Moore Tamara Suzanne Newman Frances Willa Reis Adam Todd Ross Amer Farman Samdani **Risa Raquel Sargeant**

Alison Irwin Swift Loren David Walensky Darin Lee Weyhrich

Delta Omega National Public Health Honor Society

Gretchen Antelman Mary Allison Barlow-Bova Iames B. Bender Allison Ilene Better Amelia Joleen Birney Meija Lucia Blok Susan Bradlev Gale R. Burstein Parul Christian David H. Chung Amy Joan Davidoff Gregory Bruce Diette Anita Rashmi Dixit Barbara A. Ellis Anne Elizabeth Esposito Dominic Esposito David S. Friedman Marshall Jay Glesby Rachna Gupta H. Holly Hackman Jennifer Ann Hariss Robert Charles Harris Giraldo Jordan Robert Herget Kami Kandola Susan Katz Barbara M. H. Kerstiëns Michelle Sandra Kitchman Wenchi Liang Jennifer Kuey Lin Joseph Craig Longenecker Eric Thomas Lund Barbara Suzanne Lyons John Reed MacArthur Ann Therese MacIntyre Jeanne McCauley Donna Hubbard McCree Michael Anthony McGinley Nancy E. Nachbar Kathleen A. O'Connor Maureen A. O'Neill Colin Ohrt Cindy L. Palace Sybil B. Pentsil Beth Ann Phillips Linda Schechterle Podosek Malla Rao **Joanne Love Rhoads** Robert Walter Scherpbier Amy Lise Schiffman

Valerie Jean Sedivy Alyson Kay Schupe John Young Song Joyce Shao Fen T'ang Happy Kuy-Lok Tan Andrew Luci Thorne-Lyman Franciscus J. W. Timmermans Janet Molzan Turan Wesley Anton Winn Leslie Ellen Wolf Tien Yin Wong

Sigma Theta Tau International Honor Society of Nursing

Christy Belliveau Diane Brown Susan Buckley Joni Buechler Michelle Clark Susan Clime M. Coggins Cheryl De La Cuadra Andrea De Sanctis Sarah Deacon Erin Dettmer Michelle Doran Mary Faltynski Erin Finley Jeanne Florance Michael Frakes Virginia Gonski Jamie Greenberg Alexandra Greenlee Wendy Greenwood Lisa Grimes Marlo Hardy Jill Hessenauer Helen Hui-Chou Shawna Hutchins Robin Hyde Maeve Juran Amy Kayler Christine Kenlan Marcy Kenndy Melinda Kiely Margaret Kildee Elizabeth Kosmas Kara Lacy Kimberly Legg Cynthia Levick Elizabeth Mailer Jennifer M. Mann Iennifer D. Mann Laurie Masi

Gloria Maskell Karen McCamant Gina McDaniel Megan McLean Teresa Messler May Lin Ng Melinda Porter Anne Putnoky Naomi Reid Carolyn Ross Lora Santi Anthony Saucier Mary Sinden Ellen Striebel Cathie Stutler Jessica Sullivan Karen Swanson Susan Dale Tannenbaum Suzanne Tershak Melanie Trapp Kristen Turner Lisa Uncles Lora Van Der Linde Holly Villepique Susan Wallace Paula Webb Carol Webber Linda White

Graduate Students

Jo Alderman Mary Kay Alford Theresa Angel Judith Ascenzi Marian Batts Cheryl Baugham-Durant Charlene Baumgardner Ann Beezley Loraine Black Mary Blanchard Ellsworth Boyle Sherilyn Brinkley Kathleen Burks Alice Cahill Sara Claussen Lora Clawson Karin Coyne Butch Decastro Carol Declue Lauren Dome Valerie Elliott Anna Fisher Christine Garner Patricia Gispert Valerie Griffith

Deborah Holtz Faith Howarth Frances Humphrey Susan Immelt Martina Lavrisha Mary Kate Lears Ta Ya Lee Denise Longoschoeberlein Kathleen Macleod Tonja Marell Joyce Maygers **Regina** McGuire Keith McIntyre Robert Napper, Jr. Suzanne Patterson Carol Pavne Karen Plassnig Jennifer Poffenberger Anita Reedy Michael Relf Carey Robeson Katherine Rossiter Sharon Rothinan Patricia Sauter Janet Shimko Janice Skinner Ruth Smith Mary Stakem Kimberly Sweitzer Kimberly Vaughn Robin Wantz-Flanders Mary Tara Ward

Honor Societies for the School of Continuing Studies

Chi Sigma Iota

Chi Sigma Iota is an international counseling, academic, and professional honor society, which was established to promote and recognize scholarship, research, professionalism, and high attainment in pursuit of academic and counseling excellence. Established at the University in 1985, the Lambda Chapter is open to students enrolled in graduate degree counseling programs who maintain a grade point average of 3.5 or higher. Membership is open to students, faculty, alumni, and professional counselors.

The following members of the graduating class are members of Chi Sigma Iota:

Daphne Lavone Blick Yvonne Watties Brown Stephen Christopher Byrnes Lynda F. Carver Faith W. Culp Karen Anne Dorsett Alison Raye Elie Meredith Gardner Victoria Ann Gilliam Adrienne Blair Goslee Gregory Stephen Hood Merrily Creznic Jones Robin Yvette Kane Patricia Marie Kennedy Harry Louis Legum Eileen Abraıns Martini Leah Rachel Namenson Patricia E. Piper Deborah Schrader Saperstein Loretta Anne Schulz Jayne Walker Elfleta Walton Charles Ridgely White

Delta Sigma Pi

The Delta Sigma Pi, Chi Chapter was established at the University in 1922 to foster the study of business, to encourage scholarship and the association of students for their mutual advancement by research and practice, to promote closer affiliation between the commercial world and students of commerce, and to further a high standard of commercial ethics and culture and the civic and commercial welfare of the community. Students in the Division of **Business and Management** who meet the national standards of admission may be invited to become members.

The follow members of the graduating class are members of Delta Sigma Pi:

Christine Renee Grieve

Frederick Charles Hines Montressa Washington Robinson

Pi Lambda Theta

Pi Lambda Theta is a national honor and professional association in education which was organized in 1910. The Chi Chapter is one of approximately 100 college and field chapters concerned with the improvement of education. Students in education are eligible for membership, and a small number are selected each year on the basis of distinction in scholarship and evidence of professional leadership.

The following member of the graduating class is a member of Pi Lambda Theta:

Jacqueline Margaret Lilar Almond

Phi Delta Kappa

Phi Delta Kappa is a professional fraternity for men and women in education. The Johns Hopkins Chapter, organized in 1932, is composed of advanced students and alumni. The chapter elects students annually on the basis of scholarly attainment and promise of educational leadership.

The following members of the graduating class are members of Phi Delta Kappa:

Jacqueline Margaret Lilar Almond James DeLay Anderson Daphne Lavone Blick Harold Earl Gaskins David Alexander Urias Eugie Tindal Watkins

HONORS

General University Honors

General University Honors were determined at the end of March, 1997, for students who had received a cumulative Johns Hopkins University G.P.A. of 3.5 or higher. Students earning this honor at the end of spring, 1997 semester will have that notation placed on their final transcripts.

Baccalaureate Candidates in The Zanvyl Krieger School of Arts and Sciences Graduating with General Honors

Sona L. Aggarwal Navneet S. Ahluwalia Frances Teresa Allocco Nitin Jagdish Anand Darin Conrad Arita Suzanne Evelyn Ashley Edward Malachi Behrens Christopher Robert Black William James Black Vincent Morrison Bohlinger Dominic J. Bonfiglio David Paul Bonnyay Elizabeth Clare Bowman Jennifer Eve Brandes Isaac Bronfeld Lawrence Edward Buterman Zachary Ryan Calo Karen Ann Canisius Serena Cardillo Kirsten Sue Carlson Stephen Michael Carlson Dana Carluccio Marco Francesco Caruso Elizabeth Dean Challen Stacey Ryan Chance Grace L. Chen Katherine Sooah Choe Laurel Ann Clark Emmanuelle Marie Clerisme Eileen Mary Cunningham Daniel J. Dalnekoff Alan G DeGeorge Robert William Deichert, Jr.

Shireen Denise Donaldson Tao Du Jonathan F. Ewell Christina Owens Eyster Derek James Fahnestock Zareen Mehreen Farukhi Daniel Evan Feinberg Robert Joseph Fernandez John Michael Filigenzi Bradley James Fiorenzo Leslie Anne Frieden Michael Gati Gaies Stephanic Karen Galloway Barbara Allen Geren Alex M. Gershman Denis Peter James Gibbs Matthew Andrew Goldrick Tamas Adam Gonda Jamie Michelle Goodwin Annie Sara Granatstein Geoffrey D. Gray Joshua M. Greenberg Erich Joseph Grethel Nancy Elizabeth Hall Everett Lance Hamner Faris Ibrahim Hawit Audrey Wolcott Hawkins Bradley Thomas Heim **Brian** Michael Hess Sara Jeanne Hirschfeld Daniel Alan Hoit Roger Weibar Hsiung Lauren L. Hsu Jack Jen-Chieh Hwang Matthew Wook Hwang Kimberley Anne Isbell Christina Marie Jacobsen Danielle Marie Kamensky Anne Sami Kanderian Young Wao Kang Elizabeth M. Kim Joy Sunghee Kim Peter Shinhyung Kim Samuel Suk Kim Thomas Sung-Hoon Kim Amanda C. Kirby Daniel J. Kirchner Jennifer Louise Kloss **Emily Koumeli** Portia Ann Kreiger Correne Stephanie Kristiansen Alexander Kuo

Lauren Michelle La Grega Anupa Narendra Laheri Leslie Suihang Lam Shawn Lan Katherine Michele Langbein Long Nguyen Le David Sungpil Lee Jiwon Esther Lee Kevin C. Lee Serena D. Lei Drew Thomas Levy Alexander Tan Limkakeng, Jr. John A. Litwinski Kimberly Ellen Liu Jonathan Brent Lo Mindy S. Lo Gavin Michael Loughlin Christine Marie Lovly Kelly Ann Lowe Samantha Leigh Marks Shari Alana Martin George Mathew, Jr. Patrick Eugene McCleskey Nadève Ménard Laura Maureen Mielcarek Kyong-Ah Evelyn Min Michael-Alice Moga Avinash Lalith Mohan Tatiana Mollazadeh Joseph N. Morgan Dawn Josephine Nafus Reina Nakamura Parag Nene Weekiat Ng Amelia Ai Mei Ngoh Charles Minh Nguyen Iason F. Orlando Boris Ovodenko Michelle Angela Paraskewich Shreya Praduman Parikh James Jonghyun Park Mayur Bipin Patel Robert Kaizad Patel Abigail Jane Patner Ryan David Peterson Katherine Durkish Prescott Amy Lynn Priess Jennifer Lynn Pummell Noreen Fatima Qureshi Jennifer M. Rolling Jessica Marie Rozman Adam Ian Rubin

Maria Lenore Rudisill Robyn Lynn Runge Andrea Robin Sachs Christopher Sadeh Christopher David Sakal Asaad Hani Samra Leah Scheier Sarah Lynn Schuler Sophia Lenore Seekins Amanda Hope Sevrin Mehul R. Shah Yi Shen Marc Thomas Silhavy Donna Dan Situ Christopher John Skoglund Salil Soman Nati Somekh Suman Lata Sood Marni Joanne Soupcoff Alexandra Lynn Spessot Yang Sun Priya Darsini Swamy Glen Barry Taksler George Thomas Peter David Tillinghast Wei-Li Francis Xavier Tjong Milla J. Tonkonogy Monica Tremblay Arthur Tsai Alice K. Tsao Naoki Tsukamoto M.Reza Vagefi Edward Allen Vessel Claire Chiu Wang Susan Jene Wang Anthony Shen-Yuan Wei David Jonathan Weiner Elhav Weinstein Benno Weisberg Juliette C. Wells John Bauer Whitlow Michael Adam Wiesenfeld Adrianne Matté Williams Keely Dawn Wilson Michael Terry Wilson Amanda Marble Wonson Eugene J. Yoon Henry Stephen York

Baccalanreate Candidates in The G.W.C. Whiting School of Engineering Graduating with General Honors

Jennifer Lynne Anderson Mili D. Ashar Amanda Lynn Bartko Michael R. Bibighaus Stephen Brian Chiang Marc Howard Coumeri Steven Gregory Crutchfield Aleksandr B. Deryugin Anil Arvind Dhople Paul Allen DiCamillo John Ping-Chung Fang Seth David Feldman Sarah Eileen Gasda Jason Lee Groth Paul William Halczenko Shelley-Ann Marie Ho Stella Joan Hwang Mark Kalman Stephen Tadeusze Kaminski Richard J. Kang Leo Am Kim Christopher M. Koh Lorraine F. Krupa Joanna Su Jin Lee Jerry Daniel Marzouk Koonlachat Meesublak Ionas Daniel Mendelsohn John F. Merryman Brian A. Milch Douglas William Mink Anthony J. Monaco Damien C. Névoret Howard Hao Ouyang Dmitriy L. Petlyuk Nicole Elizabeth Petty Norazhar Abdul-Rahman Kenneth James Rieger Christopher Steven Rinehart Scott William Ryan Parag Kirit Shah Tessa Alfonsaamary Sundaram Robert Charles Susil Gowriharan Thaiyananthan Kenjiro Tajima Noel Joseph Thomas Ken Kang-ping Tzeng Tracy Marie Vogrin Tak-Cheung Davidson Wan George Cho-Ching Wang

Adam Francis Wos Evan Abraham Zamir

Candidates in the Part-Time Programs in Engineering and Applied Science

Dennis Albaijes Chiung-Hua Bai Philip Anthony Balles Kevin Michael Ballou Shouvik Roy Bardhan William James Barnds Edward Glenn Bauer Richard Donald Beers Brian I. Beller David A. Bement Henry Charles Boshane Ralph Tzion Brenner David L. Brown Bliss G. Carkuff Walter Leonard Carper Mary Francis W. Christ Paul Richard Ciaravella Alan Patrick Cudmore Edward Stanley Cybert David Michael Dailey Thomas John DeBoissiere Michael Guy Dennis Robert James Densock Laura Lynn Downey Glenn W. Dudley Thomas Carl Engel Stephen Henry Eppig Linda Jeanne Esker Frederick Ray Facemire Doron Daniel Fields Brian A. Franz Bruce Stuart Freedman Shawn Michael Funk John R. Gasch Ray E. Gibbs Jay Scott Gilbertson Brian Lee Gilbey Ana Maria Gras Michael Allen Hamilton Rai Handa Rebecca Himmelmann Harding Jon Eric Hastings Peter Eugende Hessler Brian Keith Hill Mark Stewart Horn Mark Stewart Hourahan **Ray Martin Hughes**

Kim Anthony Ippolito Kim Anthony Jahnige Ronald Lee Iones John Paul Kubala Bridget Leahy Michael John Lee Michael John Leech Robert Ernest Lehman Vishwas Lele Daniel Joseph Levine Teresa Elaine Lustig Terra Lynn Lyons Russell Edward Marsh Thomas Lee McCarriar Errol Fred Mednik Sushil D. Mehta Daniel Bryan Minarik Klavton Lee Monroe Robert Alan Neidecker John Nestoriak Byron Joseph Nikolaidis Duane Alden Orth Randall William Pack Mark Kevin Patrick Lizy Paul Daniel Stephen Pazdersky Eric Stephen Pelli Khanh Duy Pham Luan Robert Quan William Michael Roberts Dale Edward Robinson Robbin E. Roddewig Laurel Suzanne Samuelson Christopher Grant Scannell Mark S. Schneider Yau-Ming Shen Maria Y. Shen Ernest Lee Staples Ivan G. Stepanov Michael Paul Tabellion Richard Bradley Tatem Constance Louise Taylor Tuan M. Tran Charles David Tunnell Peter Francis Van Nuys Julie A. Varner John David Vrankovich Kenneth M. Walker James Lon Wetherbee Jeffrey Brent Williams William F. Wilson Donald D. Woodruff Genevieve Scherer Yager Mayra Zayas

Baccalamreate Candidates in The Zanvyl Krieger School of Arts and Sciences Graduating with Departmental Honors

* Please note that some students are not listed as receiving Departmental Honors because this program had to go to press before receiving notification from the departments

Sona L. Aggarwal Nitin Jagdish Anand Traci Irene Beach David Franklin Bell Dominic J. Bonfiglio Brian J. Boyle **Jennifer** Eve Brandes Isaac Bronfeld Zachary Ryan Calo Serena Cardillo Robert Colin Carter Elizabeth Dean Challen Grace L. Chen Laurel Clark Megan A. Costello Eileen Mary Cunningham Harpreet Kaur Dang Robert William Deichert, Jr. Iames Jude DeRose, III Robert Joseph Fernandez Lara Brett Fisher Brian Isidor Glucroft Matthew Andrew Goldrick Elisabeth Groome Gordon Joshua M. Greenberg Erich Joseph Grethel John Peter Grimes Gregory Gordon Haas Nancy Elizabeth Hall Christopher Mark Helper **Brian Michael Hess** Keri Lynn Hicks Sara Jeanne Hirschfeld Lauren L. Hsu Jesse Thomas Jacob Rebecca D. Justice Anne Sami Kanderian Joy Sunghee Kim Samuel Suk Kim Amanda C. Kirby Daniel J. Kirchner Correne Stephanie Kristiansen

Manfred Christopher Krueger Kevin Chi-Keung Lee Drew Thomas Levy Alexander Tan Limkakeng, Jr. Gavin Michael Loughlin Christine Marie Lovly Shari Alana Martin Nadeve Menard Laura Maureen Mielcarek Michael-Alice Moga Daniel Mostovoy Julia Caterina Mujal Matthew Lion Nemeth Sateesh Kumar Nori Banu Ozkazanc Shreya Praduman Parikh Mayur Bipin Patel Abigail Jane Patner Jennifer M. Rolling Jessica Marie Rozman Marc Thomas Silhavy Marni Joanne Soupcoff Desiree Ann Sumilang Yang Sun Priya Swamy Milla Jay Tonkonogy Alice K. Tsao Erev Emmanuel Tubb M. Reza Vagefi Claire Chiu Wang Anthony Shen-Yuan Wei David Jonathan Weiner Elhav Weinstein Benno Weisberg Michael Adam Wiesenfeld Keely Dawn Wilson Michael Terry Wilson

Graduates from the Humanistic Studies Honor Program

Dominic J. Bonfiglio Elizabeth Clare Bowman Kirsten Sue Carlson Stephen Michael Carlson Faris Ibrahim Hawit Noreen Fatima Qureshi Juliette C. Wells

Baccalaureate Candidates in The G.W.C. Whiting School of Eugineering Gradnating with Departmental Honors

Jennifer Anderson Mili D. Ashar Amanda Lynn Bartko Michael Bibighaus Mark Linberg Chang Stephen Chiang Marc Howard Coumeri Steven Gregory Crutchfield Anil Dhople Paul DiCamillo John Fang Seth Feldman Jay Patrick Fennelly Matthew Stephen Friedman Sarah Eileen Gasda Jason Lee Groth Paul Halczenko Shelley-Ann Ho Stella Joan Hwang Mark Kalman Stephen Tadeusz Kaminski Leo Kim Christopher M. Koh Clayton Carl Kossmeyer Lorraine F. Krupa Joanna Lee Kito Donnelly Mann Jerry Daniel Marzouk Jonas Mendelsohn John F. Merryman Brian A.Milch Douglas William Mink Damien C. Nevoret Howard Hao Ouyang Dmitrey Petlyuk Nicole Petty Christopher Barrett Pond Norazhar Abdul Rahman Jeremy F. Rauch Kenneth Reiger Christopher Rinehart Lawrence Rosenberg Scott William Ryan

Theo Ezell Schlossnagle Russell Todd Schwager Ankoor Shah Parag Shah Tessa Sundaram Robert Susil Kenjiro Tajima Gowrihar Thaiyananthan Noel Joseph Thomas Ken Kong-ping Tzeng Tracey Vogrin Suzanne Lin Wallace Tak-Cheung Davidson Wan George Wang Adam Wos Evan Zamir

Baccalanreate Candidates in The School of Continuing Studies Graduating with Honors

Lisa Hunter Alfriend Nancy Brown Anderson Alicia Christy Bannon Georgean C. Finnerty Chervl Lynn Glab Chandler Emil Gotschlich David Marc Harris Jan Ingles Sharon Katherine Jenkins B. Jefferson Langmead Denise L. Pfiel Michelle D. Pytko Carole Lynn Rest Jennifer Charlotte Simpson Sandra Taylor Eliot Weinstock

CANDIDATES FOR DEGREES

Bachelors of Science in Biomedical Engineering in The G.W.C. Whiting School of Engineering

Jennifer Lynne Anderson Christopher B. Atencio Edward D. Auyang Nabeel Basem Azar James Duncan Beaty Steven Haskell Bekhor Maneesh Ashok Bhide William Jeremy Blake Dante G. Briones Donette W. Campbell Albert Pernard Capati Blake Robert Carlson Stephen Brian Chiang Peter Pa-en Chu Claudia Wilhelmina Covell Rooshin Bhadrik Dalal Sergio Mauricio de del Castillo Anil Arvind Dhople Paul Allen DiCamillo John Ping-Chung Fang Seth David Feldman Julia Catherine Fox Thomas Joseph Fraites, Jr. Christopher Vinson Gemmiti Jonathan Lewis Hansen Shellev-Ann Marie Ho Allen Alexander Holmes George Pen-Wen Huang Richard Louis Hudachek Devin Garrett Johns Richard J. Kang Aaron Chiyoon Kim Leo Am Kim Gregory Brian Kruse Ricky Chi-nien Kue Joanna Su Jin Lee Michael Hun Lee Miles B. Levin Derek Sean Lewis Victor C. Lin Katherine BoYook Louie Steven Ning Lu Jeremy Michael Lutz Chad Ying Mao Anatoly Matlis Paul Arie Melamud Jonas Daniel Mendelsohn Cyrus Jehangir Mistry Amy Katherine Moats

