The Johns Hopkins University

Conferring of Degrees

At the Close of the 110th Academic Year
May 30, 1986
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ORDER OF PROCESSION

MARSHALS
Edward J. Bouwer
Paul R. Daniels
Andrew S. Douglas
Bruce Hamilton
Martha Hill
Susan D. Horn
Jean Eichelberger Ivey

Marion Panyan
Owen M. Phillips
Fred S. Schock
Henry Seidel
Nathaniel B. Thayer
James C. Walker
M. Gordon Wolman

THE GRADUATES
*

MARSHALS
Frederic Davidson
Jerome B. Schneewind

THE FACULTIES
*

MARSHALS
Marc D. Donohue
Lloyd Armstrong

THE DEANS
MEMBERS OF THE SOCIETY OF SCHOLARS
OFFICERS OF THE UNIVERSITY

THE TRUSTEES
*

CHIEF MARSHAL
Paul R. McHugh

THE CHAPLAINS
THE HONORARY DEGREE CANDIDATES
THE PROVOST OF THE UNIVERSITY
THE CHAIRMAN OF THE BOARD OF TRUSTEES
THE PRESIDENT OF THE UNIVERSITY
*

— 1 —
ORDER OF EVENTS

STEVEN MULLER
President of the University, presiding

* * *

PRELUDE

Colonel Bogie March
Kenneth Alford
(1881-1945)
Sonata 22
Johann Pezel
(1639-1694)

Homage March
Edvard Grieg
(1843-1907)
Contrapunctus III
J. S. Bach
(1685-1750)

Fanfare from LaPerie
Paul Dukas
(1865-1935)

*

PROCESSIONAL

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

Marches from Belshazzar, Floridante, Ezio, Judas Maccabaeus, Saint Cecilia’s Day and Rinaldo

Georg Friedrich Handel
(1685-1759)

*

THE PRESIDENT’S PROCESSION

Fanfare
Walter Piston
(1894-1976)

March from Scipione
Georg Friedrich Handel
(1685-1759)

*

INVOCATION

Gretchen Van Utt
Chaplain
The Johns Hopkins University

*

THE NATIONAL ANTHEM

*

GREETINGS

George G. Radcliffe
Chairman of the Board of Trustees

*
PRESENTATION OF NEW MEMBERS OF THE SOCIETY OF SCHOLARS

Moshe Abeles  Wayne A. Hendrickson
Haroutune Armenian  Geogheanna Seegar Jones
Ernesto Carafoli  Howard Wilbur Jones
Denton A. Cooley  Robert G. Petersdorf
Gilles Marc Corcos  Raymond Seltser
Milton Thomas Edgerton  Morton M. Weber

William O. Williams
Scholars Presented by Richard Longaker

Provost of the University

*

THE FESTIVAL BRASS
Ellery B. Woodworth, conductor

Fanfare for the Common Man
Aaron Copland
(1900-)

*

CONFERRING OF HONORARY DEGREES

Alonzo G. Decker, Jr.
Rhoda M. Dorsey
William N. Mann *
Eric R. Kandel

Presented by Richard Longaker

* Presented in absentia and accepted by Dr. Richard S. Ross

*

ADDRESS

Eric R. Kandel
University Professor, Columbia University

*

CONFERRING OF DEGREES ON CANDIDATES

BACHELORS OF ARTS

Presented by

George W. Fisher
Dean, School of Arts and Sciences

BACHELORS OF SCIENCE IN BIOMEDICAL ENGINEERING
BACHELORS OF SCIENCE IN CHEMICAL ENGINEERING
BACHELORS OF SCIENCE IN CIVIL ENGINEERING
BACHELORS OF SCIENCE IN ELECTRICAL ENGINEERING
BACHELORS OF SCIENCE IN ENGINEERING MECHANICS
BACHELORS OF SCIENCE IN MATERIALS SCIENCE AND ENGINEERING
CONFERRING OF DEGREES ON CANDIDATES
continued

BACHELORS OF SCIENCE IN MATHEMATICAL SCIENCES
BACHELORS OF ARTS
BACHELORS OF CIVIL ENGINEERING
BACHELORS OF ELECTRICAL ENGINEERING
BACHELORS OF INDUSTRIAL ENGINEERING
BACHELORS OF MECHANICAL ENGINEERING

Presented by
V. DAVID VANDELINDE
Dean, G.W.C. Whiting School of Engineering

* * *

PERFORMERS CERTIFICATES
BACHELORS OF MUSIC

Presented by
ROBERT O. PIERCE
Director, Peabody Conservatory of Music

* * *

BACHELORS OF SCIENCE
Presented by
CAROL J. GRAY
Dean, School of Nursing

* * *

ASSOCIATES OF ARTS
ASSOCIATES OF SCIENCE
BACHELORS OF SCIENCE

Presented by
STANLEY C. GABOR
Dean, School of Continuing Studies

* * *

MASTERS OF SCIENCE
MASTERS OF EDUCATION
MASTERS OF LIBERAL ARTS
MASTERS OF ADMINISTRATIVE SCIENCE
CERTIFICATES OF ADVANCED STUDY

Presented by
STANLEY C. GABOR
Dean, School of Continuing Studies

* * *
CONFERRING OF DEGREES ON CANDIDATES
continued

PROFESSIONAL STUDIES CERTIFICATES
MASTERS OF MUSIC
ARTISTS DIPLOMAS

Presented by
ROBERT O. PIERCE
Director, Peabody Conservatory of Music

* * *

MASTERS OF SCIENCE
MASTERS OF HEALTH SCIENCE
MASTERS OF PUBLIC HEALTH

Presented by
DONALD A. HENDERSON
Dean, School of Hygiene and Public Health

* * *

MASTERS OF INTERNATIONAL PUBLIC POLICY
MASTERS OF ARTS IN INTERNATIONAL AFFAIRS
MASTERS OF ARTS

Presented by
GEORGE R. PACKARD
Dean, School of Advanced International Studies

* * *

MASTERS OF ARTS

Presented by
RICHARD S. ROSS
Dean, School of Medicine

* * *

MASTERS OF CIVIL ENGINEERING
MASTERS OF SCIENCE
MASTERS OF SCIENCE IN ENGINEERING
MASTERS OF ARTS

Presented by
V. DAVID VANDELINDE
Dean, G. W. C. Whiting School of Engineering

* * *
CONFERRING OF DEGREES ON CANDIDATES
continued

MASTERS OF ARTS

Presented by
GEORGE W. FISHER
Dean, School of Arts and Sciences

* * *

DOCTORS OF EDUCATION

Presented by
STANLEY C. GABOR
Dean, School of Continuing Studies

* * *

DOCTORS OF MUSICAL ARTS

Presented by
ROBERT O. PIERCE
Director, Peabody Conservatory of Music

* * *

DOCTORS OF SCIENCE
DOCTORS OF PUBLIC HEALTH
DOCTORS OF PHILOSOPHY

Presented by
DONALD A. HENDERSON
Dean, School of Hygiene and Public Health

* * *

DOCTORS OF PHILOSOPHY

Presented by
GEORGE R. PACKARD
Dean, School of Advanced International Studies

* * *

DOCTORS OF MEDICINE
DOCTORS OF PHILOSOPHY

Presented by
RICHARD S. ROSS
Dean, School of Medicine

* * *
CONFERRING OF DEGREES ON CANDIDATES
continued

DOCTORS OF PHILOSOPHY
Presented by
V. DAVID VANDELINDE
Dean, G. W. C. Whiting School of Engineering

* * *

DOCTORS OF PHILOSOPHY
Presented by
GEORGE W. FISHER
Dean, School of Arts and Sciences

* * *

STATEMENT TO THE GRADUATES
STEVEN MULLER
President of the University

*

BENEDICTION
CLYDE R. SHALLENBERGER
Director
The Chaplaincy Service
The Johns Hopkins Hospital

*

RECESSIONAL
Trumpet Voluntary
JEREMIAH CLARKE
(1673-1707)
Trumpet Tune
HENRY PURCELL
(1659-1695)

The audience is requested to remain standing after the Benediction until the principals, officials, members of the faculties, and graduates have left the area.
JOHNS HOPKINS SOCIETY OF SCHOLARS

The Johns Hopkins Society of Scholars was created on the recommendation of former 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 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 postdoctoral work. 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. Each division has the privilege of nominating up to three candidates for each election year. The Scholars are invested during the Commencement ceremony, the Commemoration Day ceremony, or on some similar occasion. They are presented with a diploma and a medallion with a black and gold ribbon. The Scholars wear the medallion around the neck, and they also wear academic costumes.