Aaron Wilhelm Mulivor Giridhar Nagendra Murching Robert Damien Musto Minh Uyen Nguyen Vladislav Mitchel Oborin Davenand Jason Parsram Shayn McDonald Peirce Dmitziy L. Petlyuk Nicole Elizabeth Petty Charles Philip Racsa Kenneth James Rieger Christopher Steven Rinehart Anthony Philip Scinicariello Ankoor S. Shah Nimesh Sudhir Shah Parag Kirit Shah Raj J. Shah Ronald Vincent Sonntag David Stein Tessa Alfonsaamary Sundaram Robert Charles Susil Zsolt Szabo Gowriharan Thaiyananthan Mark Jonathan Travers Stanley Tsai Tracy Marie Vogrin George Cho-Ching Wang Gregory Shin-Lu Wang Tamica Evelyn White Jung Yup Woo Katherine L. Worden Adam Francis Wos Charles Hyuk Yang Christopher Jamyn You Evan Abraham Zamir

Bachelors of Science in Chemical Engineering in The G.W.C. Whiting School of Engineering

Scott Peter Bernstein Jeremy Paul Cagle Kerrie Lee Cathcart Frank Ting-yu Chen Yanette Nyree Cunningham Philip James Curran Jay Patrick Fennelly Matthew Stephen Friedman Barry Carl Garner David J. Goodwin Kevin Eric Groppe Jason Lee Groth Francine Lynn Hewes Joseph Nathaniel Ismert Quincy Jerome Jones Stephen Tadeusz Kaminski Loryn Rachel Keating-Just Christopher M. Koh Alan Clayton Kramer Matthew Jude Levesque Michael Anthony Mastro Brad Franja McKlendin Douglas William Mink Hazura Mohamedsood Damien C. Névoret Danielle Elise Ortelli Karen Lucy Pak Aime Põldmäe Peter Joshua Schauer Kevin Christopher Seavey Christine Anne Switzer

Bachelors of Science in Civil Engineering in The G.W.C. Whiting School of Engineering

Amanda Lynn Bartko Christopher Dennis Brown John Matthew Brush Sarah Eileen Gasda Thomas Joseph Gillard Natasha Alice Klenke Lorraine F. Krupa Daniel James Lago Kathy Se Jin Lee Philip Lee McGinnis Joseph Andrew Pastore Mark Joseph Rothbauer Neil Ericsen Sander Kimberly Marie Slinski Daniel J. Turner

Bachelor of Science in Computer Engineering in The G.W.C. Whiting School of Engineering

Daniel Cronin

Bachelors of Science in Computer Science in The G.W.C. Whiting School of Engineering

George David Barnett Ryan Philip Bobko Jeremy Aaron Brown Jerry CY Chan Caleb Seth Ciampaglia Geoffrey John Corb Joshua Adam Danish Aleksandr B. Dervugin John Gilbert Kloss, H Clayton Carl Kossmeyer Jonathan Adam Lazarus Rahul Rimmy Malhotra John F. Merryman Jeremy F. Rauch Kevin Matthew Ruse Theo Schlossnagle Russell Todd Schwager Alexander M. Shiferman Boris Statnikov Yao-Hung Tsai Jonathan Alden Wells Ivan L. Yeung

Bachelors of Science in Electrical Engineering in The G.W.C. Whiting School of Engineering

Sayed Yoanna Allen Brett Austin Balmer Mark Linberg Chang David-Michael Chidiebele Chuke John Marshall Clark Steven Gregory Crutchfield Fabian Mahdi Dilaimy Gina Suzanne Flynn Toby Harlan Flynn David Bedford Gill Mary Frances Gorschboth Derya Efe Güler Christopher Mark Hocker Mark Kalman Andrew Gabriel Leone Tony I-Pin Lin Jerry Daniel Marzouk Koonlachat Meesublak

William Michael Milligan Edward John Moeller Fekade Selassie Sergew Rajeev Sam Sigamoney Anthony S. Snead Mark Edward Tully Ken Kang-ping Tzeng Richard Lloyd Wakefield, II Tak-Cheung Davidson Wan Mohd Farid Zainalabidin

Bachelors of Science in Materials Science and Engineering in The G.W.C. Whiting School of Engineering

Amnuaysak Chianpairot Stella Joan Hwang Martha McCann Brian A. Milch Scott William Ryan Suzanne Lin Wallace Dennis I. Wu

Bachelors of Science in Mathematical Sciences in G.W.C. Whiting School of Engineering

Marc Howard Coumeri Mara Rachel Liberman Cheryl Lynn Promise Noel Joseph Thomas Erika Erin Ward

Bachelors of Science in Mechanical Engineering in The G.W.C. Whiting School of Engineering

Norazhar Abdul Rahman Salem Ali Al-Ali Richard Aloysius Ambrose Adom Matthew Asadourian Mili D. Ashar David Seung Hyun Chyung Keith Bradford Critzer Victor Gabriel Epand Geoffrey A. Goodman Maceo Levaughn Jackson Michael Patrick Leese Keith Joseph Martin Angelo Leigh Maurelli Joshua David Nisenbaum Howard Hao Ouyang PyongHun David Pak Paul Frederick Qualkenbush John Patrick Solan Kenjiro Tajima

Bachelors of Arts in The G.W.C. Whiting School of Engineering

Paul M. Han Andy Patrick Roberts

Bachelors of Arts in Biomedical Engineering in The G.W.C. Whiting School of Engineering

Michael R. Bibighaus Paul William Halczenko

Bachelors of Arts in Computer Science in The G.W.C. Whiting School of Engineering

Arthur R. Brady Remco K. Chang Katherine R. Gagnon Roy Wei-Fan Hsu Minsun Ji Kito Donnelly Mann Eric Michael Osterweil Christopher Barrett Pond Alexander Michael Swietlicki

Bachelors of Civil Engineering in The G.W.C. Whiting School of Engineering

Jerry Edwin Greene

Bachelors of Electrical Engineering in The G.W.C. Whiting School of Engineering

Bliss G. Carkhuff Gerald Michael Fuller Christopher J. Harvey Gregory Mitchell Liposchak Vincent Lee Staab John C. Turcotte Michael Allen Zagami

Bachelors of Mechanical Engineering in The G.W.C. Whiting School of Engineering

W. Glenn Bixler Brian McKinnly Miller

Bachelors of Arts in The Zanvyl Krieger School of Arts and Sciences

Zeena Judith Abdi Bradford T. Adams Roya Afshar-Mohajer Sona L. Aggarwal Navneet S. Ahluwalia Claudia Alaimo Hans Philip Aldenhoff Miran Ali Frances Theresa Allocco Robin Ellen Altaras Ashley Lee Alward Nitin Jagdish Anand Joseph August Annicchiarico Darin Conrad Arita Pavan Raj Arora Suzanne Evelyn Ashley Eric Shen-Wing Au Emily Carina Pfieffer Baillieul Vanessa Michael Bakert Nader Anthony Bakhos Omar Bakht Margaret Ellen Balfour Suji Elizabeth Bang Divya Kumar Bappanad David Joseph Basham, III Christopher Jackson Battle Cecilia Catherine Beach Traci Irene Beach Aron James Beatty

Edward Malachi Behrens Julie Heather Bekier David Franklin Bell Valerie Ann Benigno Karen Nancy Benjamin Aaron Jason Bernstein Anthony Tullio Betta Aaron Colby Bevington Madhukar Bhoomireddi Christopher Robert Black William James Black Lisa Ann Blaydes Liana Blechinger Arnold Paul Bogis Vincent Morrison Bohlinger Raju Bohra Dominic J. Bonfiglio David Paul Bonnyay Christopher Barton Boone Aric Henderson Bopp Louis James Boston, Jr. Andrew Bernard Bourne Elizabeth Clare Bowman Brian J. Boyle Michèle Allison Maria Bradford Tracey L. Brady Jennifer Eve Brandes Christopher John Brathwaite Justin David Braun Rebekkah Cain Bravo Heidi Christin Brescher Thomas James Edward Brewster Bergina LaMonda Brickhouse Charles Edward Britton, IV Jason Matthew Brocks Isaac Bronfeld Aden Marsh Bronstein Piotr Lukasz Buda Burton Anthony Bullard Daniel S. Burnstein Lawrence Edward Buterman Zachary Ryan Calo Karen Ann Canisius David Joseph Capece Jacqueline Elena Cardillo Serena Cardillo Kirsten Sue Carlson Nathan Erick Carlson Stephen Michael Carlson Dana Carluccio Robert Colin Carter Marco Francesco Caruso Francis Xavier Celis Elizabeth Dean Challen

Elizabeth Marie Champ Josephine Ying-Pui Chan Stacy Ryan Chance Arnold Brandt Chee Grace L. Chen Steve Hsing-Yu Chen Liat Jeanne Cherkes Edward Chin Katherine Sooah Choe Grace JungEun Choi Kel Ward Christensen Amanda Stacia Chua Camille Theresa Chung Laurel Ann Clark Diedré Eileen Clemetson Emmanuelle Marie Clerisme Stuart Harland Clutterbuck Harik Anthony Cofer Alexandra Natalie Cohen Timothy Andrew Colbert Sonja Irene Contin William Bryant Cornett Marlo Ann Corrao Megan A. Costello Melinda Jeanine Cox Kerry Megan Cross Joseph Francis Croughwell Samuel Richard Crowley Eileen Mary Cunningham Brian Edward Curran Tina Marie D'Amato Daniel J. Dalnekoff Harpreet Kaur Dang Brett Victor Daniel Garin Sarkis Danielian Dana Danine Dantzler Michael Quentin Davis Brendan Michael De Marco Alyssa Meredith Defrin Alan G. DeGeorge Richard Elliot DeGroot Robert William Deichert, Jr. William Throm Delfvett RJames Jude DeRose, III **Richard Robert DeWitt** Aimée Elena Di Domenico Helen Ding Douglas E. DiYanni Shireen Denise Donaldson John Christopher Donovan Kathryn Mary Dowd Tao Du Michael Edward Dumanis Mary Katherine Dunn Joseph Edward Dwyer Ivy Loraine Eckerman

Jennifer Lynn Edwards Martin Lloyd George Ellis Seth Adam Engel Alexander Eugene Erzen William T. Evans Jonathan F. Ewell Christina Owens Eyster Derek James Fahnestock Eduardo Jorge Fajardo Rachel Elena Fanelli Zareen Mehreen Farukhi Thomas Brendan Feehan C. Erin Feehlev Daniel Evan Feinberg David Frank Feldon Robert Joseph Fernandez Peyton Michael Ferrier Jeffrey Charles Fetter Ayanna Levette Fews John Michael Filigenzi Bradley James Fiorenzo Lara Brett Fisher Francis Andrew Flaherty Amy Elisabeth Flood Michael Patrick Fogarty Ellen Rose Foley Carl David Forster **Josue Frederick Fowler** Leslie Anne Frieden Eric David Friedlander Carrie Samantha Friedman Glenn Charles Fuller Nikhil Rajan Gadkari John Anthony Gagliardi Michael Gati Gaies Nicholas Bourg Galifianakis Stephanie Karen Galloway Christopher Paul Gans Susan Elizabeth Garrett Shawn Byron Gatchell Bennie Claude Gates, III Talbot Hayes Gee Barbara Allen Geren Alex M. Gershman Bart Alex Gerstenblith Denis Peter James Gibbs Susan Elizabeth Gilbert Adam Jason Glaser Brian Isidor Glucroft Adam Nathaniel Glynn David Harmon Goetz Noah Charles Goldberg Matthew Andrew Goldrick Tamas Adam Gonda Louis E. González Jamie Michelle Goodwin

Elisabeth Groome Gordon Marc William Gordon Matthew Edward Gorman Adrienne Jenny Graage William J. Graf, II Annie Sara Granatstein Geoffrey D. Gray Benjamin Morris Greenberg Joshua M. Greenberg Adam H. Greene Erich Joseph Grethel Jeffrey Gordan Griffiths John Peter Grimes Lakshminarayana Guttikonda Gregory Gordon Haas Dawit Gebremichael Habte Carolyn Sarah Hack Charles Justin Haggerty Nancy Elizabeth Hall Ogden H. Hammond Everett Lance Hamner M. Miyoun Han Soo-Hwa Han Vikram Hariai P. Barnaby Harkins Dana Michelle Harmon Holly Renee Harrison Rachel Elizabeth Haugh Faris Ibrahim Hawit Audrey Wolcott Hawkins Stephen Daniel Haynes Rvan Nicholas Heater Sarah Elizabeth Hedges Tracy A. Hegarty Bradley Thomas Heim Eric Carroll Helms Stephanie Marie Henry Christopher Mark Hepler Marywill Rebecca Herrfeldt Stefanie Lorin Hershkowitz Brian Michael Hess Anna Lee Hewko Keri Lynn Hicks Todd Leander Hicks Sara Jeanne Hirschfeld Christopher Sek Fun Ho Daniel Alan Hoit Eric Nathanial Holmes Carmen M. Hosler-Moran Munfarah Hossain Maki Margaret Hsieh Roger Weibar Hsiung Lauren L. Hsu Virginia Wen-chi Huang Peter Sotir Hussey Jack Jen-Chieh Hwang

Judy Chin-Linn Hwang Matthew Wook Hwang Kimberley Anne Isbell Mali Yhassan Ishtewi Jesse Thomas Jacob Christina Marie Jacobsen Seth Lawrence Jaffe Deepak Kumar Jain Jonathan Alan Jarzyna Prateek Iindal Jessica Hong Johng Tamara Natasha Johnson Iodi Danielle D. Iones Kristina Parkinson Jones Ty Valliant Jones Rebecca D. Justice Jeffrey Francis Juzaitis, Jr. Jaydeep Shivaji Kadam Nicole Suzanne Kadomiya Abel Nathaniel Brener Kahn Patrick Michael Kahnev Eric Matthew Kaiser Danielle Marie Kamensky Anne Sami Kanderian Young Wao Kang Mona Kapadia Matthew Clarke Karwelies Brian Howard Katz Todd William Kearney Geneva Rena Keaton Dennis Peter Kim Edward Sungwook Kim Elizabeth M. Kim Iean Yi Kim Jeanie H. Kim Joy Sunghee Kim Peter Shinhyung Kim Thomas Sung-Hoon Kim Tobin Arnold Kim Amanda C. Kirby Daniel J. Kirchner Victor Masaru Kizushi Jason R. Klismith Iennifer Louise Kloss Stephen Anthony Knight Bong Joon Ko Hok Sien Koe Farzana Aziz Koita Renée Krystine Kolessar Joanne Melody Koukis Emily Koumeli Gavathri Ramakrishnan Koundinya Aaron Hugh Krajewski Rachel B. Kramer Portia Ann Kreiger

Correne Stephanie Kristiansen Kenneth Scott Krivitzky Geoffrey D. Kruczek Manfred Christopher Krueger Werner Lee Krueger Elizabeth Jean Kuchta Brian A. Kuczma Alexander Kenneth Kuhns Alexander Kuo Daniel Hui-Chun Kuo Scarlett Kuo Susan S. Kwon Lauren Michelle La Grega Maria Asune Laca John Wayne LaDuca Anupa Narendra Laheri Leslie Suihang Lam Kathryn Hall LaMaina Allison Marie Lampton Shawn Lan Katherine Michele Langbein Elizabeth Jean Latham Damian T. Lavelle Ionathan Lawrence Clifford Alba Lay Robert Gene Lavton, II Long Nguyen Le Benjamin C. Lee Chieh Allen Lee Chong-Lim Lee David Sungpil Lee Jiwon Esther Lee Kevin C. Lee Mark Lee Peter Youngwoo Lee SoJeong Sue Lee Serena D. Lei Andrew Keith Lem Drew Thomas Levy Justine Lim Alexander Tan Limkakeng, Jr. Sheng-yiao Lin Arthur Stanley Link, III Barra Little John A Litwinski Kimberly Ellen Liu Jonathan Brent Lo Mindy S. Lo Asjylyn Loder Jason Jon Longwell Mark Van Denberg Lord Gavin Michael Loughlin Christine Marie Lovly Kelly Ann Lowe Jeremiah Michael MacAdam John Paul Madden, Jr.

Jeffrey John Malak Eric Maldonado Matthew Patrick Mann Samantha Leigh Marks James Arthur Maro, Jr. Jacqueline Susanne Marquez Charles Martin, III Shari Alana Martin George Mathew, Jr. Patrick Eugene McCleskey Jonathan Vernon McCoy Joseph Stevens McCulloch, IV Michael David McEleney Joshua Michael McGrath Mary Ann McGuire Tucker McKeever Nadia Jonelle McKitty Joshua John McTee Jessica Carroll Meiller Karen Lynn Melendez Nadeve Ménard Eric Shawn Metcalf Seth Robert Michelson Laura Maureen Mielcarek Kyong-Ah Evelyn Min Farnaz Mobasheri Michael-Alice Moga Aparna Mohan Avinash Lalith Mohan Tatiana Mollazadeh Alan L. Moore Michelle Lynn Moore Joseph Robert Moran Joseph N. Morgan Anthony Alexander William Moses Daniel Y. Mostovov Julia Caterina Mujal Victor Antony Munsen Hugh Patrick Murphy Michael Nachmani Dawn Josephine Nafus Reina Nakamura Koji Nakashima Neal Kamal Nakra Matthew Lion Nemeth Parag Nene Jennifer Ruth Nevin Karen-Faye Newman Bruce M. Ng Weekiat Ng Amelia Ai Mei Ngoh Charles Minh Nguyen Tam Thanh Nguyen Markyia Shanell Nichols Michael Shields Noonan

Sateesh Kumar Nori Patrick Dennis O'Neill Todd Peter O'Neill Thomas Christian O'Reilly Christopher Todd Odachowski Jeffrey Michael Odom Shari Lynn Ommert Jason F. Orlando William Christopher Orsini Elizabeth Robin Osur Boris Ovodenko Banu Ozkazanc Amber Tszeitel Pakilit Michelle Angela Paraskewich Shreya Praduman Parikh Daniel Park James Jonghyun Park Robert F. Parker Manish Surendra Patel Mayur Bipin Patel Priti Harish Patel Robert Kaizad Patel Abigail Jane Patner John Arthur Paxton Christopher Wells Pehrson Jerome Penn Amy Lynn Perbeck Na'Ima Tezrah Perkins R. Scott Peterson Ryan David Peterson Jessy Maria Petridis Chuong Dinh Pham Ioelle Pierre Rachel Ann Pilotti Michael Alan Platt Dave Charan Prakash Katherine Durkish Prescott Amy Lynn Priess Jennifer Lynn Pummell Sukdith Punjasthitkul Mala Puri Edward Matthew Quigley Neal Albert Quinn, III Noreen Fatima Qureshi Daniel Raab Raedle John Robert Ramey Juliet Grace Randall Ciro Giuseppe Randazzo Laura E. Rauchfuss Sved Asad Raza Ajoy Reddi Varsha Devi Reddy Margo Hope Rees Elizabeth Anne Louise ReVelle Alexander Peter Reynolds Kerry Anne Reynolds

Eliza Rhee Imran Rizvi John James Rizio-Hamilton Lydia Kay Roberts Leticia Maria Rodriguez Lauren Elizabeth Roginski Jennifer M. Rolling Dara Leslie Rosenbaum Joshua Roter Jessica Marie Rozman Adam Ian Rubin Maria Lenore Rudisill Jason Scott Rudnick Luis Fernando Ruiz Robyn Lynn Runge Christopher Russell-Wood Adam Michael Sabbath Rory Richard Thomas Sabino Andrea Robin Sachs Christopher Sadeh Christopher David Sakal Asaad Hani Samra Zavda Imara Sánchez-González Andrew Louis Sarno Liesl Adrienne Savage Kathryn Ann Schad Mark Alexander Scheel Eric Jason Scheier Leah Scheier Gregory I. Schinella Sarah Lvnn Schuler Andrew Herbert Schultz Sophia Lenore Seekins Nathan Irving Seidenberg Amanda Hope Sevrin Mehul R. Shah Sanjay Mahendra Shah Jeffrey David Shalom William Scovell Shear Anne Eleanor Shematek Yi Shen Jeannie-Marie Elizabeth Sheppard Leo D. Shin Terry Siu Lam Shum Marc Eugene Silberstrom Marc Thomas Silhavy Bennett Scott Silverberg **R. Scott Simmons** David Collins Simon Donna Dan Situ Christopher John Skoglund Tanya Marie Slick Justin Patrick Slotman Travis William Smith

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Performer's Certificates in The Peabody Conservatory of Music

Esther Catherine McLeod. *Oboe.* Susanne Julie Stueber. *Violoncello.* Todd Thiel. *Violoncello.*

Bachelors of Music in The Peabody Conservatory of Music

Ellen Marie Barnum. Bassoon. Randall Robert Bauer. Composition. Douglas Alan Beck. Organ. Christopher J. Brathwaite. Violin. Daniel Z. Brodney. Percussion. Carleton M. Chambers. Voice. Eun Hee Chang. Organ. Chia-Chi Chen. Piano. Li-Ming Chen. Violoucello. Young-Ji Nicole Choi. Violoncello. Ke-Hsing Chung. Flute. Barrie Cooper. Violiu. Hector Corrada. Guitar. Ryan Patrick Dolan. Voice. Jonathan Sean Eftychiou. Tuba. Andrew William Farrell. Clariuet. Sean Patrick Finn. Recording Arts and Sciences. Joseph Michael Francavilla. Piano. Marni Freund. Harp. Matthew Carden Ganong. Piano. Brian Isidor Glucroft. Clariuet. Lysiane Gravel-Lacombe. Violiu. Sonvi Gwon. Piano. Raili Joyce Haimila. Viola. Valerie Hartzell. Guitar. Jayson Joe Helgeson. Guitar. Paula Marguerite Hickey. Recording Arts and Sciences. Marianne Joan Hieb. Voice. Mark Kalman. Composition and Recording Arts and Sciences.

James Thayer Kelley, III. Percussion. Jin Hee Kim. Voice. Jun Yong Kim. Violin. Soomi Kim. Voice. Alok Kumar. Voice. Elaine Sijera Lachica. Voice. Jeanie Jieun Lee. Piauo. Yi-Shien Lien. Violoncello. Elizabeth Marshall Lilly. Harp. Owen Christopher Lovell. Piano. Carole Tracie Luck. Voice. Michael Scott Markham. Guitar. Samantha Marks. Horn and Music Education. Cindy Beth McCloskey. Clarinet and Music Education. Esther Catherine McLeod. Music Education. Nathanial Taylor Mead. Oboe. Heewon Megan Moon. Violin. Marissa A. Muro. Voice. Wavne Ramon Newman. Trumpet. Theodore Icarus Pappas. Trumpet. John G. Parton. Composition. Chrysa Lee Prestia. Composition. Mayumi Repp. Violin. Daniel Rozas. Saxophone. Joseph Francis Satava IV. Piano. Holly Kristen Schaff. Tromboue. Lisa Marie Sebastiani. Violin. Brian Eugene Smith. Double Bass. Susanne Julie Stueber. Music Education. Ikuko Takahashi. Violin. Mark David Tevis. Voice. Susan Lynne Thompson. Percussion and Music Education. Jennifer Rebecca Tibbetts. Voice. Shiho Toyonaga. Viola. Michaela Trnkova. Harp. Sheng-Tsung Wang. Violin. Yuko Watanabe. Viola. Juliette C. Wells. Violiu. Dontae Maurice Winslow. Trumpet. Erica Lauren Wise. Violoncello.

Matthew Patrick Wright. *Guitar*. James Howard Young. *Clarinet*. Dan Yu. *Harp*. Tao-Ming Yu. *Violin*.

Bachelors of Science in The School of Nursing

Bernadette Louise Pinn Adams Michael Kevin Allison Paulette Marie Anest Richard Carl Arguilez Victoria Elizabeth Baer Christy Michelle Belliveau Louise Reid Boyce Julianna Frances Buettner Joann Burchacki April Elizabeth Byrd Helen Piersol Byrnes Anne Marie Caston Michelle Elizabeth Clark Susan B. Clime Brian Joseph Colman Elizabeth Anne Conley Elizabeth Jean Cooper Christine Yvonne Corvin Sherry Yvonne Daniels Cheryl Anne de la Cuadra Andrea J. DeSanctis Michelle Ann Doran Adrienne Michelle Duprey Mary Ruth Eades Erin Michelle Finley Robert John Gerchalk Virginia May Gonski Jamie Ellen Greenberg Alexandra Takanikos Greenlee Marsha Yvonne Hall Marlo Ann Michelle Hardy Peter Franklin Harrington Helen Gloria Hui-Chou Kristen Danielle Kanerva Marcy Renee Kennedy Heidi Anne Kingsbury Ivy Paige Krauss Kara J. Lacy Elizabeth Courtnay Lake Kimberly Carter Legg Natalie Leyzerovich Julie Ellen MacPhee Michele Ann Madden Michele Martine Madlock Elizabeth Catherine Mailer

Gloria Linsalata Maskell Cherelle Monik Matthews Gina Maria McDaniel Cynthia Lyn McLaren Teresa Ann Messler Christina Michelle Miller Chalissa Yvonne Moore Sharon Denise Moulton May-Lin Helen Ng Susan Babette Pinckernell Melanie Maria Rosario Carolyn Ann Ross Sheri Lee Sabanski Margaret Ann Sama Michael Figueroa Samson Meyer Milton Schlein Kimberly Renee Schultz Kelly Kathleen Scott Alina Christine Sibley Laura Diane Sleat Heather Michelle Snyder Ellen R. Striebel Cathie Dockey Stutler Susan Dale Tannenbaum Melanie Gail Trapp Adrienne Ann Tronzo Susan Lin Tsu Kristen Eileen Turner Eugenia Chinyere Umegbolu Lora McDanal Van der Linde Carla Vassallo-Baum Holly Ann Villepique Susan K. Wallace Paula Victoria Webb Carol Ann Webber Pamela Ann Welch Linda Walters White Kimberly G. Wiesenfeld Jacoba van Doesburgh Wilson Robert John Wyatt Melvin T. Zeiders III

Bachelors of Science in The School of Nursing Class of July 1997

Kimberly Ann Alva Cassandra Yolanda Michaela Anderson Laurent Edouard Owen Avondstondt Dana Michelle Bankins Reginald Emmanuel Bannerman

Kebbi Avanna Batson Sara Jane Bowsky Allison Anne Boyle Diane Marie Brown Susan M. Buckley Joni Luan Buechler Vicki Slayton Campbell Alison Lynn Cannon Christina Chien-Li Chang M. Darryl Coggins Lynn Elizabeth Conrad Sarah Elizabeth Deacon Nancy Jenkins DeVries Erin Elizabeth Dettmer Bruce Leroy Eckhart Tracey Lynn Fackett Mary Eileen Faltynski Manal Youhanna Fares Jason Alan Farrow Judith Ann Ferragamo Jeanne Margette Florance Cynthia Ellen Fondiler Michael Allan Frakes Crystal Ann Franklin James H. Fuller Amy Elizabeth Gartner Melissa Lynn Gettmann Lisa Elizabeth Ghelerter Stephen George Gonsalves Wendy D'Ann Zimmer Greenwood Lisa Ann Grimes Susan June Haseltine Catherine Anne Hembrow Jill Christine Hessenauer Shawna Lynne Hutchins Robin H. Hyde Georganne Rosalie Jambeter Aimee Elizabeth Jeffrey Anny Jeon Stacey Lynne Jonas-Keeling Janet L. Jones Marcia Karen Jones Jennifer Ann Jordan Maeve Miriam Juran Watkins Anita J. Kacena Tiffany Anne Karchmer Amy Elizabeth Kayler Christine Maria Kenlan Melinda James Kiely Margaret Marie Kildee Cynthia Ann Kline Muriel Elizabeth Nepveux Kosmas Elaine Ailsworth Lasky Nikki Simone Lawson

Cynthia Louise Levick Staci Lynn Lomberg Lisa Chaussier Lynch Jennifer Denise Mann Jennifer Michelle Mann Laurie Anne Masi Karen L. McCamant Megan April McLean Marigrace McNamara Rachelle Renee Michelon Jennifer Lynn Moeykens Kimberly Anne Morgan Michael George Nixon Kristine Suzanne Nuccitelli Allison Burke Perrelli Jeannine Renee Piele Melinda Jill Porter Anne Kristine Putnoky Julie Eugenie Marie Puyau Jesse Elizabeth Rattan Shahdokht Reeder Naomi Yamashita Reid Kelly Rae Roberts Lori Diane Rollinger Jeffery David Rumfield Christine Rutkowski Susanne Marie Sajnacki Ruby Monica McGee-Sanford Lora LaPage Santi Molly Ann Sarkisian Anthony Allen Saucier Peg Mary Schanne Katherine Jang Schulke Cheri Renee Scroggs Mary B. Sinden Elisabeth Anne Smith Raymond P. Smith Leslie Patricia Sorensen Rhonda Karen Stone Bethany Elaine Sullivan Jessica Mary Sullivan Kristen Nicole Suszek Karen L. Swanson Suzanne Tershak Lisa Betina Uncles Lamphear Robin Gale Veidi Inga Vesnovsky Marcia Joyce Walmer Heather J. Watts Laura Renee Weil Jennifer Sue Wilson Candice Grace Yee Mary Lynn Youngwerth

Bachelors of Liberal Arts in The School of Continuing Studies

Nancy Brown Anderson Melvin Tyrone Bond Vanessa Laureia Bradlev Charles Anthony Bruner Ann Elizabeth Evans Chervll Lynn Glab Mary Elizabeth Glover Sharon Katherine Jenkins Timothy L. Johnson B. Jefferson Langmead Patricia Lynne Lenane Madleen Murrell John Daniel Pippi Janet L. Seraphine Jennifer Charlotte Simpson Sandra Taylor Darlene Weimer Weber

Bachelors of Science in The School of Continuing Studies

Lisa Hunter Alfriend; Business and Management. Alicia Christy Bannon; Business and Management. Christopher Patrick Beckman; Mathematics. Janice Marcella Boring; Business and Management. Karen Schilling Davis; Business and Management. Dorothy Cordelia Dunn; Business and Management. Georgean C. Finnerty; Business and Management. Laura Ann Fitzpatrick; Business and Management. Chandler Emil Gotschlich; Business and Management. David Marc Harris; Business and Management. Regina Annette Hill; Business and Management. Sherri Yvette Holt; Business and Management. Jan Ingles; Business and Management. Michael Frederick Johnsen; Business and Management. Wendy Lee McConnell;

Business and Management.

Denise L. Carr; Business and Management. Michelle D. Pytko; Bnsiness and Management. Carole Lynn Rest; Business and Management. Perry Oneil Vanderhorst; Bnsiness and Management. Elliot Weinstock; Business and Management. Gregory Wilt;

Business and Management.

Certificates in Hopkins Leadership Development Program in The School of Continuing Studies

Jasmine Leslie-Ann Anderson Matthew Curtis Barnhill, Ir. Darryl Brantley Arthur Wardell Brown, Jr. Yolanda Roberts Brown Dwight Aaron Campbell Ronicsa M. Chambers Shannon Moneé Dawkins Yvonne Sonia Green Jewel Michelle Griffin Eva Gross Darcel H.M. Guy Anthony Andrew Harris Teresa Elizabeth Howard Carl Cameron Jefferson Raymond Chauncey Jenkins Karen B. McGraw Kimberly Ann McLeod Rosemarie Wallace Morton Shawn Annezette Morton Nancy DiAnn Owens Vincent R. Pendleton Anita A. Pinder Milton G. Pitts Sharonne Robinson Shuan Hau Macaway Rose Kimberly W. Ross Susan Sands Elmer Vernon Sembly, III Roberta J. Shields Willie Henry Simpson Daniel Charles Tavernier Diane Denise Tunstall Royce Anthony Wells Joan Marie White Vietta Shirl William

Certificates of Hopkins Fellows in Change Management in The School of Continuing Studies

Karin Stähelin Ashby Mary Patricia Backer Sandra D. Beyer LaVerna Tanner Boston William Allen Butler Paula Nanette Denman Fontelle Gilbert Scott Shane Grav Harold Scott Johnson Melinda Pattashnick Klonsky Mark D. Lantz Maureen Elvira McIntosh-Alberts Diane H. McNeil N. Nina Merchant Rosemarie Theresa Nassif, S.S.N.D. Kerry M. Rafferty Mark Robert Resta Debra Kerr Saneda Joan F. Scott Gary Arthur Spivack Linda Dian Stoskopf Jane B. Thall Leslie Ellen Traub Judith Louise Westbrook Michael Francis Wilt

Certificates of Women, Leadership and Change in The School of Continuing Studies

Arnita Denise Dix Kolleen Kay Gowans Evelyn Hoban Kathleen Kammer Cheryl Ann Kirk Pamela L. Pitt Nancy E. Reuscher Andrea Ilene Torf Linda Darlene Turner Joann F. Willats Stephanie P. Yancy

Masters of Science in The School of Continuing Studies

Nicole Aaron; Business. S.K. Adwar-Jagango; Business. Anabella S. Agno; Education. Deborah Jo Albrecht-Dahms; Special Education. Aliceanne Maglaras Alden; Special Education. Christopher S. Allen; Applied Behavioral Science. Mary Michaline Allred; Special Education. Jacqueline Margaret Lilar Almond; Counseling. Terri Lee Alotto; pecial Education. Angela Maria Alston; Business. Laura Carroll Altamar; Education. Christina Marie Ammerman; Special Education. Gina Calvachi Anazco; Special Education. Eileen B. Anderson-Lancaster; Special Education. Paul Gerard Andrichuk; Counseling. Julia Antol; Special Education. Timothy Patrick Appleby; Business. Karen Slicher Appleton; Applied Behavioral Science. Richard E. Armstrong, Jr.; Interdisciplinary Science Studies. Guillermo E. Ascui; Business. Jennifer Fader Atkins; Special Education. Fred W. Atkinson, III; Information and Telecommunication Systems. Joseph Anthony Avara; Marketing. Joan Harris Avent; Applied Behavioral Science. Folashayo Okunlola Babalola; Information and Telecommunication Systems. Lucinda M. Babers; Business. Raymond Patrick Bahr; Interdisciplinary Science Studies. Conya Jerneen Bailey; Special Education. Melvadeen W. Bailey; Counseling. Donna M. Bainger; Special Education. Ernest Jerome Baker; Applied Behavioral Science. Mary Elizabeth Baker; Counseling. Alice Baldwin; Business. Marla Rene Balfour; Special Education. Peter H. Ballinger; Business. Theodore Nicholas Balzano; Business. Maryann Banchiu; Business. Rainette S. Bannon; Applied Behavioral Science. Francina Ashby Bardsley; Education. Lucinda Dawn Barlow; Education. Doris Hutto Barnes; Special Education. René Chrishilda Barnes; Business. Michelle Lea Barrett; Information and Telecommunication Systems. Helena Drew Barringer; Education. Caryl-Marie Barron; Special Education. James Stanley Barthmaier; Business.

Monica Christine Tinio Bascon: Education. Patrick James Bates; Business. George John Batsakis; Business. Margaret Martino Bauer; Applied Behavioral Science. Nicholas Newell Bauman; Business. Susan Elaine Beall: Business. Richard L. Bearden; Information and Telecommunication Systems. Kristina Lynn Beauchamp; Business. Catherine Ann Beck; Applied Behavioral Science. Suzanne Lynn Beckham; Business. Traci L. BeGole; Business. Vadim I. Belkin; Real Estate. Brenda Storey Bell; Business. Jennifer N. Bello-Hooker; Special Education. Laurie Sue Benjamin; Special Education. Michael Frederick Berends; Business. Karen E. Berger; Marketing. Suraya Ali-Khan Berger; Interdisciplinary Science Studies. Fitzroy Jerry Bertrand; Real Estate. Paras Bhandari; Business. Neena Bhatiani; Information and Telecommunication Systems. Kimberly Lynn Bian; Counseling. Jennifer Gavle Bicknell; Business. E. Ramsey Bigham; Special Education. Michael James Birmingham; Applied Behavioral Science. Tsion Sarah Bisrat; Business. Kellie Cromwell Blake; Applied Behavioral Science. Cynthia Patricia Blalock; Business. Daphne Lavone Blick; Counseling. Ronald J. Blitz; Information and Telecommunication Systems. Nancy Louise Blue; Education. Ronald A. Blum; Real Estate. Dennis Lee Bobo; Real Estate. Kathleen Patricia Bockstie; Applied Behavioral Science. Steven David Boden; Education. Catherine LaPointe Bohannon; Applied Behavioral Science. Jennifer Erin Bomboy; Education. Serrina Footman Boone; Marketing. Norma Elizabeth Booth; Counseling. Robert Steven Borris; Real Estate. Pamela Borys; Education. Michael Joseph Bossidy; Business. Daniel W. Bowen; Business. Mary Jo Bowers; Business. Fandreia Lou-Sharnie Bowman; Counseling. Donna E. Bownes; Applied Behavioral Sciences. Jenifer Ann Boyce; Education. Jaimi Edwina Boyd; Applied Behavioral Science.

Ana Maria Boza; Marketing. Cathleen Anuszewski Bradley; Applied Behavioral Sciences. Jennifer Konieczny Bradley; Special Education. Rita Jean Bragg; Business. Michelle L. Brailsford; Applied Behavioral Sciences. Warren Edward Brantner; Information and Telecommunication Systems. Kendra Marie Braucher; Education. Karen Elizabeth Bray; Counseling. Julie Anne Breneman; Special Education. Roger Ellingwood Brinley; Applied Behavioral Science. Janet Yvonne Briscoe; Special Education. Elizabeth Britton; Information and Telecommunication Systems. Carol S. Brown; Business. Che Marshall Brown: Business. Kathleen Elizabeth Brown; Applied Behavioral Science. Odell Williams Brown; Counseling. Rochelle S. Brown; Basiness. Yvonne Watties Brown; Counseling. Tammy Lynn Bruff; Special Education. Ellen Porter Buchanan; Marketing. Richard Mark Buchter; Information and Telecommunication Systems. Jeanette Lynne Budzik; Connseling. James Alan Bukowski; Basiness. Susan Marie Bungert; Information and Telecommunication Systems. John Louis Burke; Education. Thomas Charles Burns; Information and Telecommunication Systems. Michaele Marie Butler; Special Education. Stephen Christopher Byrnes; Connseling. Eric Sean Cada; Business. Vincent Daniel Calhoun; Information and Telecommunication Systems. Mary Josephine Calini; Applied Behavioral Science. Linda Ann Callahan; Special Education. Antony Dana Calvo; Information and Telecommunication Systems. Christopher Gordon Campbell; Education. Dedie Jones Campbell; Marketing. Gary Edward Campbell; Education. James Ernest Campbell; Information and Telecommunication Systems. Janet L. Campbell; Business. Kecia Annette Campbell; Basiness. Pamela S. Canova; Connseling. Carol J. Caperton; Connseling. Paula Valarie Caprice; Education. Tulio M. Capriles; Business. Coleen Ann Carone; Education. William Geoffrey Carpenter; Business. Christine Campbell Carr; Marketing. Lori Renee Carr; Special Education.

Norman L. Carter, III; Business. Lynda F. Carver; Counseling. Kimberly Hubbard Cashman; Education. Robert Taylor Cashman; Real Estate. Linda Louise Cassard; Business. Carin Michele Cavaliere; Education. Martha Jane Cecil; Marketing. Brandi Victoria Chaffin-Gladden; Business. Teresa Colleen Chambers; Applied Behavioral Science. Elaine Lin Chang; Education. Tina Yu-Chieh Chang; Information and Telecommunication Systems. W. Cara Chang; Business. Vera Johnson Chapman; Information and Telecommunication Systems. Margaret Delores Charles; Connseling. Yin-hsiu (Monica) Chen; Basiness. Karen Paul Chesek; Special Education. James Chen-yu Chin; Business. Chang Sik Choe; Information and Telecommunication Systems. Ravi N. Choudhry; Real Estate. Samina Amin Chowdhury; Business. Lisa Marie Ciarapica; Special Education. Michael J. Citrone; Business. John E. Clark; Information and Telecommunication Systems. Sujata Kumari Clark; Education. Kevin James Cleary; Business. Thomas Harry Clowes; Education. Wanda Primrose Coates; Education. Marcia Crawford Coats; Counseling. Susan T. Cochran; Special Education. Brenda Green Code; Business. Nancy Beth Cohen; Education. Ruth Jefferson Colbert; Applied Behavioral Science. Marilyn McKinney Cole; Business. Tamara Ann Cole; Special Education. Carey B. Cole, Jr.; Information and Telecommunication Systems. Dean Michael Coletta; Connseling. Lori A. Confroy; Business. Rebecca DeFlora Connaghan; Business. John William Conroy; Information and Telecommunication Systems. Valerie Denise Cook; Marketing. Argery B. Cooke; Applied Behavioral Science. Renee A. Cookerly; Business. Peter James Corbat; Education. Delia Victoria Coronel; Business. Leslie Couchenour, Jr.; Business. Sandra Lee Coulter; Basiness. William J. Cousins; Applied Behavioral Science. Gordon Edward Cowher; Education.

Gwendolyn Marie Cox; Special Education. Tracey D. Cramer; Special Education. Susan Hunt Crockett; Business. Moshe Culang; Business. Faith W. Culp; Counseling. Erin Kay Cunningham; Marketing. Laurie Laila Hassen Cymbor; Business. Bijul B. Dalal; Special Education. Anh Q. Dang; Business. Travers Daniel; Real Estate. Cornelia Danier; Information and Telecommunication Systems. Ann Kappell Danner; Counseling. David Ari Dash; Business. Emerson C. Davis; Applied Behavioral Science. Monica Alexis Dean; Information and Telecommunication Systems. Ryan Laurence Dearborn; Real Estate. Janette Carol DeFelice; Special Education. Maryann Delaney; Special Education. Bethany Joan DeLude; Information and Telecommunication Systems. Elena S. Dennis; Special Education. Brenda Lee Desjardins; Real Estate. Lawrence Scott Devitt; Business. John Albright Diehl, Jr.; Education. John Paul Di Leo, Jr.; Business. Susanne Barbara Dieper; Business. Mae Ellen Dillon; Counseling. Ernest Fenton Dinsmore, Jr.; Applied Bebavioral Science. Karen Elizabeth Doe; Business. Molly Marie Donovan; Information and Telecommunication Systems. William Duane Dorch; Business. Karen Anne Dorsett; Counseling. Randal Marc Draper; Applied Behavioral Science. Alan James Dreher; Applied Behavioral Science. Susan Gail Duffy; Applied Behavioral Sciences. Donna Elaine Dunford ; Counseling. Jeanne M. Dunn; Business. Mark McIlvaine Durfee; Real Estate. Eleni Sophocles Dykstra; Education. Jason Alvin Dykstra; Education. Cherry Georgette Hermione Edgerton-Bird; Special Education. Allan L. Edwards; Information and Telecommunication Systems. Nancy Colihan Edwards; Business. Ann Catherine Eilers; Information and Telecommunication Systems. Alison Raye Elie; Counseling. Kimberly Ann Elmore; Information and Telecommunication Systems. Lynn M. Emery; Business. Margaret Marie Engl; Education. M. Eileen English; Business.