Today we honor 18 new members who have been elected this year to the Johns Hopkins Society of Scholars.

Dr. Moshe Abeles is visiting professor in the Department of Physiology at the University of Pennsylvania and chairman of the Israel Center for Psychobiology at the Hadassah Medical School in Jerusalem. He was a postdoctoral fellow in the Department of Biomedical Engineering from 1966 to 1968, years which set the course of a career marked by international distinction in teaching and in neuroscience research. He is widely known for study of the neocortex and local circuits in the brain, with his 1982 monograph on the latter subject representing exemplary work in the field. He has received prizes for papers on EEG synchronizing and desynchronizing neurons and for work on computer aided analysis of nerve cell activity. He has trained a number of talented graduate students, including two who followed his path in postdoctoral study at Johns Hopkins.

Dr. Haroutune Krikor Armenian is dean of the Faculty of Health Sciences at the American University of Beirut in Lebanon. He holds a medical degree from the institution and earned both master's and doctoral degrees at the Johns Hopkins School of Hygiene and Public Health. He was a postdoctoral fellow in the School's Department of Epidemiology from 1971 to 1974. His creative and imaginative research in widely ranging areas of epidemiology has earned him recognition as one of the leading authorities on public health problems and health care systems in the Middle East. Not the least of his achievements has been his ability to sustain an extraordinarily productive level of research and administrative leadership in Beirut through recent times which have been marked by extreme chaos and uncertainty.
Dr. Ernesto Carafoli is professor of biochemistry at the Swiss Federal Institute of Technology in Zurich and currently a Fogarty Scholar-in-Residence at the National Institutes of Health. He was a postdoctoral fellow in the Department of Physiological Chemistry at the School of Medicine from 1963 to 1965. He is recognized as one of the world's foremost experts on calcium metabolism in both normal and pathological tissues and on the various roles which calcium plays in biological systems. He is particularly known for his research on the role of mitochondria in calcium metabolism, having helped identify both uptake and exit pathways for calcium in this organelle. He is also a widely recognized authority on the bioenergetics of normal and pathological states, and has been instrumental in organizing meetings throughout the world on bioenergetics and calcium metabolism.

Dr. Denton A. Cooley is surgeon-in-chief at the Texas Heart Institute in Houston. He obtained his M.D. degree from Johns Hopkins in 1944 and served as a surgical intern and resident in surgery between 1945 and 1950. During that time, he worked under the noted surgeon, Dr. Alfred Blalock, and became part of the small group of skilled practitioners who led the development of cardiac surgery in the United States and internationally. One of his later achievements was the development of the Texas Heart Institute, known around the world as one of the leading facilities of its kind. Among the honors he has received are the nation's highest civilian award, the Presidential Medal of Freedom, as well as the Theodore Roosevelt Award and the Rene Leriche Prize. He also holds the Distinguished Alumnus Award of Johns Hopkins University, which he continues to serve as a member of the Board of Trustees.

Dr. Gilles Marc Corcos is professor of fluid mechanics at the University of California at Berkeley. He was a postdoctoral fellow in the Department of Aeronautics at the School of Engineering from 1952 to 1954. His subsequent work was distinguished by a creative combination of theoretical and experimental studies in fluid mechanics, and he was a pioneer in measuring the pressure fluctuations and acoustical properties of turbulent boundary layers. His more recent work has focused on mathematical modeling of turbulent shear layers. His contributions have been characterized by unusually critical scrutiny of experimental techniques and by insightful mathematical modeling. He has served the Office of Naval Research as liaison scientist in Europe and was a visiting professor at the University of Grenoble, where he earned the Docteur d'Etat en Sciences Physiques.