Sean E. English; Education. Kathryn Joy Erickson; Business. Kevin Michael Erskine; Business. Candie S. Marchand Evans; Special Education. Cynthia Erskine Evarts; Education. Lee Eliot Eybel; Business. Carole M. Fagnani; Special Education. David Edward Farnum; Counseling. Amer A. Farooq; Information and Telecommunication Systems. Janet Marie Farrell; Education. A. Cathlyn Farrow; Business. Loretta Mary Favret; Education. Karen Elizabeth Fay; Business. Jennifer C. Felbinger; Special Education. Marina P. Feldman; Business. Donald L. Felix, Jr.; Business. Caroline Patricia Fermin-Knuth; Business. Donna Ann Fields; Applied Behavioral Science. Margaret Rose Fiester; Applied Behavioral Science. Sara Hilary Filling; Business. Bernadine Lenore Fireison; Special Education. Dale Edwin Fischer; Applied Bebavioral Science. Wayne K. Fisher; Business. Ginger Marie Fitzpatrick; Education. Pamela Susan Flail; Business. Adrian Fogel; Education. Morris Nathaniel Fogle; Business. Frederic Conar Foley; Information and Telecommunication Systems. Steven Lee Forbes; Information and Telecommunication Systems. Janice Michelle Forbes-Smith; Business. Jack Lawrence Forsythe; Applied Bebavioral Science. Kathleen S. Frame; Interdisciplinary Science Studies. Donna Wiggins France; Counseling. David Avi Frand; Information and Telecommunication Systems. Mary M. Franklin; Information and Telecommunication Systems. Barbara Ann Fredrikson; Education. Leslie Beth Freeman; Special Education. Gerald S. Freese; Information and Telecommunication Systems. Angela Lynne Freibaum; Business. Cary Lewis Frey, Jr.; Connseling. Judith Ruth Friedman; Counseling. Steven E. Friedman; Education. Roland Conrad Fritz; Business. Ariela Fuchs; Special Education. Steven Marc Galen; Applied Behavioral Science. Mary Margaret Gallagher; Business. Michael Shawn Gallagher; Business. Meredith Gardner; Counseling.

Charlotte Ann Garrison; Marketing. Alicia Marie Gasparovic; Education. Brian William Gasser; Business. Bryan Keith Gathagan; Business. Gregory W. Gauthier; Interdisciplinaanry Science Studies. Debra Ann Hinkle Gauthreaux; Special Education. William Paul Gavin; Business. Patricia Lynn Geier; Information and Telecommunication Systems. Amy B. Geiger-Dipietro; Business. Laurin Anne Gentry; Business. Eleanor R.L. Gerber; Special Education. Janet Lee Gever; Business. Teresa Lee Ghion; Education. Joseph George Giese; Information and Telecommunication Systems. Tae Kyung Gil; Business. Brian Lee Gilbreath; Business. William Thomas Gillan; Business. Victoria Ann Gilliam; Counseling. Stanley Allen Gimont; Real Estate. William D. Given; Interdisciplinary Science Studies. Ereni Archodessia Gleason; Education. Vanessa Sho-Lon Gooch; Information and Telecommunication Systems. Cheryl Lynn Goodman; Applied Behavioral Science. Adrienne Blair Goslee; Counseling. Ellen Cebollero Gotthardt; Business. Emmett Leslie Graham; Business. Jaynie Marion Grant; Business. William Christopher Gravell; Information and Telecommunication Systems. Darren S. Gray; Information and Telecommunication Systems. Y. Darlene Gray; Special Education. Eve L. Greco; Business. Betty Elaine Greene; Education. Christine Renee Grieve; Business. Andrea Dawn Griffith; Information and Telecommunication Systems. Christine Theresa Grupenhoff; Counseling. Peter Joseph Grzybinski; Business. Antoine Guihon; Information and Telecommunication Systems. Claude Hélène Guillemard; Counseling. Kimberly Merrill Gumabay; Information and Telecommunication Systems. Lenore Gurin; Applied Behavioral Science. Kelly Christine Haag; Special Education. Mary Cecelia Hackley; Information and Telecommunication Systems. Judith Elizabeth Hagemann; Education. Ingrid Suzanne Hagen; Business. Todd James Hager; Information and Telecommunication Systems. Michael Alan Haiss; Information and Telecommunication Systems.

Gerrit C. Hale: Business. Ronald Halibard: Education. Carolyn Wallis Hall; Education. Christopher C. Hall; Marketing. Martin L. Hall; Business. Mary Elizabeth Hall; Business. Stephen Thaddeus Hall; Business. Timothy Joseph Hall; Business. Rachel B. Handloff; Counseling. Glenn A. Hansen; Applied Behavioral Science. Jason Dee Hardebeck; Business. Gillian Gadpaille Harding; Business. Lawrence David Harkleroad; Business. Robin Michelle Harmon; Business. Thomas James Harmon; Business. Kathryn Ruth Harrington; Special Education. Laura Lynne Harris; Information and Telecommunication Systems. Nancy Ellen Harris; Special Education. Allison Baughan Hart; Marketing. Anne Louise Hartig; Special Education. Damian Christopher Hartner; Information and Telecommunication Systems. David Michael Hauserman; Special Education. Rebecca Noelle Haven; Business. Mary Denise Havery; Special Education. Evelyn Marie Hawley; Special Education. Julie Sue Heaton; Special Education. Sherri Clough Hebert; Applied Behavioral Science. Shelley Christine Heinz-Buehlman; Education. Laura Lynn Heller; Business. Marc Shane Henderson; Business. Michael Scott Hendrick; Education. Kim Lavor Hendrick-Bradley; Applied Behavioral Science. Eric David Hendrickson; Information and Telecommunication Systems. Harold Isaac Henig; Business. Sean Robert Heritage; Information and Telecommunication Systems. Kathryn Angela Herman; Counseling. Page Koch Herman; Business. Paul David Herman; Applied Behavioral Science. Francine Hertz; Special Education. Mary Gerity Hervey; Business. Seth Jeremy Herz; Information and Telecommunication Systems. Holly M. Hesen; Education. William Monroe Hess, Jr.; Information and Telecommunication Systems. William Henry Hessick, IV; Business. David Sherwood Hewett; Business. Mariam Ellen Hewitt; Special Education.

Susan Malyn Hickerson; Business. Linda Ann Hickey; Business. Robert Walter Higgins, Jr.; Special Education. Donna Ann Hill; Information and Telecommunication Systems. Ivy Marquetta Hill; Education. Thomas Anthony Hill; Business. Cynthia M. Hillsman; Business. Dell Monica Hines; Business. Frederick Charles Hines; Information and Telecommunication Systems. Jason Cooper Hines; Business. Eva-Maria Hoffmann; Education. Sasha Price Hogan; Real Estate. Deborah Dawn Holihan; Education. Geoffrey William Holland; Special Education. Judith Ellen Holland; Interdisciplinary Science Studies. Kay Myers Holt; Business. Marlene Frances Holzapfel; Information and Telecommunication Systems. Gregory Stephen Hood; Counseling. Joseph Benjamin Hooper; Information and Telecommunication Systems. Lori Weiner Horkan; Education. Kelvin Daniel Howell; Business. Thomas Charles Hoxie; Business. Carolyn Stewart Hrdlick; Business. Kelleigh Suzanne Huggins; Applied Behavioral Science. Kimberley Ann Humphrey; Applied Bebavioral Science. Frances Elizabeth Hunt; Special Education. Lisa Baker Huot; Business. Alison Anne Hyde; Education. Marianne Bayda Hyer; Information and Telecommunication Systems. Christopher T. Hyland; Business. Le'Angela D. Ingram-Smith; Applied Behavioral Science. Lars Michael Issa; Information and Telecommunication Systems. Donna Marie Jablonski; Business. Janice Copeland Jacksits; Special Education. Donna Lee Jackson; Business. Lynn R. Jackson; Business. Theresa Corrine Jackson; Special Education. James Philip Jacobs; Business. Margaret Rebecca Jacobs; Information and Telecommunication Systems. Marilyn Kay Jacobs; Special Education. Mary Brown James; Special Education. John McCarthor Jamieson, III; Information and Telecommunication Systems. Charles Terrence Janifer; Information and Telecommunication Systems.

Michael Jaremchuk; Business. Angela D. Jeter-Jones-DeHart; Applied Behavioral Science. Jo-Ann Loring Jewell; Education. Guocheng Jiang; Real Estate. Laura Anne Johnson; Applied Bebavioral Science. Paula Theresa Johnson; Applied Bebavioral Science. Chrishaun Patrice Jones; Business. Leonore Jones; Special Education. Merrily Creznic Jones; Counseling. Linda L. Jordan; Education. Tina Marie Sanders Jordan; Business. Suzanne E. Jordon; Applied Bebavioral Science. Matthias Alfred Joyce; Information and Telecommunication Systems. William Scott Kallmeyer; Business. Karen Marie Kaminski; Special Education. Rosalba Giannini Kampman; Business. Rebecca Lyn Kane; Counseling. Robin Yvette Kane; Counseling. Egon Frank Kaplan; Education. Kaumudi Kay Kapoor; Business. Jennifer Ann Karetsky; Counseling. Alexander George Kasson; Business. Andrew Melvin Katz; Education. Jonathan Michael Kayne; Real Estate. Robert Wayne Kays; Interdisciplinary Science Studies. Jennifer Ruth Keenan; Special Education. Jennifer Cooper Keller; Education. Lynne Marie Kellner; Education. Christopher Paul Kelly; Information and Telecommunication Systems. Debra Sue Kelly; Business. Keri Susan Kennedy; Special Education. Patricia Marie Kennedy; Counseling. Laura Kent Kerschenbaum; Counseling. Steven JongYoung Kim; Business. Michelle Lee Kimberland; Interdisciplinary Science Studies. Terris Andre King; Applied Behavioral Science. Theresa Louise King; Counseling. Wanda L. King; Applied Bebavioral Science. Tamla Michele Kirkland; Applied Bebavioral Science. Victor E. Klaput; Business. John David Kleinke; Business. Ann Katherine Klingensmith; Applied Bebavioral Science. Richard Gregory Klopstad; Business. Eric Geoffrey Koenick; Business. Jacqueline Dorris Koenig; Business. Michael Thomas Kohlenstein; Business. Kris Kolluri; Business. Maria Koszalka; Business.

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Hang Lu; Business. Elizabeth Alma Lucabaugh; Interdisciplinary Science Studies. Arlana Selina Lucas; Counseling. Zora Bea Lykken; Applied Bebavioral Science. Michael Frederick Lynch; Applied Bebavioral Science. Sarah Churchill Lynch; Marketing. Jeffrey Madison; Business. Randolph Allen Main; Marketing. Parag Muni Majethia; Business. Jignesh Dinesh Majmudar; Information and Telecommunication Systems. Michael Lee Makfinsky; Business. Hilary Eve Malawer; Special Education. Debra Ann Malba; Business. Kathleen Elizabeth Maloney; Marketing. Richard Jay Maltz; Applied Bebavioral Science. Peter Alexander Mangiafico; Education. Susan A. Manion; Counseling. John J. Mannion, Jr.; Marketing. Lisa B. Manowski; Marketing. Charles Anum Mante; Business. Linda Ann Marchineck; Special Education. Dovile B. Mark; Business. David Marple; Information and Telecommunication Systems. Crystal Ann Marshall; Education. Martha Carolyn Martin; Interdisciplinary Science Studies. Eileen Abrams Martini; Counseling. Robert Joseph Marton; Applied Behavioral Science. Thomas Edward Marvel; Counseling. Andrea Denise Masucci; Business. George Edward Mather, Jr.; Information and Telecommunication Systems. Serelda Donita Matthews; Special Education. Patricia Gail McCann; Business. Nancy Dianne McClellan; Business. David B. McDonald; Applied Behavioral Science. Robin Rodriguez McGuigan; Business. Maureen Elvira McIntosh-Alberts; Applied Behavioral Science. Scott Ralston McIntyre; Information and Telecommunication Systems. Michael Alexander McKay; Special Education. Robert Tigner McKenney; Business. Beth Johnson McLachlen; Special Education. Robert James McLinden, Jr.; Interdisciplinary Science Studies. Amanda Christine McMullen; Special Education. Michael W. McQuarters; Business. Jacqueline Means; Business Anne Susan Meltzer; Interdisciplinary Science Studies. Maureen Gardner Mengedoht; Education.

Kirsten Lee Merashoff; Special Education. Alan Scott Merenbloom; Information and Telecommunication Systems. James Alton Metz; Basiness. Thomas Gore Meyer; Education. Deborah A. Meyer-Mercado; Business. John H. Michel; Business. Sean Michael Mildrew; Applied Behavioral Sciences. Linda Waletzky Miller; Special Education. Pamela G. Miller; Business. Virginia Miller; Special Education. Walter Ellwood Miller; Business. Paul Lloyd Mills; Bnsiness. Nancy Letitia Mink; Business. Deborah Lynn Misiag; Education. Margaret Maria Mitchell; Information and Telecommunication Systems. Yancy J. Molnar; Business. Pattaraporn Mompanour; Information and Telecommunication Systems. Jorge Plinio Montalván; Business. Michael Montfort Moodie; Business. Joonho Moon; Business. Garet Jon Moravec; Information and Telecommunication Systems. Christopher K. Morris; Business. Mary Morrow-Bax; Marketing. John Purnell Morton; Information and Telecommunication Systems. Gene Paul Mucci; Bnsiness. Lorraine Theresa Mudd; Special Education. Todd Hans Mungo; Information and Telecommunication Systems. Yasukazu Muragaki; Business. Gabriela Maria Murgatroyd; Interdisciplinary Science Studies. Maureen Teresa Murray; Business. Eric Charles Murtagh; Real Estate. Melanie J. Myers-Brown; Business. Melissa Christine Nagle; Special Education. Leah Rachel Namenson; Counseling. Bing Nan; Business. Jane Mueni Ndunda; Information and Telecommunication Systems. Amanda Amalie Nichols Neally; Applied Behavioral Science. Gretchen Teresa Nedzi; Information and Telecommunication Systems. Carolyn Jean Neely; Special Education. Stephen Bland Nestor; Business. Sharon Herriman Nickels; Business. Christina Lynn Nimetz; Business. Deborah Christine Nisson: Real Estate. Pau Nogués; Business. Joseph M. Nolan; Business. Maria Marcolin Nolan; Education.

Marie Therese Nolan: Education. Karin Michele Nord; Special Education. Betty Lucille Nordaas; Business. Camie Norton; Information and Telecommunication Systems. Noreen L. Nutter; Special Education. Joan Marie O'Brien; Education. Jodi Renninger O'Connor; Education. Marjorie L. O'Dowd; Business. Juan Manuel Ocasio-Colón; Business. David Andres Ochoa; Business. Ryan F. Ogden; Business. Christine Angela Ohm; Education. Mary Moriarty Olds; Education. Harold Stephen Olsen; Counseling. Bradley T. Olson; Business. Rebecca Ann Oros; Business. Annette Christine Drew Owens; Interdisciplinary Science Studies. Deborah Ann Owens; Applied Behavioral Science. James Carl Owens; Information and Telecommunication Systems. James Kent Owens; Business. Seda Pahlavooni; Business. Kathleen Frederick Palencar; Real Estate. Charlene M. Parilla; Special Education. William Beaumont Parker; Business. Eugene Charles Parker, Jr.; Real Estate. Patricia May Parks; Applied Behavioral Science. Renee Marie Paschyn; Education. Jeffrey E. Peang-Meth; Special Education. Sharon L. Pearce; Information and Telecommunication Systems. Thomas Nevin Peddy; Real Estate. Joann McSwigan Pelipesky; Business. James Allyn Pendergrass, Jr.; Business. Carmina Pérez-Fowler; Basiness. Jennifer L. Perine; Counseling. Hazel Lola Perry; Applied Behavioral Science. Paul J. Perry; Information and Telecommunication Systems. Craig Richard Petzold; Business. Lynda S. Phenix; Applied Behavioral Science. Lee Vincent Phillips; Business. John Galbraith Phipps, II; Business. Deirdre McWilliams Piazzola; Special Education. Elizabeth Boyd Sindorf Piel; Special Education. Brenda A. Pilon; Real Estate. Patricia E. Piper; Connseling. Lisa Plaine; Education. Beverly Ann Plunkett; Interdisciplinary Science Studies. Debora Ann Plunkett; Business. Alex Podgurski; Real Estate.

Margaret Suzanne Rice Poff; Special Education. Gerald Henry Pogue; Applied Behavioral Science. Charles Aurthur Pollock; Applied Behavioral Scieuce. Roberta Ponds; Counseling. Catherine B. Poole; Business. William Roger Poole, Jr.; Education. Julie Ann Pooley; Iuformation and Telecommunication Systems. Suzanne Boland Pope; Business. Brian Law Porter; Information and Telecommunication Systems. Lewis Scott Porter; Interdisciplinary Science Studies. Margaux Eileen Portillo; Education. Susan Berman Portney; Education. Stefanie Jane Powers; Special Education. Stephanie Lynn Prange; Real Estate. Sheryl Lyn Presler; Education. Caroline Ann Proctor; Business. Jack P. Pugatsky; Information and Telecommunication Systems. Katherine Eliot Pugh; Business. Susan Elizabeth Pulliam; Education. Wanda Lea Queen; Applied Behavioral Science. Mavis Jerruth Quick; Education. Amy Seward Quinn; Information and Telecommunication Systems. Kimberly Brooke Rabner; Special Education. Christine Foley Radeline; Information and Telecommunication Systems. Caren Nancy Rasmussen; Business. Karen Iris Ray; Marketiug. Mary Alice Rea; Interdisciplinary Science Studies. Melissa Dawn Reda; Special Education. Dorothy Reed; Business. Darrell Kevin Reid; Marketing. Thomas A. Revesz; Business. Maria Eleni Rey; Business. Michael William Reynolds; Information and Telecommunication Systems. Rachel Lynne Rhodes; Marketing. Marybeth Peach Ribar; Education. Diane Lombardi Rice; Education. Johanna Loretta Richards; Business. Patrick T. Richards; Real Estate. Wendy Collins Ridgway; Education. Robert Joseph Riggs; Marketing. Jeffrey Christopher Riley; Counseling. Dale Arthur Roach; Business. Paula Roberta Roberts; Information and Telecommunicatiou Systems. Montressa Washington Robinson; Business. Shirley Lalia Robinson; Special Education. Drake Michael Roche; Applied Behavioral Science.

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Shawn E. Taylor; Information and Telecommunication Systems. Mamie Marie Teagle; Counseling. Thomas Richard Tedrick; Business. Kathy Danette Teemer; Special Education. Carolyn Jean Teigland; Education. Susan A. Telesca; Business. William C. Tepe; Business. Elenor Roberts Tessier; Real Estate. Janine Rasinski Tharp; Interdisciplinary Science Studies. Christopher J. Theon; Business. Kevin Robert Thiem; Information and Telecommunication Systems. Corinne Isabelle Alexandra Thomas; Business. Garthleen Elizabeth Thomas; Business. Karen Lee Thompson; Education. Laraine D. Thompson; Business. Mark Dale Thompson; Special Education. Dianne Thompson-Stewart; Interdisciplinary Science Studies. Carol Ann Thornton; Information and Telecommunication Systems. Diane Elizabeth Tichnell; Information and Telecommunication Systems. Maureen Mary Dougherty Tipton; Business. Thomas Toczek; Connseling. Mi Young Toh; Information and Telecommunication Systems. Charles Andrew Toler; Business. Susan Kathleen Toler; Special Education. Cara Leslie Tommer; Special Education. Nathaniel Augustus Tower; Real Estate. Mary Leah Traeger; Marketing. Karen Anne Travis; Applied Behavioral Science. Lori S. Treviño; Business. Joan Derus Trush; Marketing. Keith Stuart Turner; Business. Joan Marie Twining; Special Education. Steven Michael Ungar; Real Estate. Tonya D. Unger; Business. Lise Hope Valenta; Counseling. Laura Jane Van Vechten; Special Education. Brett Michael Vaughan; Interdisciplinary Science Studies. Holli Siegel Vaughan; Interdisciplinary Science Studies. Barb Veselich; Special Education. Duane Scott Viazanko; Information and Telecommunication Systems. Brad Howard Wagner; Real Estate. Gregory George Wagner; Real Estate. Nancy Trimm Waites; Interdisciplinary Science Studies. Derek René Walker; Information and Telecommunication Systems. Jayne Walker; Counseling. Richard Aloyisius Walker; Marketing. Jeffrey Thomas Walker; Special Education.

Laurie Ellen Walker; Special Education. Kim Nolan Wallace; Business. Donald Walsh; Information and Telecommunication Systems. Elfleta Walton; Counseling. Ling Wang; Business. Mary Kim Ward; Applied Behavioral Science. Sabrina D. Warren: Business. Carl Clifford Wartzack; Business. Verna Clark Washington; Education. James Steven Watkeys; Business. Eugie Tindal Watkins; Connseling. Robyn Douglas Watts; Special Education. Beatrice Anita Weathers; Business. David Russell Weaver; Information and Telecommunication Systems. Angela Michele Weber; Business. Peter J. Webster; Information and Telecommunication Systems. Brian Allan Wegner; Business. Deborah Lee Weinstock; Applied Behavioral Science. Brian H. Weiss; Information and Telecommunication Systems. Kristie Mulligan Welch; Special Education. John Bernard Wetzel; Business. Jenna Baker Wexler; Business. John Morgan Whitacre; Business. Bryan Charles White; Business. Charles Ridgley White; Connseling. Phyllis Suzanne White; Special Education. Rebecca Amartso White; Business. Stacey Thelma White; Education. Lori Lynn Wieder; Marketing. John Joseph Wilber; Information and Telecommunication Systems. Naomi Ornoff Willey; Information and Telecommunication Systems. Brian Joseph Williams; Information and Telecommunication Systems. Jennifer Louise Williams; Education. Andrea Abshire Wilson; Business. Brenda Wilson; Counseling. Hilary Cheryl Wilson; Education. Kathy Marie Wilson; Education. Richard Allen Wilson; Interdisciplinary Science Studies. Robert Vaughan Wilson; Information and Telecommunication Systems. Susanne R. Winakur; Business. Regina Elane Winbush-Golden; Business. Wendy Fran Winter; Applied Behavioral Science. Ann Taylor Wisner; Marketing. Barbara A. Witt; Business. Helena Elizabeth Witte-Oertel; Business. Susan R. Woodcock; Information and Telecommunication Systems. Alexander Dalton Wordsworth; Business.

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Michelle Kimberly Alexander Kathleen Alexander-Young Diane C. Allen James DeLay Anderson Deborah Sharon Anker George Allen Bachtell Laura Mary Bannon William Steven Brohawn Marisa A. Burgener Lorene Elizabeth Cannella Cindy Ann Catudal Shelly Lynn Chamness Vivian Chu

Katherine Diane Cunningham Kelly W. DePaul Shane M. Devlin Thomas Albert Duke, Jr. Rita Lynn Evans Anne Currie Fitzgerald Jennifer Lynn Ford Patricia Donoghue Forrester Lynne Michelle Frank Vicki Lynn Franz Nicole M. Frazier Lisa Berkun Freedman William H. Freeman, III Harold Earl Gaskins Daniel Todd Goldsamt Nancy Leigh Gordon Vincent M. Guida, Jr. Stephen David Hanson Denise Marie Harrison John Hartman Kevin Leo Heinlein Kristin Kaye Hermann Robert J. Jacobs Jamie Parash Kaiser Kristin Lee Kiddy Rebecca King Patricia Herbert Kuecker Jay Francis Malcynski Cathleen Rogers Maloney Jennifer Hope Mann Susan Kaye McClure Lynda Carole McCormick Van Thi-Bach McKenna C. Scott McLeod Amy Elizabeth Mechler John Edward Miller Jesse Stuart Mitchell Carrie R. Myers Amy Alcorn Nave Myrtice Lucretia Harris Nearon James Chandler Norton Carolyn Joanne Olson-Beck Nathan Paine John Steven Pisanic, Jr. Lisa Ellen Polashuk Karen Lynn Quintiere Glenn Allen Reid Melanie P. Riffle Katherine Marsh Ruben Heather M. Sachs Julie S. Selwood Jennifer Weicker Shaffer Zalman Arthur Shavell Bruce Wood Simmons David Scott Smeins

Stacy Louise Smirlock Heather Anne Smith Elizabeth L. Solak Michelle Lynne Stachura Gabriella Starita Melissa Maureen Stevens Nancy Beth Szabo Heather Moreland Tom Beth Anne Toth David Alexander Urias Keli Louise Walls Michael Bruce Watts Paula Beth Whitman Kathleen Wholey Barbara Corinthia Williams Patricia Wu Christopher H. Yancone Eleanor Grace Falk Young

Master of Administrative Science in The School of Continuing Studies

Jill Ann Berger

Masters of Drama Studies in The School of Continuing Studies

Felicia Bain Albright Walter Eugene Anderson Jeanine Antoinette DeFalco Jeanette Emma Festa Peder Michael Field Mary A. McAllister Dolores Ann Moran Arthur Mauder Pittis Michelle Jean Stoll Lianne Williamson

Certificates of Advanced Graduate Study in The School of Continuing Studies

Margaret Krupa Cirillo; *Counseling.* Alexander Paul Gerus, Jr.; *Special Education.* Carolyn Louise Wielgus; *Special Education.* Lydia J. Williams; *Counseling.*

Graduate Performance Diplomas in The Peabody Conservatory of Music

Thomas Alan Bithell. Trumpet. Hugo Bollschweiler. Viola. John Charles Caponegro. Voice. Isabel Pei-Chun Chao. Violoncello. Gabriela Cohen. .Clarinet Rory Sean Collins. Voice. Linda Diane Croskey. Voice. Fatma Daglar. Oboe. Katrin Dorn. Viola. Jenny L. Elliott. Voice. Jorge A. Gonzalez Correa. Guitar. Linda Grace Goodwin. Conducting. Cassandra Valentine Harding. Violin. Paul Richard Hopkins. Horn. Mei Jia. Violin. Margaret Mary Kane. Opera. Laura Kinsey. Voice. Chung-Ying Lan. Piano. Hye Jung Lee. Voice. Koji Muto. Trumpet. Sang Bum Park. Violoncello. Franco Platino. Guitar. Jeffrey W. Pollock. Conducting. Yoo Jung Pyun. Violoncello. Antonio Rincon. Violin. Tobie Norwood Robinson. Voice. Joowon Roh. Voice. Anne Schlossmacher. Viola. Hyun-Oh Shin. Voice. Yeo Jean Shin. Violin. Vladimir Nikolayevich Shvets. Opera. Peter Sirotin. Violin. Heather Celesta Storeng. Viola. Lukasz Szyrner. Violoncello. Ernesto Tamayo. Guitar.

Masters of Music in The Peabody Conservatory of Music

Rhonda B. AbouHana. Voice. Jonathan David Atleson. Piano. Kichung Bae. Violoncello. Ill Young Baek. Violin. Matthew William Bengtson. Piano. Leon Bernardyn. Guitar. Jay Austin Bitner, Jr. Voice. Jennifer A. Blades. Voice. Christopher Thomas Ratcliffe Bradler. Composition. Douglas I. Brown. Clarinet. Christopher Matthew Burtner. Computer Music Composition. Douglas Brandt Byerly. Music Education. Won-Young Chang. Piano. Isabel Pei-Chun Chao. Violoncello. Jin Sung Cho. Violin. Hae Sun Choi. Composition. Hung-Yun Chu. Piano. Teh-Lan Chu. Viola. Eun Ha Chung. Piano. Soo-Yun Chung. Voice. Carole Ann Cornman. Voice. Derek DeVelder. Double Bass. Holly Thomson DiClaudio. Voice. Christopher Lyn Dillon. Piano. Beth Jeannette Engle. Horn. Dawn Astrid Espinosa. Guitar and Music History. Alexandra Dodrill Gardner. Composition. Julian Lawrence Gargiulo. Piano. Beth Kershaw Graham. Horn. Lester Shields Green, Jr. Piano. Katarzyna Grenda. Viola. Nae-Kyung Ha. Voice. Jimin Ham. Violin. Michael Andrew Hammer. Piano. Catherine Hunter Hays. Flute. Ana Maria Hernández-Candelas. Flute. Michael Nathaniel Hersch. Composition. Paula Marguerite Hickey. Clarinet. Kurt B. Hoffman. Voice. Emily P. Howard. Composition. Pei-Jong Hsieh. Piano. Chia-Li Huang. Clarinet. Minn-Shenn Huang.Flute. Soo Jin Hwang. Viola. Soyoung Hyun. Violoncello. Glen D. Johnson. Trumpet. Philip Bradley Johnson. Percussion.

Hyun-Joo Kim. Piano. Jaehak Kim. Guitar. Jane Jung Shun Kim. Violoncello. Mun Hee Kim. Voice. Sungeun Kim. Piano. Tae Yon Kim. Violin. Kunihiko Komori. Percussion. Beom-Suk Lee. Composition. Byung-Soon Lee. Voice. Ji-Yeon Lee. Violin. Jonathan Leshnoff. Composition. Wei-Lung Li. Piano. Ying Li. Fhute. Ling-Guang Lin. Voice. Michelle Tze-Yi Lin. Violoncello. Wendy Beth Linkin. Computer Music Research and Technology. Robert Kipp Lunt. Trombone. Gina Maria Mael. Viola. Erica Susan Godshall McClellan, Piano, Karen Elaine Meranda. Clarinet. Hea-Kyoung Mo. Piano. Wha Jung Mo. Violin. Peter Christof Murphy. Voice. John R. Nardolillo. Conducting. Dae San No. Voice. Seung-Hee Noh. Horn. Robert Charles Novak. Percussion. Nyenpu Byrl Nyomo. Voice. Kaliya Okuri. Double Bass. Jong-nam Park. Viola. MinAh Park. Horn. Ralitza V. Patcheva. Piano. Michele Rae Paynter. Music Education. Ju-Yi Peng. Violin. Linda Helen Pereksta. Flute. Rebecca Magdalen Polgar. Trumpet. Nada Radulovich. Violoncello. Ann Marie Reddy. Harp. Angela Lynn Revis. Computer Music Performance and Concert Production. Tobie Norwood Robinson. Voice. SoYoung Ryoo. Piano. Karen Sams-Falk. Piano: Ensemble Arts. Allan Jay Santos. Double Bass. Carolina Sarmiento. Piano. Ying-Shu Sheu. Voice. Yoon-Won Angel Shin. Piano. Pierre Simard. Conducting.

Susan Brace Sinander. Music Education.
Elena Solanes. Violoncello.
Jamorn Supapol. Piano.
Mabel Pui Yee Tang. Violin.
Frances Leah Tate. Flnte.
David Bennett Thomas. Composition.
S. Forrest Tobey. Computer Music Performance and Concert Production.
Megumi Watanabe. Piano.
Mihori Yagi. Piano.
Chu-Wen Yang. Piano.
Chun-Ju Yen. Piano.

Masters of Science in Nursing in The School of Nursing

Deborah Jean Baker Charlene Adele Baumgardner Virginia Anne Behan Ann Elizabeth Beezlev Loriane K. Black Karyn Jean Brundige James Edward Buzzard Christina Louise Cafeo Chervl Renee Dennison Simon Joseph Freyou Jo-Ann Hannah Friia Christine Donna Garner Stacey Fern Gordon Nancy Granados Dennis Peter Kuzmickas Robert Kevin Mallinson Suzanne E. Marvin Jovce Margaret Maygers Janet Dwight Morrison Donna Lynne Nicholson Nancy Marie Opfer Carolyn Bryant Payne Marilyn Schoenthal Plateau **Charles Phillip Raines** Dione Catherine Rhodes Elaine Kathryn Russell Anna Maria Sam Lucia A. Schliessmann Teresa Ann Sweeney Mary Elizabeth Vidunas Robin Lee Wantz Blossom Dawn Wiedmeier

Masters of Science with a major in Nursing & Master of Public Health in The School of Nursing

Alice Marie Cahill Beth Ann Phillips

Masters of Science in The School of Hygiene and Public Health

Joel Stephen Breving; Population Dynamics. Jennifer A. Couget; Molecular Microbiology and Immunology. Jessica Marie Gotay; Population Dynamics. Francis William Grzywacz; Population Dynamics. Clayton Dale Harro; International Health. Sharon Elaine Henderson; Biochemistry. William Rawlingson Howard, Jr.; Environmental Health Sciences. Steven Kenneth Kim; Molecular Microbiology and Immunology. James Maxwell Lai; Population Dynamics. Li-Ching Lee; Mental Hygiene. Ti-Kuang Lee; Epidemiology. Keya Sau; International Health. Mohamed Ahmed Shabooti; Epidemiology. Larry Wayne Thrower; Biochemistry. Pilar Tijerina; Biochemistry. Jeff Geehuan Wang; Health Policy and Management. Hong Zheng; Molecular Microbiology and Immunology.

Masters of Health Science in The School of Hygiene and Public Health

Kristen Jean Aleksa; Health Policy and Management. Health Policy. Yutaka Aoki; Biostatistics. Parminder Singh Atwal; Mental Hygiene. Jason David Barbour; Maternal and Child Health. Beata Maria Barci; Health Policy and Management. Behavioral Sciences and Health Education. Michon Béchamps; Health Policy and Managemeut. Health Policy. Amy Wisnosky Belote; Health Policy and Management. Behavioral Sciences and Health Education. James B. Bender; Health Policy and Management. Behavioral Sciences and Health Education. Christopher John Bengson; Health Policy and Management. Health Policy. Allison Ilene Better; Maternal and Child Health. Uttara Bharath; International Health. Jill Sarah Brown; Health Policy and Management. Health Finance and Management. William Douglas Carroll, III; Health Policy and Management. Health Policy.

James A. Chaloupka; Environmental Health Sciences. Nicole Olivia Cheetham; International Health. Michael D. Chen; Health Policy and Management. Health Finance and Management. Wendy Lun-Yu Chen; Maternal and Child Health. Daranee Chewaproug; Molecular Microbiology and Immanology. Johnson Yu-Neng Chiu; Molecular Microbiology and Immunology. William Clinton Christeson; Health Policy and Management. Behavioral Sciences and Health Education. Alvina Kai-mund Chu; Molecnlar Microbiology and Immunology. David H. Chung; Health Policy and Management. Health Finance and Management. Domin Chung; Health Policy and Management. Bebavioral Sciences and Health Education. Lisa Marie Colella; Health Policy and Management. Health Policy. James Edward Conforti; Health Policy and Management. Health Finance and Management. Sylvia Nan Crone; Molecular Microbiology and Immanology. Kelly Ann Curran; Population Dynamics. Theresa Lynn Cutler; Environmental Health Sciences. Environmental Health Engineering. Christopher Sean Daly; Environmental Health Sciences. Industrial Hygiene and Safety. Mark D. Danese; Biostatistics. Gregory Bruce Diette; Epidemiology. Clinical Epidemiology. Anita Rashmi Dixit; Epidemiology. Chronic Disease Epidemiology. Jennifer Lauren Dunbar; Health Policy and Management. Health Policy. Amy Kathryn Englund; Health Policy and Management. Health Finance and Management. Anne Elizabeth Esposito; Health Policy and Management. Health Policy. Kim Yvette Evans; Health Policy and Management. Health Policy. Faisal Faruque; International Health. Emily Katherine Fatula; International Health. Joanne M. Fishman; Health Policy and Management. Health Finance and Management. Marlette Emma Joan Franklin; Population Dynamics. Reproductive Biology. Julia Friedman-Peremel; Mental Hygiene. Lorrie Joan Fritz; Health Policy and Management. Bebavioral Sciences and Health Education. Laura Christine Gaylord; International Health. Manely Ghaffari; Population Dynamics. Reproductive Biology. Lea Sidra Gifford; Mental Hygiene. Nina Renee Goodman; Health Policy and Management. Behavioral Sciences and Health Education. Benjamin Morris Greenberg; Molecular Microbiology and Immunology. Saralynn Greene; Maternal and Child Health.

Nemat Shahrukh Hajeebhoy; International Health. Jennifer Ann Harris; International Health. Jesse David Heier; Health Policy and Management. Health Policy. Jordan Robert Herget; Health Policy and Management. Health Finance and Management. Taria Bettina Herz; Health Policy and Management. Bebavioral Sciences and Health Education. Michele Susan Heuer; Molecular Microbiology and Immunology. Linda Marie Hooper; Population Dynamics. Blake Edward Howard; Health Policy and Management. Health Finance and Management. Ching-ya Huang; Health Policy and Management. Health Finance and Management. Hahn Huang; Epidemiology. Infectious Disease Epidemiology. Stephen Hull; Health Policy and Management. Health Policy. Mark David Isenstein; Environmental Health Sciences. Industrial Hygiene and Safety. Amynah H. Janmohamed; International Health. Maria Janette Jerardi; International Health. Ellen H. Jo; Health Policy and Management. Health Policy. Heather Lynn Jones; Molecular Microbiology and Immunology. Isaac Bryan Jones; Population Dynamics. Reproductive Biology. Xiongwei Ju; Biostatistics. Ghazala Akbar Ali Kabani; Health Policy and Management. Health Policy. Julie Michelle Barth Kacergis; Environmental Health Sciences. Industrial Hygiene and Safety. Sonal H. Kamani; Health Policy and Management. Health Policy. Kelly B Kamm; Molecular Microbiology and Immnnology. Myungsa Kang; Biostatistics. Erica Mateer Kanzinger; Health Policy and Management. Health Policy. Ingrid Theresa Katz; International Health. Anne Baber Kennedy; Health Policy and Management. Health Policy. Omar A. Khan; Molecular Microbiology and Immunology. Salwa Khan; International Health. Hyojin Kim; International Health. Michelle Sandra Kitchman; Health Policy and Management. Health Policy. Konstantinos T. Kohilas; Molecular Microbiology and Immunology. Chie Kojima; Epidemiology. Clinical Epidemiology. Demetrios James Kutsogiannis; Epidemiology. Clinical Epidemiology. Peter Ronald La Count; Health Policy and Management. Behavioral Sciences and Health Education. Ruby Wai-Han Lam; Health Policy and Management. Health Policy. Teri C. Larson; Health Policy and Management. Health Policy. Edward Chun-Yin Lew; Molecular Microbiology and Immunology. Chun-jung Liao; Epidemiology. Human Genetics/Genetic Epidemiology.

Iennifer Kuev Lin; Biostatistics. Wei Chi Lin; Epidemiology. Infections Disease Epidemiology. Susan Ju-Ting Liu; Epidemiology. Clinical Epidemiology. Ann Therese MacIntyre; Health Policy and Management. Health Policy. Farhan Majeed; Population Dynamics. Reproductive Biology. Ann M. Manning; Health Policy and Management. Behavioral Sciences and Health Education. Edward A. Margolin; Population Dynamics. Reproductive Biology. Amy Rebecca Martin; Maternal and Child Health. Tazim S. Mawji; International Health. Laura Nicole McCallister; Population Dynamics. Michael Anthony McGinley; Environmental Health Sciences. Industrial Hygiene and Safety. Robert Lawrence McNamara; Epidemiology. Clinical Epidemiology. Christina Marie Meyer; Epidemiology. Chronic Epidemiology. Amelia Marie Mikula; Population Dynamics. Reproductive Biology. Ellen Altman Milhiser; Health Policy and Management. Health Policy. Amy Engerman Moody; Health Policy and Management. Behavioral Sciences and Health Education. Heinz Nagel; Health Policy and Management. Health Policy. Anahid Maria Pahlawanian; Population Dynamics. Reproductive Biology. Christina Catherine Pallitto; International Health. Jeffrey Tai Pan; Molecular Microbiology and Immunology. Paula Michele Panissidi; Health Policy and Management. Behavioral Sciences and Health Education. Theodora Dorina Papageorgiou; Mental Hygiene. Lina Prabhakar Parikh; Population Dynamics. Annmarie Pascale; Health Policy and Management. Health Finance and Management. Christina Sharon Patterson; Health Policy and Management. Health Policy. Brian Clifford Pearson; Health Policy and Management. Health Finance and Management. Andrea Louise Pusic; Epidemiology. Clinical Epidemiology. Lara Rabiee; Health Policy and Management. Health Policy. Margie Ellen Rauch; International Health. Marie Cook Reed; Health Policy and Management. Health Policy. Hamid Rehman; Environmental Health Sciences. Radiation Health Sciences. Rick Ho Roe; Environmental Health Sciences. Laurie Ellen Rosenberg; Health Policy and Management. Behavioral Sciences and Health Education.

Sanjay Kumar Saha; Health Policy and Management. Health Finance and Management. Amy Lise Schiffman; Environmental Health Sciences. Industrial Hygiene and Safety. Daniel John Schreiner; Health Policy and Management. Health Policy. Joshua Jacob Seidman; Health Policy and Management. Health Policy. Robin Mary Shank; Population Dynamics. Reproductive Biology. Tejal K. Sheth; Health Policy and Management. Health Policy. Lucy Wing-Yee Shum; Mental Hygiene. Sarah Pauline Silverman; Health Policy and Management. Behavioral Sciences and Health Education. Anita Rama Sinha; Health Policy and Management. Health Finance and Management. Beverly Helene Ewing Smith; Health Policy and Management. Health Policy. Susan Aline Smith; Molecular Microbiology and Immunology. Gregory David Stevens; Health Policy and Management. Health Policy. Kellie Lynn Stewart; Population Dynamics. Niharika Naresh Suchak; Epidemiology. Clinical Epidemiology. Sanjukta Sur; Mental Hygiene. Yueh-Ming Tai; Mental Hygiene. Happy Kuy-Lok Tan; Health Policy and Management. Eugene Wayne Taylor; Mental Hygiene. Neena Fairwell Thomas; Maternal and Child Health. Andrew Luci Thorne-Lyman; International Health. Lauren Kim Tran; Health Policy and Management. Health Finance and Management. Circey Trevant; Environmental Health Sciences. Patrick Um; Population Dynamics. Reproductive Biology. Elizabeth Kemmer Vincent; Health Policy and Management. Health Policy. Judy Kiang Wang; Population Dynamics. Reproductive Biology. Kimberly Winkler; Environmental Health Sciences. Industrial Hygiene and Safety. Wesley Anton Winn; Health Policy and Management. Health Finance and Management. Brandon Claxton Wood; Health Policy and Management. Health Finance and Management. Alexandra Susan Jennifer Wooster; Health Policy and Management. Health Finance and Management. Dorothy Elaine Worthy; Health Policy and Management. Behavioral Sciences and Health Education.

Masters of Public Health in The School of Hygiene and Public Health

Saade A. Abdallah Mahmoud Abdelmagied Annie Abraham Meena Robin Abraham Abdinasir Mohamud Abubakar Michael Richard Adams Nabeela Ali Mona A. Almodwahi Mary Susan Anderson Alison Ansher Ifeyinwa Anyaogu Francisco A. Armada-Pérez Parmeeth M. Atwal Omar Muhammed Ali Awadh Mary Allison Barlow-Bova **Beatrice Barret** Eleanor Lorraine Bell Monique Moina Berces Amelia Joleen Birney Meija Lucia Blok Dittakarn Boriboonhirunsarn Rachel Siegel Boxman Felicity Turner Boyd Susan Bradley Ieannette Gabrielle Breugelmans Arlynne Brown David George Bunker Heather Burke Gale R. Burstein Dale Robin Burwen Kathleen Marie Cardona Claire-Lise Chaignat Annie Brigitte Chalfine Hsin-Ko Chang Ken-Yu Chang Cheng-Shing Chen Ching-Hsuen Chen Dorothy Yun-Wen Chen Hsin-Hui Chen Hui-Ru Chen Jin-Tang Chen Jing-Chuan Chen Ching-Yu Cheng Hung Kwok Cheung Jung-Fang Chi Yi-Hsiung Chiang I-Tung Chien Julia Cara Chill Dawn Suzanne Chin-Quee Shyan-Min Chiou Misun Choi

Teresa Man-Yan Choi Yu-Jen Chu Amy Stine Collins Doreen Linda Collins Dianne M. Conte Keary A. Cope Karin Angelika Cox Janet Kimberly Dale Sayantani DasGupta Garvin Henderson Davis Griffin Leroy Davis Joan Marie Dawson Henri DeLatour Kay Ann Dellinger Susan Maude DeSipio Eleni C. Digenis Lisa Beth Dixon Megan Drennan Caroline M. Dreweck Gwen DuBois Fabian Oby Eluma Lisa Marie Ensz Ugo Anthony Ezenkwele Linda Farley Catherine J. Fischer Giulio Formoso Daniel Earl Frederick David S. Friedman Bonnie Jean Gaborek Sarah Young Gessner Desbele Ghebreghiorghis David Black Gillis Sharon Michelle Gordon Valery Maria Gordon Todd W. Gress Jeanne Marie Grillo Frank Dunbar Groves Rachna Gupta H. Holly Hackman Jonda C. Hapner Robert Charles Harris Giraldo Cynthia Louise Heins Joy Melissa Horner Jolene Marie Houser Theresa Marie Howald Te-Kuei Hsieh Yung-Feng Hsieh Wen-Liang Huang G. Russell Huffman James Raymond Hughes Kung-Chang Hwang Mei-Nah Hwang Kanak S. Iyer Mark George Janczewski Diann Marie Johnson Kami Kandola

Tomoko Kanto Susan Katz John Harold Kempen Sean David Kennedy Barbara Maria Helena Kerstiëns Pierre H. Kiami Brigid Relley Killelea Eun Kyung Kim Moriyo Kimura Amy E. Klamberg Judy Beth Kleppel Kevin B. Knopf Daniel Koch James Gerard Kublin Karen Simpson Kuehl Chen-Yi Kuo Yiu-Yu Kuo Carol Elaine Kupperberg Christopher Chiyong Kwon Rondall K. Lane Lisa-Jane Lauter Clara Ann Lee Hee-Choon Samuel Lee Heui-Min Lee Shawn S. Lee Lin Li Yin-Pan Liang Ker-Cheng Lin Ko-Hsun Lin Ting Lin Sarah Anita Lister Anthony C. Littrell Chin-Hsien Lo Joseph Craig Longenecker Eric Thomas Lund John Reed MacArthur Vivek Tim Malhotra Rebecca A. Malouin Jeanne McCauley Marybeth McCauley Megan Mary McHenry Robert Stanley McKay Milissa A. McKee Jed Douglas Meline Patricia Jeptoo Mengech Amanda Anne Merwin Jamal Mikdashi Bahar Mikhak Michael J. Miller Jessica B. Milman Mohammad Waqar Khan Mohmand Sylvia Elizabeth Morris Karen Lee Morrissette Saba Moussavi

Boris A. Mueller Eric Michael Munro Biziwick Sambani Makani Mwale Nancy E. Nachbar Bontlogile Linda Mheedinyana Ndaba Samson Kipkurgat Ndege Shannon Colleen O'Barr Kathleen A. O'Connor James O'Malley Maureen A. O'Neill Esther Ocuin Colin Ohrt Myo Oo Ivan L. Ossma Erica Catherine Ozanne Cindy L. Palace Chi Pan Anuradha Paturi Devon Corcia Payne Sybil B. Pentsil Pajongsil Perngmark Jamie J. Perry Geoffrey Deane Peterson Linda Schechterle Podosek Andrew Sheung Wah Quon Md. Hafizur Rahman Voahangy Nombànahery Ramahatafandry Malla Rao Luke Duminda Devapriya Ratnasinghe Eve Annette Razzetti Deborah Andrea Reichmann Shoshana Reshef Joanne Love Rhoads Gary A. Rhule Arun R. Risbud Iesús Roche Maria del Rosario Sánchez Pérez Elisabeth Santigli Jeanne Marie Santoli Robert Walter Scherpbier Clara Charlotte Schlaich Claudia Schmidt Mohammad Habibur Rahman Seraii Thomas Francis Sheridan Shiow-Fu Sheu Leeann Ruth Shiveley Horng-Jeng Shyu Jennifer A. Siemon John Young Song Sudhir Srivastava

Philip D. St. John Justina Larsen Starobin Carmen Sumaya Gene Yong Sung Janet M. Sung Jennifer Faith Sussal Joyce Shao Fen T'ang Pamela Patricia Tabb Yasuvoshi Takamatsu Junko Tamaki Frank Otisamala Taulo Geoffrey Anang Tettevfio Michel J. Thieren Benjamin Albert Thompson Franciscus Jacobus Waltherus Timmermans Rudolf Nwanyela Titanji Ching-En Tsai Kuang-Chao Tsai Yueh-Fu Tsai Lobsang Tsering Yung-Hung Tsou Berna Diclenur Ulug Veronica Victoria Urdaneta Sidik Utoro Laura Joy Damschroder Vancouver Peter Wavne Vaughan Pierre Nigel Denis Vigilance Jimmy Conrad Villiard Walter Harold Wade Phillippa Jane Walmsley Meghan Mary Walsh Sophia Wamsley Chris Angelo Washington Paul Joseph Weidle Michael Weiner Carol Whitman Joseph Gerard Williamson Whitney Perkins Witt Karl D. Wittnebel Leslie Ellen Wolf Adam John Wolfberg Tien Yin Wong Violet Ryo-Hwa Woo Karen Gerre Woodson Peggy Pei Ying Wu Yiling Xu I-Yuan Yang M. Ümit Yazman Wanda M. Yazzie Christian Phillip Yoder Suzanne K. Yurk Peter Zandi Yvonne Louise Zeckel Negussie Zerihun

Masters of International Public Policy in The Paul H. Nitze School of Advanced International Studies

Kozue Kay Abe-Nagata Peter R. Auer **Jack Bar Giora** Michael Carucci Luis Ariel Castillo Matthew Jackson Cheney Christopher Ciccolo Juan O. Cruz Katherine Anne Downs Khalid Durrani Francisco Echeverri-Lara Regina L. Espenshade William Kimball Frymoyer, Jr. Arif Harahap Ha Hong Hai Tracy Hoeffel Ken'ichi Kawamoto Kazi Imtiaz Le Huy Hoang Chung Youl Lee Iunhua Li Paul Nachtsheim Anita Näsström-Ekman Nguyen Ba Hung Umio Otsuka Michael Christopher Perkinson Judith Plummer William F. Pore Thomas C. Rodgers Linda Feldmann Roe Philip C. Rudder Randa I. Salti Taryn Louise Seyer Abigail Adams Spring Denise Anne Vaillancourt Stephen Fredric Vogel Vu Ho Atsushi Yamakoshi

Masters of Arts in International Affairs in The Panl H. Nitze School of Advanced International Studies

Madhavi Bhatt Maria Grazia Boccia Robert Bonte-Friedheim Nadia Costantini Oda Scheuch

Masters of Arts in The Paul H. Nitze School of Advanced International Studies

Katherine Janel Almquist Julianne Altieri Deborah Ann Louise Alves Cheryl Christine Anderson Carmen A. Aquerreta Ferraz Frédéric Asseline Phillip N. Assis Babettli Azzone Tamara Olena Babiuk Candace Renee Bacon Ellen Johanne Bakke Thomas J. Baks Savas Safak Barkcin Christopher Barkidjija Michael William Beares Alison Ashby Beck Brian Michael Bell Stanley J. Beltramea James Clark Berner Michele C. Bertelli Elisabeth Biering Sewit Bocresion Kjersti Borud Andresen Allison Lorraine Bouchat Allison Goodwin Boyer Ray C. Brandon H Birgit Maria Braunwieser Marcie Lynn Brecher Kerry Therese Breen Matthew G. Breman Lori Lee Broglio Heidi Michele Brooks Nolan Joseph Browne Andrew Charles Browning Iason E. Bruder Blake Marlowe Burke Mark Ryan Burles Paul W. Butler Gregory William Campbell Benjamin Cade Canavan Gabriel Cardona-Fox Deborah G. Caul Carl Cederstrom Kristen Lee Chang Nai-chih Chang Melissa Justine Chauvin Ruslan Vladimirov Chilov Christopher Struthers Chivvis Matthew David Christ Iulius C. Clark Ir. Maria Coello de Llobet

Samuel Devereux Coffin William Bruce Comer III Rachel Elizabeth Cononi Sally-Anne Corcoran A. Heather Elise Covne Russell Carpenter Crandall Xavier Crombe Nicola Franziska Daniel Ann Marie Danielson Jamieson Burr Davies Franca Maria Davila Gregory Scott Davis Christopher Roy Day Deepika Daval Phillip Nelson de Assis Saskia De Smet Kiril Deltchev Perry Francis DeLuca Vanessa Dick Natascha Christina Dixon Aaron David Dolgoff Alexandra Doroshenko Frank Scott Colin Douglas IV Cécile Dubois Raymond Gregory East Husam El-Khatib Andrea Marie Erdmann Matthew G. Ferchen Helen Fessenden Lee Alexandra Filson Deborah J. Foster Jennifer Beth Friedman Luca Pietro Frontini Kentaro Fujimoto Joanna Gajewski Juan Ignacio Garcia De Motiloa Taher Gilbert Gargour Mark Cunha Bueno Garman Elizabeth Faison Gentry Stacy L. Gery Mark E. Giancola Thomas Gilles Cory Vincent Gnazzo Lara Michele Goldmark Lyle J. Goldstein Laurie M. Golnick Mark A. Gragg Maria Louise Josephine Grandinson Richard Greco Jr. Fulton Mills Gregg Catherine Anne Guarraia Yoko Hagiwara Wendy Foster Halbert Michael Haney

Renae Ditmer Hazle Patricia Anne Heffernan John Christopher Hellmann Monika Hencsey Tracy D. Henry David Frederick Heyman Julia Frances Hibarger Jennifer Luke Hills Thomas Hilse Chi-Wen Ho Amy Bich-Ngoc Hoang Chelsea Marilyn Honderich Ever Elizabeth Horan Rattany Hort Elizabeth Johns Howard Mimi M. Huang Régis A. Huf Timothy John Huson Meiko Imai Go Ishihara Hiroyuki Ito Lynn Jang Owen N. C. Johns William Todd Johnston Katherine Joseph Nicholas G. Kamp Lawrence F. Kaplan Alexander I. Kasanof Noha Riad Kasrawi Jennifer Lee Kaukas Peter Justin Kirk Gorm David Kirsch Veronique Lanthier Edith Laszlo David Michael Layton Cynthia Anne Lazo Janet Lynne Leeson Norvin Eldon Leong Sheri-Ann Levy Christina Yi-Ting Lin Christine Joan Lindsey Christopher J. Lombardi Juan Andres Lopez-Silva Raimund Magis Lisa Manning Laudico Jacqueline McFadyen Mark Alexander McGee Catherine Crane McKalip Stephane Mercier Patricia Ann Mitchell Afshin Molavi Joaquin Molina Martinez-Lozano Douglas Campbell Mollenauer Seiko Morita

Jennifer Anne Morrissey Jade Mei-Wan Moy Nthenya R. Mule Iris Mwanza Stephen A. Myrow Akihisa Nagashima Kozo Nakatani Nguyen The Cuong Carmen Niethammer Nicole Yvette Nolan Timothy Haskell Nourse Tana L. Olson Brett M. Orlando Yuka Otohata Thomas R. Palumbo Cynthia Lee Flanagan Pascale Jonathan Mark Pascale Clara Pasquali Toledo **Camille Pecastaing** Torbjoern Pedersen **Pia Peeters** MarLynn Perna Mary Anne Philippakis R. M. Phimister Camelia Maria Picó Susannah L. Pierce Wayne Robert Pieringer Elsa Pilichowski Ernesto Pittaluga Mora Filomena Daniela Pizzuto Lise Catherine Platou Patrizia Poggi Sandra M. Polaski Joy Barbara Portella Jo-Ellen Pozner Eva B. Pregon Rachel Anne Quick Nadeem Qureshi Catherine Rand Adrian Rausche Jose L. Ravano Buford Scott Reid Kurt Edward Reiman Carlos Felipe Robayo-Duque Philip S. Robertson Jr. Eduardo de Moraes Rodrigues Martin Rossmann George Paul Rudman Patricia Kathleen Ryan Mikhail Ryzhkov Mariko Sakai Freeman Murray Sanderford II Lisa Sanderl Karel A. E. Schaepman Anja Schmidt

Holger Schmidt Lowell Hays Schwartz Daniel J. Seals Michael Dean Sessums Clarence Alexander Severens Elizabeth Beaumont Shelton Gary Richard Shenk Peter Michael Sherman Katrina J. Sherry Toru Shimoda Makiko Shinoda Jennifer Beth Shipley Matthew Saul Siegel Jeffrey D. Sigal Nancy Elizabeth Simmons Andrea Christina Simpson Jason Kennedy Singer Jyoti Singh Franz Smola Chone Sophonpanich Kay Storck Bruce W. Sullivan John Sulski Kee-Hua Sun Darius Antanas Suziedelis Eric Sylvers Gillan Alexandra Taddune Michiko Taki Karissa L. Taylor Todd Darrow Thorner John P. Treadwell, Jr. Joseph Gregg Tripoli Cecilia Turriago Perez Stewart Allan Uretsky John Thor Vaaler Johannes Fransiscus van Geloven Ian Vasquez Philippe Vasset Luis Velasco Alvarez Deborah A. Vélez Walter Eric Weaver Blanche E. Weiner Abbey S. Weinstein Andrew Wells David Herman Wexley Matthew Wheelock Elizabeth Ann Winston Kristin Ann Wise Alice Jung-Hye Wohn Stephanie Ingeborg Wolters Iennifer Wrav Sahin Yaman Albert Abraham Zbily Pablo Zoido Lobatón

Masters of Arts in The School of Medicine

- Rachel Bedno Robinson; *Medical and Biological Illustration*. HIV/SIV Encephalitis: A Multilevel Visual Reconstruction of Fluid and Cell Pathways.
- Melissa Nacionales Blomberg; *Biochemistry, Cellular and Molecular Biology Training Program Biological Chemistry*. O-GlcNAc Transferase: A Novel Enzyme That Dynamically Glycosylates Nuclear and Cytosolic Proteins.
- Wen-Min Chao; *Medical and Biological Illustration.* 3-D Pelvic Floor Musculature From the Visible Human Male: Striated Urethral Sphincter and Levator Ani.
- Erica Himmel Denison; *Medical and Biological Illustration*. A Mutable Three-Dimensional Computer Model of Normal Outflow Tract Septation and Great Artery Development in the Human Embryonic Heart.
- Graham Thomas Johnson; *Medical and Biological Illustratiou.* 3-D Applications in an Archetype for Education: A Multimedia Computer Frog Dissector with Accompanying Plastic Model.
- Aline Fang-Ling Lin; *Medical and Biological Illustration*. A Three-Dimensional Model of Early Nodal Changes in the Acute Motor Axonal Neuropathy Pattern of the Guillaine-Barré Syndrome.
- Michael S. Linkinhoker; *Medical and Biological Illustration*. Anatomy of the Manus and Antebrachium of the Nine-Banded Armadillo (Xenarthra: Dasypodidae: Dasypus novemcinctus).
- Elizabeth P. Mansfield; *Biochemistry, Cellular and Molecular Biology Training Program - Pharmacology and Molecular Sciences.* The Lack of Correlation Between Histone H4 Acetylation and Nuclear Swelling Observed in the Prostatic Epithelial Cell Nuclei of Androgen Treated Castrate Rats.
- Julie Kathryn Parker; *Pharmacology and Molecular Sciences*. Regulation of the Myc Family Genes and Function of the Myc Family Proteins.
- J. Dora Schaefer; Biomedical Engineering.
- Karen Etta Miller Stump; *Biochemistry, Cellular and Molecular Biology Training Program - Molecular Biology and Genetics.* Interaction of Host and Viral Proteins in Lentivirus Attachment and Fusion.
- Heather Emily Fitzgerald Takahashi; *Biochemistry*, *Cellular and Molecular Biology Training Program - Molecular Biology and Genetics*. Sonic Hedgehog's Zinc Hydrolase is not Required for Signaling.
- Elaine Ellen Thompson; *Neuroscience*. Reconstitution and Characterization of the Peripheral Benzodiazepine Receptor.
- Michaela Marie Viering; Biochemistry, Cellular and Molecular Biology Training Program - Cell Biology and Anatomy. Model Proteins Designed to Study Retrieval Pathways in Golgi Localized Proteins.

Masters of Civil Engineering in The G.W.C. Whiting School of Engineering

Jonathan Foster Hyde Frederick John Kelso Michael Shabla Nathan Robertson South Xiaohui Wu

Masters of Environmental Engineering in The G.W.C. Whiting School of Engineering

Neil Hurl Amwake Arthur Mikael Antonelli Yves Nkwenti Azie Martha Elizabeth Bailey Michael Bradley Berman Meesha Monise Bond David L. Brown Frederick Joseph Carey Elizabeth Anne Cunniff Doron Daniel Fields James Jay Gawryszewski Aileen Reyes Gibson Tina Marie Gilley Glenn C. Hourahan Brad Eldridge Hutchens Lois Marie James Ronald Lee Jones Kerri Ann Kavanagh Donna Lynn Kreis John Henry Kumm Joel David Leeman Rodney Alan Lehman Liza Li Yee Liew Ming Lu Teresa Elaine Lustig Russell Edward Marsh Walter Marx Charles Richard Painter Jung-Rern Pao Stacy Jeanne Passaro Daniel Stephen Pazdersky Kostantinos Michael Photinakis William Winfield Roush Joseph Dominick Ruccolo Marshall Neil Rudo Hunaid Sulemanji Karen Ann Thorpe Anthony Watkins George Forrest Wunder

Masters of Materials Science and Engineering in The G.W.C. Whiting School of Engineering

Rebecca Joann Derro Craig Allen Matzdorf

Masters of Mechanical Engineering in The G.W.C. Whiting School of Engineering

Benjamin Philip Baker James Todd Campa Michael Daniel Fennell Shawn Michael Funk Peter Eugene Heisler Matthew Edward Pallatto Don Q. Thach Thomas Arthur Tucker, Jr. James Michael Tully

Masters of Science in The G.W.C. Whiting School of Engineering

Thomas H. Abraham; Computer Science. Donald J. Acosta, Jr.; Computer Science . Dennis Albaijes; Electrical Engineering. James Edward Aldridge; Computer Science . David Ross Allen; Computer Science . Rodney Allen; Computer Science . Edward Guy Amatucci; Technical Management. Dimple Indrajit Amin; Electrical Engineering. Renitalynette Kuuipo Anderson; Technical Management. Thomas Francis Anderson; Computer Science . Christopher N. Andrews; Computer Science . James Martin Annulis; Computer Science . Christopher Robert Appleman; Electrical Engineering. David Leo Arlen; Technical Management. Robert Marshall Avjian; Electrical Engineering. Maureen Angela Bageant; Systems Engineering. Chiung-Hua Bai; Computer Science . Mehdi Bakhtiari; Electrical Engineering. Mark Edward Balkovich; Geography and Environmental Engineering. Philip Anthony Balles; Electrical Engineering. Kevin Michael Ballou; Electrical Engineering. Shouvik Roy Bardhan; Computer Science . William James Barnds; Computer Science . Lisa Marie Lunsford Bartusek; Electrical Engineering. Martin J. Bashore; Computer Science . Behzad Bastani; Computer Science . Edward Glenn Bauer; Computer Science . Raymond Harold Baust; Computer Science . Patricia Margaret Baxter; Computer Science . Richard Donald Beers, Jr.; Computer Science . Brian J. Beller; Applied Physics. Richard R. Beller; Applied Physics. Porfirio Beltrán; Applied Physics. David A. Bement; Technical Management. Angelo R. Bencivenga; *Electrical Engineering*.

Matthew John Bennett; Electrical Engineering. Timothy Eugene Berger; Computer Science . George Francis Beronio; Systems Engineering. Nicholas F. Bertolini; Electrical Engineering. Patrick John Bettinger; Computer Science . Sunnila Bhagi; Computer Science . Keith James Biesecker; Electrical Engineering. David Alan Bilodeau; Electrical Engineering. James Williams Blanchard, III; Technical Management. Brett Bobley; Computer Science . Henry Charles Boshane; Computer Science . Daniel Paris Bounds; Computer Science . Richard Lawrence Bourgeois; Electrical Engineering. Elizabeth Epps Bowers; Environmental Engineering. Ralph Tzion Brenner; Computer Science . Michael John Brewer; Computer Science . Keith Leon Brown; Technical Management. Lawrence Michael Brown; Computer Science . Christopher William Brunn; Technical Management. James Judah Buchwalter; Computer Science . David Alan Buffington; Technical Management. Diem Uyen Nguyen Bui; Computer Science . Edwin Lewis Butler; Technical Management. Alan Buzacott; Computer Science . David Patrick Calhoun; Electrical Engineering. Federico Carbonell; Computer Science . Clarence Eugene Carpenter, Jr.; Technical Management. Walter Leonard Carper, III; Technical Management. Raymond Dean Carr; Electrical Engineering. Forrest Kuang Chung Chang; Computer Science . Ming-Chi Chang; Computer Science . Lynn Marie Chapman; Computer Science . Robert Donald Charles; Computer Science . Lisa Maria Cherry; Computer Science . Eddy Ming Cheung; Computer Science . Kathy W. Ching; Computer Science . Hong Sol Cho; Electrical Engineering. Lai C. Cho; Computer Science . Junghoon Choi; Geography and Environmental Engineering. Mary Frances W. Christ; Computer Science . Jack Sham Chu; Technical Management. Paul Richard Ciaravella; Electrical Engineering. Michael Ciemian; Electrical Engineering. Jeffrey A. Ciocco; Environmental Engineering. Deborah A. Clancy; Computer Science . Roger W. Clapp, III; Electrical Engineering. Michael Andrew Clemens; Geography and Environmental Engineering. David Lee Cohen; Computer Science .

Douglas Michael Cohen; Computer Science . Paul Bryan Connor; Computer Science . Janel Lee Conrad; Environmental Engineering. Angela Sigmund Converse; Applied Mathematics. R. Ogden Copeland; Environmental Engineering. Carl Andrew Corbo; Electrical Engineering. John Joseph Cornyn; Electrical Engineering. Matthew Drury Cotton; Environmental Engineering. John E. Critz; Technical Management. Gary Charlton Cubbage; Computer Science . Alan Patrick Cudmore; Computer Science . John Howard Cunningham; Electrical Engineering. Tami Lu Curtner; Computer Science . Theresa Lynn Cutler; Environmental Engineering. Edward Stanley Cybert; Technical Management. Randy James Dean; Computer Science . Thomas John DeBoissiere; Technical Management. Tomiko Maria Debole; Applied Mathematics. James Lindley DeCamp; Electrical Engineering. David Armond DeFazio; Computer Science . Edward Schley Delaplaine, II; Applied Physics. Michael Guy Dennis; Computer Science . Carol R. Dennison; Technical Management. Robert James Densock; Computer Science . Stephen Vincent DePalo; Systems Engineering. Ama Antwi Derkyi; Computer Science . Alpa Sumantrai Desai; Electrical Engineering. Steven P. Dirlik; Applied Physics. Hai T. Dong; Electrical Engineering. Margeret Ethel Dotseth; Computer Science . John R. Doughty; Environmental Engineering. Laura Lynn Downey; Computer Science . Glenn W. Dudley; Computer Science . Douglas John Dunham; Computer Science . Daniel Durnan; Computer Science . James Wesley Eckley, IV; Computer Science . Lisa Griselda Eley-Adams; Applied Mathematics. Thomas Carl Engel; Systems Engineering. Stephen Henry Eppig; Technical Management. Linda Jeanne Esker; Computer Science . Edil Manuel Estrella; Electrical Engineering. Katherine Ann Etheridge; Computer Science . Mikhail Misha Etin; Computer Science . Michael Joseph Evans; Computer Science . Fredrick Ray Facemire; Electrical Engineering. Rubirose Felix; Electrical Engineering. Joanna Leigh Fichter; Technical Management. Michael Bruce Folkart; Electrical Engineering.

Daryl Fowlkes; *Electrical Engineering*, Joel Thomas Fox; *Electrical Engineering*. Bryan A. Franz; Computer Science . Heather Bryant Franz; Applied Physics. Bruce Stuart Freedman; Technical Management. Newton Forest Freeland, Jr.; Technical Management. Michael John Fremberg; Computer Science . Frank Anthony Furlin; Computer Science . Stephen Patrick Furlong; Computer Science . Charanjiv Singh Gadh; Computer Science . Gregory Charles Galiardi; Computer Science . Patricia Lee Galle; Engineering and Applied Physics of Biomedicine. Charles A. Gardetto; Electrical Engineering. Douglas Franklin Gardner; Computer Science . John R. Gasch; Computer Science . Leo Romeo Gauthier, Jr.; Electrical Engineering. Sageev Thycodam George; Engineering and Applied Physics of Biomedicine. Parminder Singh Ghuman; Applied Physics. Richard Victor Giampalmo; Electrical Engineering. Ray E. Gibbs; Computer Science . Isma Gilani; Computer Science . Mark Robert Gilbert; Electrical Engineering. Jay Scott Gilbertson; Electrical Engineering. Brian Lee Gilbev; Applied Mathematics. David D. Gill; Applied Physics. Thomas Joseph Gill, Jr.; Applied Physics. XiangXiang Gong; Computer Science . Paul David Graham; Technical Management. Sherri Rene Graham; Applied Mathematics. William Lee Grant; Electrical Engineering. Ana Maria Gras; Applied Physics. Andrew Allen Gray; Electrical Engineering. Daniel Geoffrey Gray; Computer Science . Deanna Michele Green; Computer Science . Harold Martin Greenwald; Computer Science . David Stephen Gregory; Computer Science . Robert E. Gresdo, Jr.; Computer Science . Kim Griffith; Computer Science . John Christian Grill; Electrical Engineering. Kimberly Ann Grimes; Computer Science . Michael Lawrence Gross; Computer Science . Dale L. Guise, Jr.; Computer Science . Karl Raymond Gumtow; Electrical Engineering. Phuong Thanh Ha; Computer Science . Paul Robert Haberman; Computer Science . Paul John Hadrosek; Technical Management. Kristen M. Hahn; Computer Science .

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Post Master's Advanced Certificates in The G.W.C. Whiting School of Engineering

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Pamela Ann Abshire; Electrical and Computer Engineering. Kasra Akhavan-Toyserkani; Biomedical Engineering. Samiul Amin; Chemical Engineering. Haliong Ao; Mathematical Sciences. Azril Aziz; Computer Science. Ralf Bachmayer; Mechanical Engineering. Thomas John Balk, II; Materials Science and Engineering. Charles Briddell Bott; Geography and Environmental Engineering. Alfred Osiris Boutros; Geography and Environmental Engineering. Paul Fitzgerald Buckley; Materials Science and Engineering. Jan Cermak; Civil Engineering. Jie-Yi Cindy Chen; Geography and Environmental Engineering. Jing Chen; Computer Science. Michael Weng Hing Chen; Biomedical Engineering. Heidi Marie Christ-Schmidt; Mathematical Sciences. Terry Chun; Biomedical Engineering. Charles Alex Collins; Mecbanical Engineering. George Scott Dodro; Electrical and Computer Engineering. Zheng Dong; Computer Science. Ian Nevton Dunn; Electrical and Computer Engineering. Christopher Alan Evans; Geography and Environmental Engineering. Craig Alan Feinstein; Mathematical Sciences. Alexander Flaxman; Mechanical Engineering. Miguel Anibal Franco; Geography and Environmental Engineering. Dionne Alicbusan Graham; Biomedical Engineering. Jeff Patrick Guay; Biomedical Engineering. Asela Jeevaka Ranaweera Gunawardana; Electrical and Computer Engineering. Kai He; Electrical and Computer Engineering. John Charles Henderson; Computer Science. Erik Arjan Hendriks; Computer Science. Tanya Amy Henneman; Mathematical Sciences. Wolfgang Himmelbauer; Electrical and Computer Engineering. Joshua Daniel Houck; Mechanical Engineering. Swaminathan Jayaraman; Materials Science and Engineering. Stephanie A. Jernigan; Mathematical Sciences. Wenyi Jiang; Mechanical Engineering. Eric Kang; Mechanical Engineering. Hiroshi Katsuchi; Civil Engineering. Patrick Arthur Keffler; Chemical Engineering. Lochlann Dougall Kehoe; Geography and Environmental Engineering. Bilal Khan; Computer Science. Jeffrey Gilbert Killian; Materials Science and Engineering. Stephen Georgiev Kobourov; Computer Science. David Robert Kraemer; Civil Engineering.

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Masters of Arts in The G.W.C. Whiting School of Engineering

Adam Heath Cannon; *Mathematical Science*. Fitz-John Carr Fitzpatrick; *Geography and Environmental Engineering*.

Masters of Arts in The Zanvyl Krieger School of Arts and Sciences

Eric John Abrahamson; History. Evgeniya Akhtyrko; Institute for Policy Studies. Eliza Griswold Allen; Writing Seminars. Christine L. Allison; Institute for Policy Studies. Omer Edan Alper; Economics. Richard Eugen Altendorfer; Physics and Astronomy. Florin Ambro; Mathematics. Rebecca Lynn Andrusiak; Biology. Vincent Leonard Antonelli; Institute for Policy Studies. Jason Elia Antrosio; Anthropology. Hailong Ao; Mathematics. David Christopher Avrett; Chemistry. Mary Jean Babic; Writing Seminars. Salvatore Jason Babones; Sociology. Brian O'Neal Bachmann; Chemistry. Douglas Scott Basford; Writing Seminars. Courtney Christine Berger; English. Kamil Gokhan Bozkurt; Economics. Larry Daniel Bradley, II; Physics and Astronomy. Scott Alan Brainard; Institute for Policy Studies. Thomas R. Caferro; Chemistry. Zachary Ryan Calo; History. Joanne Patricia Cavanaugh; Writing Seminars. Alexandra Stuehler Cha; Physics and Astronomy. Lawrence Gordon Charap; History. Lorig Charkoudian; Economics. Ivan Anatolievich Cheltsov; Mathematics. Xiaolei Chen; Biophysics. Walter Y. Choi; Economics. Por-Chiung B. Chou; Economics. Christian Garrett Citarella; Mathematics. Daniel Scott Coble; Anthropology. Andrea Cozzi; Earth and Planetary Sciences. Todd Stuart Cronan; History of Art. Kelly A. Daley; Institute for Policy Studies. Nicole Danielle Damour; Chemistry. Anne de Laire Mulgrew; Hispanic and Italian Studies. Cristian Antonio de Ritis; Economics. Sarah Elissa DeWeerdt; Writing Seminars. Frances Dickey; English.

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Masters of Science in Biotechnology in The Zanvyl Krieger School of Arts and Sciences

Peter Barthmaier Lisa Michele Bartkowski Ellen Michele Baxter Inna Albertovna Bazykina Shahinoor Begum Hema Ghanshyam Bhimnathwala Kraig Campbell Black Karen Pisciotta Blodgett Rhonda Charlene Brandon Laurie Ann Brewer Debra Sue Brittingham Wendy Leigh Buchanan Cherie L. Butts Lee Cheng Daranee Chewaproug Lydia C. Chiang Jonathan M. Cohen Linda Whartnaby Cooney Rebecca Lynne Darsey Kristina Lillian Drost Robert Henry Dunn Carmen Pili Ekstrom Yasser M. El-Gamal Carl David Gajewski Lynda-Marie SE George Dianna C. Green Jonas Cord Griffin Stacey Marie Hachenberg Michael C. Hanna Joel Richard Hoskins Hong Huang Kathleen Anne Huddleston Raymond E. Jackson Lisa Ayn Kerrigan Yunsoo Kim Matthew Barry Kiser Catherine Ann Kletke Kelly A. Langan Won Sang Lee Christopher Allen Lockey Quoc-Khanh Ly Daniel Jason Martinie Stephanie Lee Myers Walailux Nethin Jean Schuerholz Orlando David Alan Patch Nita K. Patel Aaron Todd Pellman Brian Chi Tao Pien James Arthur Price, Jr. Lisa Marie Radler Anne M. Rainville Archana P. Reddy

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Kun Min Rhee; The Effect of Hypermedia-Based Math Instruction on the Basic Whole Number Addition Skills of Children with Learning Disabilities.

Hwa-Pey Wang; The Effects of a Computer-Based Self-Instruction Training Program (CBST) on the Mathematics Performance of Children with Learning Disabilities.

Artist Diplomas in The Peabody Conservatory of Music

Orlando Cotto. *Marimba*. Pei Lu. *Violoncello*.

Doctors of Musical Arts in The Peabody Conservatory of Music

Caryn S. Block. Composition.

Kyle Alexander Coughlin. Clarinet.

- Ellen Christine Hall. *Conducting*. Twenty American Orchestras: A Study of Their Repertoires from 1982-1994.
- Stephen Matthew Kidd. *Conducting*. Contemporary Music Programming in the Cincinnati Symphony Orchestra: The First 100 Years, 1895-1995.

Ho-Jeong Kwon. Piano.

Sangjae Lee. Clarinet.

Jos Evan Milton. Voice.

Eunjin Suh. Voice.

Ann Bartlett Tedards. Voice.

S. Forrest Tobey. *Conducting*. Conducting the Computer: A Description of an Original Software System Which Follows the Conductor's Baton, with a Critical Study of Related Work and a Discussion of the History and Aesthetics of Gestural Control in Electronic and Computer Music.

Eric Esko Townell. *Conducting*. The Symphonies of John Harbison.

Doctors of Science in The School of Hygiene and Public Health

- Joyce Addo; *International Health*. Prevalence of Dental Disease and Perceived Need for Dental Health Care Among Adolescents and Adults in Ghana.
- Gretchen Antelman; *Maternal and Child Health*. Determinants of Perinatal Mortality, Preterm Delivery and Intrauterine Growth Retardation Among the Urban Poor in Dhaka, Bangladesh.
- Hamam Hadi; *International Health*. Vitamin A, Breastfeeding, and Growth in Indonesian Preschool Children.

- Aziza Yakub Khalidi; *Health Policy and Management*. Indicators of Social Transformation and Infant Survival: A Conceptual Framework and an Application to the Populations of Palestine from 1927 to 1944.
- Amy R. Knowlton; International Health. The Influence of HIV Status, Current Drug Use, Gender, and Physical Health Status on Social Support and Depression in Injection Drug Users (IDUs): The Role of Family and Friends in the Well-Being of Lower Class IDUs.
- Virginia Wilson Worthington; *International Health*. Iron Content and Bioavailability of Organically Versus Conventionally Grown Crops.
- Steven S. Yoon; *International Health*. Evaluation of Sampling Methods for Assessment of Morbidity in Nepal.

Doctors of Public Health in The School of Hygiene and Public Health

- Anwer Aqil; *Health Policy and Management*. Performance and Its Correlates: A Study of Family Welfare Workers in Pakistan.
- Robert Eric Aronson; *International Health*. The Influence of Residential Context on Pregnancy Outcome: A Multi-Method and Multi-Level Study.
- Parul Christian; International Health. Determinants of Night Blindness During Pregnancy in Rural Nepal.
- Henry Stanley Gardner, Jr.; *Environmental Health Sciences*. A New Model for the Examination of Altered Cell Proliferation in Chemically Induced Hepatocarcinogenesis.
- Frank Eugene Glover, Jr.; *International Health*. Epidemiological and Familial Studies of Prostate Cancer in Jamaica.
- Farid Midhet; *Population Dynamics*. Contextual Determinants of Maternal Mortality in Rural Districts of Pakistan.
- Jeffrey Mark Paull; *Health Policy and Management*. A Proposed Risk-Based Model for the Evaluation of Surface Contamination, and the Assessment of Potential Dermal Exposure.
- Judy A. Van Buren; *Environmental Health Sciences*. The Interrelationships between Dietary Calcium and Iron and Blood Lead Outcome in Reproductive Age Women: A Cross-Sectional Study of the NHANES II Survey.

Surasing Visrutaratna; *Health Policy and Management*. Prevention of AIDS/HIV by Community Training (PACT).

- Yukiko Wagatsuma; *International Health*. Resolution and Resurgence of *Schistosoma haematobinm* Induced Pathology Following Community-Based Chemotherapy in Ghana as Detected by Ultrasound.
- Jianfeng Xu; *Mental Hygiene*.3 Genetic Linkage Study of Bipolar Disorder.

Doctors of Philosophy in The School of Hygiene and Public Health

Kim Marie Ammann Howard; *Health Policy and Management*. Predictors of Handgun Control Policy Views and Related Involvement in Advocacy Efforts.

María Patricia Arbeláez Montoya; *Epidemiology*. BCG Vaccine Effectiveness in Preventing Tuberculosis and Its Interaction with HIV Infection.

Craig Merrell Berchtold; *Environmental Health Sciences*. Cancer Chemoprevention with Novel Polyamine Analogues.

James Frederick Blanchard; *Epidemiology*. Risk Factors for Abdominal Aortic Aneurysms: A Case-Control Study.

Janice Valerie Bowie; *Health Policy and Management*. Predicting Repeat Mammography Intention in African American Women.

Darrell D. Burckhardt; *Environmental Health Sciences*. Wiener Restoration Filtering in Positron Emission Tomography.

Linda Burgess Chamberlain; *Health Policy and Management*. Primary Care Physicians' Screening Practices for Female Partner Abuse in Alaska.

Hongzi Chen; *Biostatistics*. Effect of Ignoring Randomization Constraints in the Analysis of Clinical Trials.

Chang-fu Chien; *Health Policy and Management*. The Measurement and Impact of Provider Continuity: An Application to Schizophrenia Patients.

Sei-Hoon Chung; *Biochemistry*. Transcriptional Activation of Bacteriophage Lambda DNA Replication.

Robert William Clarke; *Environmental Health Sciences*. Particle-Associated Sulfate and Lung Toxicity.

Bernard François Couttolenc; *International Health*. Health Care Prices and the Consumption of Health-Related Goods in Brazil.

Amy Joan Davidoff; *Health Policy and Management*. Medical Flexible Spending Accounts: Health Benefits Choice and Impact on Demand for Medical Care.

Robert William Davis; *Population Dynamics*. The Evolution of Risk Management Strategies in a Changing Social and Economic Environment: The Case of the Assaba Region of Mauritania.

Chamberlain C. Diala; *Health Policy and Management*. Race Differences in Attitudes Towards Seeking Professional Care and the Use of Mental Health Services.

James Edward Drummond; *Molecular Microbiology and Immunology*. Wild Type and Mutant HIV-1 Nucleocapsid Proteins Increase the Proportion of Long cDNA Transcripts by Viral Reverse Transcriptase.

Agatha Ngamka Eke; *Health Policy and Management*. Socializing Influences on HIV/AIDS-Related Risk Behaviors Among Adolescents in Nigeria.

Ilya Elashvili; *Environmental Health Sciences*. Bacterial Metabolism of Organophosphorus Compounds.

Barbara A. Ellis; Molecular Microbiology and Immunology. Microhabitat Selection and Dietary Habits of Rodents in the Endemic Zone of Argentine Hemorrhagic Fever.

Dominic Esposito; *Biochemistry*. Characterization of Excisive Recombination in Bacteriophage HP1.

Jeanette Marie Ezzo; *Health Policy and Management*. Return to Work and Recurrence of Low Back Injury in Baltimore Municipal Employees.

Stacey Jane Farmer; *Environmental Health Sciences*. The Effects of Developmental Lead Exposure on Protein Kinase C in the Rat Hippocampus.

Maria Elena Figueroa; *Population Dynamics*. The Influence of Household Traits on the Outpatient Demand for Health Care: The Case of Mexico.

Cheryl Anne Finney; *Health Policy and Management*. An Evaluation of the Relationship Between Literacy and Dietary Patterns in a High Risk Urban Population.

Heidi Beth Friedman; *Epidemiology*. Human Papillomavirus, Anal Squamous Intraepithelial Lesions, and Human Immunodeficiency Virus in a Cohort of Gay Men.

Nancy Fronczak; *International Health*. Early Maternal Morbidity and Utilization of Delivery Services by Urban Slum Women of Dhaka, Bangladesh.

Paul Alan Gaist; *Health Policy and Management*. HIV Preventive Vaccine Preparedness Among Out-of-Treatment Injection Drug Users.

Lawrence James Geiter; *Epidemiology*. Results of a Randomized, Controlled Clinical Trial to Assess the Toxicity and Patient Adherence with Two Short-Course Regimens for Preventive Therapy for Tuberculosis.

Inca Ghosh; Molecular Microbiology and Immunology. Gene Expression in Brugia Malayi: Construction of L3 and L4 cDNA Libraries and Characterization of Nucleoside Diphosphate Kinase and a Thiol-Specific Antioxidant.

Marshall Jay Glesby; *Clinical Investigation*. Methodologic Issues in the Evaluation of Interventions for Human Immunodeficiency Virus Disease.

Lea Cara Harty; *Epidemiology*. Alcohol Dehydrogenase Type 3 Genotype and Susceptibility to Oral and Pharyngeal Cancer.

Judith D. Harvilchuck-Laurenson; *Health Policy and Management*. The Relationships of Stress, Social Competence, and Health Status with Adolescent Academic Achievement.

Olaf Gregory Haugen; *Health Policy and Management*. Performance of Risk Adjusted Capitated Systems in Allocating a Global Budget.

Carrie Lynn Hayes; *Environmental Health Sciences*. Kinetic Analyses of the 17 beta-Estradiol Hydroxylase Activities Catalyzed by Human Cytochrome P450 1B1.

Karen Ann Hickey; *Biochemistry*. Stability Studies on the *E. coli rec* A Protein. Sterling Clint Hilton; *Biostatistics*. Longitudinal Analysis of Visual Fields.

Der Jen Hsu; *Environmental Health Sciences*. The Human Inhalability of Ultralarge Aerosols in Calm Air: *In Vitro* and *In Vivo* Studies.

Nora Jacobson; *Health Policy and Management*. The Socially Constructed Breast: An Examination of the History of Silicone Breast Implants.

Daniel Stephen Johnston; *Population Dynamics*. Sperm-Zona Binding in the Mouse: Evidence for Multiple Sperm-Binding Glycans on the Zona Pellucida.

Lynne Christine Jones; *Molecular Microbiology and Immunology*. The Effect of Particulate Biomaterials and Motion on Aseptic Loosening of Orthopaedic Implants.

Suh-Hang Hank Juo; *Epidemiology*. Genetic Analysis of Unconventional Risk Factors for Cardiovascular Disease: Segregation Analysis of Apo A-I, HDL³-C, and HyperapoB in Families Enriched for Premature Coronary Artery Disease.

Deborah Anne Levy; *Epidemiology*. Cytokines in HIV-Related Wasting: A Nested Case-Control Study in a Cohort of Homosexual Men.

Wenchi Liang; *Health Policy and Management*. Interrelationships Among Preventive Health Behaviors and Their Determinants: Analysis of the Behavioral Risk Factor Surveillance Data in Maryland, 1990-92.

Su-Ju Lin; *Environmental Health Sciences*. Roles of the *Saccharomyces cerevisiae ATX1 and ATX2* Genes in Oxygen Radical and Metal Ion Homeostasis.

Anna Alden Lindley; *Population Dynamics*. Maternal Cigarette Smoking During Pregnancy and Birth Outcomes in Sweden.

Barbara Suzanne Lyons; *Health Policy and Management*. Access to Care Among Elderly Medicare Beneficiaries: The Influence of Medicaid Coverage.

Donna Hubbard McCree; *Health Policy and Management*. The Effect of Social Interdependence on Condom Use Self-Efficacy in a College Population of African American Females.

Beverly Gail Mellen; *Biostatistics*. Statistical Reasoning About DNA Evidence in Human Identification Problems.

Deborah Jean Miller; *Health Policy and Management*. Academic and Behavioral Problems of Children Related to Parental Alcohol Consumption.

Christine L. Mulgrew; *Epidemiology*. Risk Factors for Methylation of the Estrogen Receptor Gene in Normal Colonic Tissue.

Jean Marie Niyonzima; *Epidemiology*. Cofactors for Human Tlymphotropic Virus Type I and II; (HTLV-I/II) Infection in a Population of Women in Rwanda, Africa.

Seamus O'Reilly; *Clinical Investigation*. Pharmacologic Studies of Penclomedine.

Medhat Mohamed Osman; *Environmental Health Sciences*. The Relationship Between Soft Tissue and Bone Tumor Response to Antineoplastic Therapy: Development and Validation of Serial Quantitative Bone Scanning in Animals and Patients.

John Gerard Palenicek; *Health Policy and Management*. Differences in Health Outcomes and Survival between HIV-Infected Persons Enrolled in Managed Care Organizations (MCOs) and Those with Traditional Fee-for-Service Insurance: the Experience of the Multicenter Cohort Study (MACS).

Youlin Qiao; *Environmental Health Sciences*. A Prospective Study of Early Biomarkers of Lung Cancer in Yunnan Tin Miners.

Ravi Prakash Rao; *Maternal and Child Health*. Traumatic Brain Injuries in Infants and Young Children.

Martin Lloyd Sanders; *Molecular Microbiology and Immunology*. Host Antibody Responses to Tick Salivary Gland Proteins: Novel Approaches to the Development of Biologic Markers of Tick Exposure.

Andrew M. Seacat; *Environmental Health Sciences*. Mechanisms of Ethinyl Estradiol-Induced Oxidative DNA Damage.

Valerie Jean Sedivy; *Population Dynamics*. The Effect of Risk-Assessment Based Counseling on Contraceptive Behavior.

Andrew Daniel Shore; *Health Policy and Management*. Do not Resuscitate/Do Not Intubate Orders and the Cost of Terminal Hospitalization.

Alyson Kay Shupe; *Maternal and Child Health*. The Impact of Maternal Stress and Affect Intensity on Fetal Neurobehavioral Functioning.

John Robert Sonnega; *Health Policy and Management*. A Social Competence Analysis of Trait Anger in Adolescents at Risk for Hypertension.

Judy Anne Staffa; *Epidemiology*. Phenol Sulfotransferase Activity and Migraine Headache: A Population-Based Case-Control Study and Family Study.

Joseph Anthony Tangrea; *Epidemiology*. Vitamin D Status and Risk of Large Bowel Cancer.

Anthony M. Tucker; *Health Policy and Management*. Reinsurance and Risk Adjustment: An Analysis of Bias in the Process of Applying Capitation Rates.

Janet Molzan Turan; *Population Dynamics*. The Design and Evaluation of an Intervention to Promote Postpartum Health in Istanbul: Does Including Fathers Make a Difference?

Robin Marian Wagner; *Epidemiology*. A Case-Control Study of Risk Factors for Physical Injury During the Mainshock of the 1989 Loma Prieta Earthquake in the County of Santa Cruz, California.

Shani Waninger; *Biochemistry*. Intasome Assembly During Site Specific Recombination of Bacteriophage HP1.

Corinne N.C. Whitaker; International Health. The Impact of Women's Participation in an Income-Generation Program in Southwestern Tanzania. Mary Elizabeth Willy; *Epidemiology*. Risk Factors for Altered Measles Vaccine Response in a Population of Jamaican Children.

Meei-Maan Wu; *Epidemiology*. DNA Repair and Arsenical Skin Cancer: A Case-Control Study in a Blackfoot Disease Endemic Area in Taiwan.

Doctors of Philosophy in

The Paul H. Nitze School of Advanced International Studies

- Craig Alan Deare, The Dilemmas of Mexican National Security: An Assessment of the Salinas Administration
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Doctors of Medicine in The School of Medicine

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Frances Willa Reis Kari Reuter Roberts William Woodruff Roberts, III Adam Todd Ross Tuhin Kumar Roy John-Paul Harris Rue David Marcelo Sabatini Douglas Salvador Amer Farman Samdani Jason Michael Sample David Ilan Sandberg Darshak Mahendra Sanghavi **Risa Raquel Sargeant** Paul Sekyere-Nyantakyi Hasan Shanawani Daniel William Sheehan Laura Ann Snyder Peter Nathan Steinmetz Susan Kendrick Stroud Alison Irwin Swift Aaron Thomas Tabor Yen-Len Tang Robert Wayne Thompson, Jr. Thuy Anh Tran Ravi Kumar Veeraswamy Susan Marie Voglmaier Loren David Walensky Amina Tené Watson Jeffrey Charles Weller Darin Lee Weyhrich Peter Kim Wu Lynda Jun-San Yang Amy Tumbridge Young

Doctors of Philosophy in The School of Medicine

- Seth Blackshaw; *Neuroscience*. The Molecular Basis of Extraretinal Phototransduction.
- Jennifer Reed Bostic; *Pharmacology and Molecular Sciences*. Molecular Cloning and Characterization of a Schistosoma mansoni Gynecophoral Canal Protein.
- Carrie Lynn Baker Brachmann; *Biochemistry*, *Cellular and Molecular Biology Training Program Molecular Biology and Genetics*. The SIR2/HST Gene Family.
- Paul Ryland Brakeman; *Neuroscience*. Homer, a Novel PDZ Domain Containing Protein Interacts with PI-Linked Metabotropic Glutamate Receptors.
- Jeffrey Craig Buchsbaum; *Biophysics and Biophysical Chemistry*. Kinetic and Mass Spectrometric Studies of Metal Binding and Zinc Finger Peptides.

Immaculata Imawati Budihardjo; *Pharmacology and Molecular Sciences*. Mechanism of Action of 6-Aminonicotinamide.

- Deborah Eileen Cabin; *Biochemistry, Cellular and Molecular Biology Training Program - Physiology*. Molecular Genetic Aproaches to the Study of Down Syndrome.
- Mei-Yu Chen; *Biochemistry, Cellalar and Molecular Biology Training Program - Biological Chemistry.* Signaling through Chemoattractant Receptors in Dictyostelium.
- Emily Hsiao-Yu Cheng; *Pharmacology and Molecular Sciences*. Molecular Mechanisms by Which Bcl-2 Family Members Inhibit Apoptosis.
- Jie Cheng; *Physiology*. Regulation of Phosphatidylcholine Hydrolysis in Cell Growth and Transformation.
- Tae-Wook Chun; *Biochemistry, Cellular and Molecular Biology Training Program - Molcular Biology and Genetics.* Studies of Cellular Latency and Viral Load in HIV-1 Infected Individuals: Implications for Therapies and Eradication of Infection.
- Andrei Emil Constantinescu; Biochemistry, Cellular and Molecular Biology Training Program - Molecular Biology and Genetics. The Effect of Immunoglobulin Gene Products on Locus-Specific V(D)J Recombinase Activity and Programmed Cell Death in B Cell Development.
- Christos Constantinidis; *Neuroscience*. Neurophysiological Studies of Spatial Attention and Short-Term Memory in Monkey Posterior Parietal Cortex.
- Enrique M. De La Cruz; *Biochemistry*, *Cellular and Molecular Biology Training Program - Cell Biology and Anatomy*. Mechanisms of Nucleotide and Phalloidin Binding to Actin: Insights About Actin Structure and Dynamics.
- Eric T. Fung; *Neuroscieuce*. Molecular Analysis of Rapsyn-Mediated Synapse Organization.
- Ilya G. Goldberg; *Cell Biology and Anatomy*. CENP-B and Alpha-Satellites: Function and Evolution.
- Michelle Lynn Gwinn; *Biochemistry, Cellular and Molecular Biology Training Program - Molecular Biology and Genetics.* Studies on the Regulation of Competence Development in Haemophilus influenzae Rd.
- Alex Yee-Chen Huang; Biochemistry, Cellular and Molecular Biology Training Program - Molecular Biology and Genetics. Dissecting the Mechanisms of CD8^{*} T Cell Antitumor Immune Responses.
- Qi Huang; *Pharmacology and Molecular Sciences*. Regulation of Herpes Simplex Virus (HSV) Immediate Early Gene Expression During Lytic and Latent Infection.
- Kuo-Yuan Hwa; Biochemistry, Cellnlar and Molecular Biology Training Program - Biological Chemistry. Protein Glycosylation in Procyclic Trypanosoma brucei brucei: A Genetic Approach.
- Subramanian Kalyanasundaram; *Biomedical Engineering*. Transport and Distribution of Drugs Delivered Intracranially by Polymeric Conrolled Release.
- Joseph Francis Kelleher III; *Biochemistry, Cellular and Molecular Biology Training Program Cell Biology and Anatomy.* Structure and Molecular Associations of Actin-Related Proteins Arp2 and Arp3 from Acanthamoeba castellanii.

- Tzumin Lee; *Biochemistry, Cellular and Molecular Biology Training Program - Biological Chemistry.* Multiple Roles for Patterned Activity on the Breathless Receptor Tyrosine Kinase and Ras in Development.
- Matthew Jerome Lesho; *Biomedical Engineering*. The Design of Conductimetric Biosensors Based on Environmentally Responsive Hydrogels.
- Bertram A. Lewis, Jr.; *Biomedical Engineering*. Identification and Characterization of Two Dihydropyridine-Insensitive Calcium Channels Expressed in Bullfrog Sympathetic Neurons.
- Zhong Li; *Biochemistry, Cellular and Molecular Biology Training Program - Molecular Biology and Genetics.* A Conserved Degradation Signal Regulates RAG-2 Accumulation during Cell Division and Links V(D)J Recombination to the Cell Cycle.
- Andrew Michael Libson; *Biochemistry, Cellular and Molecular Biology Training Program - Biophysics and Biophysical Chemistry*. Crystal Structures of the Binary and Ternary Complex of the Asp21— Glu Mutant of Staphylococcal Nuclease and the Crystal Structure of the C-terminal Domain of Gelatinase A as well as a Description of its TIMP-2 Binding Site.
- Ruth Ellen Luthi-Carter; *Pharmacology and Molecular Sciences*. Cloning and Expression of the NAALADase Neuropeptidase.
- Maureen A. O'Leary; *Cell Biology and Anatomy-Functional Anatomy and Evolution*. Dental Evolution in the Early Eocene Notharctinae (Primates, Adapiformes) from the Bighorn Basin, Wyoming: Documentation of Gradual Evolution in the Oldest True Primates.
- Susan Roberta Paalman; *Biochemistry, Cellular and Molecular Biology Training Program - Biophysics and Biophysical Chemistry*. Studies of a DNA Repair Protein: O⁶-Methylguanine Methyltransferase.
- Christian Saforo Parry; *Biophysics and Biophysical Chemistry*. Affinity Maturation and the Chemical Basis of Fine Specificity of anti-(4-Hydroxy-3-Nitrophenyl) Acetyl Antibodies.
- Carlos Portera-Cailliau; *Neuroscience*. Glutamate Excitotoxicity: An Apoptosis of Necrosis Continuum of Neuronal Cell Death.
- Sean Taylor Prigge; *Biophysics and Biophysical Chemistry*. The Structure of Peptidylglycine alpha-Hydroxylating Monooxygenase Determined by Multiple Wavelength Anomalous Dispersion at the CuK Edge.
- Keith D. Robertson; *Pharmacology and Molecular Sciences*. Analysis of the Role of DNA Methylation in the Regulation of the Epstein-Barr Virus BamHI-C Promoter.
- Tuhin Kumar Roy; *Biomedical Engineering*. Distribution of Intravascular and Extravascular Resistances to Oxygen Transport.
- Laura Nicole Rusché; *Biochemistry*, *Cellular and Molecular Biology Training Program - Biological Chemistry*. RNA Editing in Trypanosomes: Purification and Characterization of an Enzymatic Editing Complex and Its Resident Activities.

- Kathleen R. Ryan; *Biochemistry, Cellular and Molecular Biology Training Program - Cell Biology and Anatomy.* Protein Import Through the Mitochondrial Inner Membraine: Characterization of the Roles of Mas6p and Sms1p.
- David Marcelo Sabatini; *Neuroscience*. Control of Translation By A Novel, Rapamycin-sensitive Signaling Pathway.
- Walton Orvyl Schalick, III; *History of Science, Medicine and Technology.* Add One Part Pharmacy to One Part Surgery and One Part Medicine: Jean de Saint-Amand and the Development of Medical Pharmacology in the Thirteenth Century Paris.
- Michael J. Schell; *Neuroscience*. Localization and Functions of Endogenous D-Amino Acids in Brain.
- Arthur L. Shaffer III; *Molecular Biology and Genetics-Program in Immunology*. The Role of the Pre-B Cell Receptor in Early B Lymphocyte Development.
- Stephen Michael Soisson; *Biochemistry, Cellnlar and Molecular Biology Training Program - Biophysics and Biophysical Chemistry.* Structural Studies of the AraC Protein from Escherichia Coli.
- Peter Nathan Steinmetz; *Biomedical Engineering*. Ideal Detectors of Visual Signals in the Rod Photoreceptor Network.
- Yu-Lin (Robert) Tsai; *Neuroscience*. Cloning and Functional Analysis of Roaz, a Zinc finger Protein that Regulates Olfactory Gene Expression.
- Loretta Tse; *Pharmacology and Molecular Sciences*. Identification and Functional Analysis of the Epstein-Barr Virus (EBV) Transcription Activator Rta and its Homologues.
- Cynthia C. Tsui; *Neuroscience*. Characterization of Neuronal Activity-Regulated Pentraxin (NARP): An Immediate-Early Gene that Promotes Neurite Outgrowth.
- Susan M. Voglmaier; *Neuroscience*. Identification of Inositol Polyphosphate Receptor and Kinases.
- Cornelia Sylvia von Koch; *Nenroscience*. Molecular Analysis of a Homologue of the Mouse Beta-Amyloid Precursor Protein, APLP2: Isolation of APLP2 cDNA: Characterization of the APLP2 Gene Promoter and Gene Targeting of APLP2.
- Ishrat Waheed; *Pharmacology and Molecular Sciences*. Transcriptional Modulation by the HCMV Immediate-Early Protein (IE2): Characterization of the Transactivator and Transrepressor Phenotypes.
- Loren David Walensky; *Pbarmacology and Molecular Sciences*. Roles for Novel Members of the Odorant Receptor Family and Sperm Inositol 1,4,5-Trisphosphate Receptors in Mammalian Fertilization.
- Catherine A. Wolkow; *Biochemistry, Cellular and Molecular Biology Training Program - Molecular Biology and Genetics.* Target Site Selection by the TnsABC+E Pathways for Tn7 Transposition in Escherichia Coli.
- Jingyuan Xu; *Biophysics and Biophysical Chemistry*. The Mechanical and Physical Properties of Actin Filament Networks.

Lynda Jun-San Yang; *Pbarmacology and Molecular Sciences*. Gangliosides and Complementary Lectins in Cell-Cell Recognition: Specific Binding of Neuronal Gangliosides by Myelin-Associated Glycoprotein.

Weiyi Yang; *Biochemistry, Cellular and Molecular Biology Training Program - Molecular Biology and Genetics.* Characterization of Protein-binding Domains in Bruton's Tyrosine Kinase (Btk) and Identification of a Novel, Btk-associated Substrate, BAP-135, which is a Target for sIg-mediated Signaling in B Cells.

Wendy M. Yee; *Neuroscience*. Signal Transduction Mechanisms Mediated by Rheb, a Ras Homolog Enriched in Brain, and their Novel Dependence on Coincident Growth Factor and cAMP Signaling for Activation of the MAP Kinase Pathway.

Zhong Zhao; *Biomedical Engineering*. Polymeric Controlled Delivery of Cytokines for Cancer Immunotherapy.

Ling Zhong; *Biochemistry, Cellular and Molecular Biology Training Program - Pharmacology and Molecular Sciences.* Role of Herpes Simplex Virus Type-1 (HSV-1) Immediate Early Proteins in Intranuclear Compartmentalization During HSV-1 Infection.

Hao Zhou; Biochemistry, Cellular and Molecular Biology Training Program - Molecular Biology and Genetics. Cloning and Characterization of RPF-1, a Complex POU-Domain Transcription Factor Implicated in Retinal Development.

Doctors of Philosophy in The G.W.C. Whiting School of Engineering

Elli Vassilios Angelopoulou; *Computer Science*. Photometric Invariance in Shape Analysis.

James Paul Armistead; *Materials Science and Engineering*. Part I: Optical Measurement of Polyethylene Spherulite Growth Rates in Three Growth Regimes; Part II: Influence of Matrix Properties on the Single Fiber Fragmentation Technique.

Baidurya Bhattacharya; *Civil Engineering*. A Damage Mechanics Based Approach to Structual Deterioration and Reliability.

Hongmei Cai; *Mechanical Engineering*. Micromechanical modeling of deformation, fracture and growth in structual and biological materials.

James J. Carrig, Jr.; *Electrical and Computer Engineering*. Algorithm Design Methodologies for High Performance Computer Architures.

Pisupati Chandrasekhar; *Computer Science*. Geometric Analysis of Dynamic Three-Dimensional Tree Structures.

Jeffrey J. Clark; *Geography and Environmental Engineering*. Effects of land use change on northeastern Puerto Rico Rivers.

Weiguo Dai; *Chemical Engineering*. Enhancement of cell aggregation and function by polymers.

Laura Juliet Ehlers; *Geography and Environmental Engineering*. RP4 Plasmid Transfer Among Strains of Pseudomonas in a Biofilm Reactor. Ravi Ganesan; *Computer Science*. Yaksha: Towards Resuable Security Infrastructues.

James Weston George; *Geography and Environmental Engineering*. Subtree Location on Tree Networks Applied to Transportation and Telecommunications Network Design.

Sudha Goel; *Geography and Environmental Engineering*. Factors Influencing NOM Biodegradability and Growth and Disinfection of K. pneumoniae in Drinking Waters.

Lai Gui; *Geography and Environmental Engineering*. Transformation of Nitroaromatic Pesticides Under Sulfate Reducing Conditions.

David Kyonghun Han; *Mechanical Engineering*. Shape Decomposition Technique in Electrical Impedance Tomography.

Joseph Martin Harkness; *Geography and Environmental Engineering*. Plant Location Problems with Non-linear Production Functions.

Keith John Holmes; *Geography and Environmental Engineering*. An Integrated Assessment Model for Global Climate Change and Other Environmental Impacts.

- Anurag Jain; *Civil Engineering*. Multi-Mode Aeroelastic and Aerodynamic Analysis of Long-Span Bridges.
- Wenyi Jiang; *Mechanical Engineering*. Mechanics modeling of bending, buckling, and heat-transfer of orthotropic plates in structual and electronic applications.

Nathan Layne Kleinman; *Mathematical Sciences*. Stochastic Approximation Algorithms: Theory and Application.

Osmo Juhani Koskisto; *Civil Engineering*. Reliability—based Optimization of Plant Precast Concrete Building Systems.

Nagendra Kumar; *Electrical and Computer Engineering.* Investigation of Silicon Auditory Models and Generalization of Linear Discriminant Analysis for Improved Speech Recognition.

Dominic Savio Lee; *Mathematical Sciences*. Advancing the Resampling Paradigm.

Seung-Joon Lee; *Electrical and Computer Engineering*. Study of Novel Electronic and Photonic Devices Based on Compound Semiconductor Heterostructures.

Grace Sze Man Lo; *Mathematical Sciences*. Complementarity Problems in Robotics.

John C. Marchelya; *Geography and Environmental Engineering*. Enforcing Pollution Control Laws: Stackelberg Markov Game Models for Improving Efficiency and Effectiveness.

Brian Walter McArdell; *Geography and Environmental Engineering*. Field Experiments on the Controls of Downstream Fining in Gravel-Bed Rivers.

Blythe Ellen McCarthy; *Materials Science and Engineering*. Microstructural and Compositional Studies of the Technology and Durability of Ceramic Glazes from Nippur, Iraq, ca. 250 B.C.-1450 A.D.

John Moore O'Neil; *Mechanical Engineering*. Subgrid Scale Stresses and Their Modeling in the Turbulent Plane Wake.

Amjad Turki Obeidat; *Electrical and Computer Engineering*. The Modeling and Experimental Characterization of Optoelectronic Devices, and The Study of Two-Photon Excitation in Biological Markers.

Regina Hilda Ostergaard; *Geography and Environmental Engineering*. Decision Making at the Voivodship Environmental Fund in Lodz, Poland: Assessing Comparative Risks.

Michael Vincent Pascale; *Electrical and Computer Engineering*. Parallel Algorithm Synthesis for Message-Passing Distributed-Memory Architures.

Marc André Peters; *Electrical and Computer Engineering*. Entropy for Time-Varying Systems.

Edward Michael Pogozelski; *Mechanical Engineering*. Experimental Investigation of: A) The Flow a Surface Piercing Blunt Body, and B) The Near Field Behavior of The Tip Vortex Behind an Elliptic Foil.

Philippe Olivier-Marie Pouliquen; *Electrical and Computer Engineering*. Architectures for Low Power Associative Processing in Analog VLSI.

Kumar Ramaiyer; *Computer Science*. Geometric Data Structures and Applications.

Michael Rooney; *Materials Science and Engineering*. Correlation of Ultrasonic Measurements to the Mechanical and Physical Properties of an Hydroxy-terminated Polybutadiene Composite Solid Propellant.

Glenn Harwood Sabin; *Mathematical Sciences*. Facility Location with Forbidden Regions.

John Wilbur Sheppard; *Computer Science*. Multi-Agent Reinforcement Learning in Differential Games.

Lei Shi; *Civil Engineering*. Failure Loads on Layered Soils and Mechanisms of Collapse.

Xiyan Shi; *Mechanical Engineering*. Numerical Study of Shear-Induced heating in High-Speed Nozzle Flows.

Lakshmeshwar Singh; *Civil Engineering*. Experimental Determination of Aeroelastic and Aerodynamic Parameters of Long-Span Bridges.

Jeffrey Harold Sinsky; *Electrical and Computer Engineering*. Electronically Tunable Solid State Microwave Intergrated Circuit Amplifiers.

Jean Marie Smolen; *Geography and Environmental Engineering*. The Influence of Dissolved Metal Ions and Metal-Containing Mineral Surfaces on the Hydrolysis of Phosphoro(thion)ate Ester Pesticides.

Melinda Anne Trizinsky; *Geography and Environmental Engineering*. The Influence of Oxygen and Toluene Concentrations of Toluene Biotransformation by Facultative Denitrifying Bacteria.

Amos M. Tsai; *Chemical Engineering*. A study of in vivo and in vitro protein aggregation.

Dwight Sifri Wilson; *Mathematics*. Certification Trails: Analysis, Methodology, and Experimentation.

Liza Price Wilson; *Geography and Environmental Engineering*. Biodegradation of Aromatic Hydro-carbons in Aquifer Materials with Mixtures of Oxygen and Nitrate as Electron Acceptors.

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- Takayuki Yamauchi; *Mathematics*. On the Existence and Uniqueness of Complete Isometric Constant Mean Curvature Imbeddings in the Hyperbolic Space.
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JOHNS HOPKINS