Dr. Milton Thomas Edgerton has been plastic surgeon-in-chief at the University of Virginia Medical Center in Charlottesville since 1970. He earned the M.D. at Johns Hopkins in 1944, was resident in surgery from 1949 to 1951, and served on the full-time faculty of the School of Medicine from 1951 until 1970. His work over the years has done much to advance the field of reconstructive surgery necessitated by such conditions as birth defects, war wounds, cancer, and burns. In 1964, he opened the first interdisciplinary Gender Identity Clinic to offer surgery to transsexuals in this country. His skill and dedication have been recognized by his election to leadership positions in such prestigious organizations as the American Surgical Association, the Society of University Surgeons, the American College of Surgeons, the American Association of Plastic Surgeons, and the American Board of Plastic Surgery.
Dr. Wayne A. Hendrickson is professor of biochemistry and molecular biophysics at Columbia University. He earned a doctoral degree in biophysics at Johns Hopkins in 1968 and was a postdoctoral fellow in the Department of Biophysics in 1968-1969. He spent 15 years as a research biophysicist at the Naval Research Laboratory before assuming his present position in 1984. In a highly productive research career, he has made important advances in determining the structure of biologically important molecules through x-ray crystallography and magnetic resonance techniques. He has also made valuable contributions to the development of improved analysis techniques used in crystallography. Among many honors, he holds the Navy's Meritorious Civilian Service Award and is a Fellow of the American Association for the Advancement of Science.

Dr. Georgeanna Seegar Jones is professor of obstetrics and gynecology at Eastern Virginia Medical School in Norfolk. She earned an M.D. from the Johns Hopkins School of Medicine in 1936 and was a postdoctoral fellow from 1936 to 1939. For almost 40 years following, she was in charge of the Gynecological Endocrine Clinic at the Johns Hopkins Hospital and professor in the School of Medicine. Throughout that period, her work was complemented by that of her husband, Dr. Howard W. Jones, whom she married in 1940. In 1978, they moved to Virginia and embarked on a second illustrious career which resulted in the establishment of the first major in vitro fertilization program in the United States. For this, they have received international acclaim and serve as leading spokespeople for the procedure throughout the world.

Dr. Howard Wilbur Jones is professor of obstetrics and gynecology at Eastern Virginia Medical School in Norfolk. A 1935 graduate of the Johns Hopkins School of Medicine, he was a resident in gynecology at the Johns Hopkins Hospital from 1935 to 1937. Like his wife, Georgeanna S. Jones, he served the institution with distinction, clinically and administratively, for many years. He attained the rank of professor in 1967 and was named emeritus professor in 1976. As the second member of a world famous team, he concentrated on the surgical aspects of gynecology, with special focus on aspects of malformation and cancer. In his present work, he joins his wife in furthering the technique of in vitro fertilization at what has become one of the best known and most highly successful facilities of its kind in the world.

Dr. Robert G. Petersdorf is dean of the School of Medicine and vice chancellor for the health sciences at the University of California at San Diego. After earning an M.D. at Yale University, he was a research fellow in the Department of Medicine at Johns Hopkins from 1955 to 1957. A highly respected figure in internal and academic medicine, he has achieved distinction in research, teaching, and administration. He has served as president of the Association of American Physicians, the American College of Physicians, and the Association of Professors of Medicine, and is a member of the National Academy of Sciences—Institutes of Medicine. He has also been a forceful defender and critic of the academic medical establishment, stressing the need to adjust to changing societal pressures while remaining true to the essential mission of advancing knowledge and maintaining rigorous standards of medical education.
Dr. Raymond Seltser is dean of the Graduate School of Public Health at the University of Pittsburgh. He holds an M.D. degree from Boston University and was a postdoctoral fellow in the Department of Epidemiology at the School of Hygiene and Public Health from 1955 to 1957. He remained at the School, serving as associate dean for nine years as well as associate professor of epidemiology and deputy director of the Johns Hopkins Oncology Center. His entire career has been marked by productive application of epidemiologic science to a wide array of health problems, including influenza, pneumonia, cerebrovascular disease, and radiation hazards to radiologists and other physicians. He is also nationally recognized for his leadership in public health education. His service to numerous professional organizations includes chairmanship of the Epidemiology Section Council of the American Public Health Association.

Dr. Morton M. Weber is professor and chairman of the Department of Microbiology at the St. Louis University School of Medicine. He holds an Sc.D. degree from the School of Hygiene and Public Health and was a postdoctoral fellow at the University's McCollum-Pratt Institute from 1953 to 1956. He is an internationally recognized authority on electron transport in biologically important materials and on the effect of light and other regulators in electron transport and energy metabolism. A combination of his studies in bioenergetics led to an understanding of the mode of action of the anti-tubercular drug, isoniazid, and his work is contributing to the elucidation of new drugs for the treatment of tuberculosis and possibly leprosy. He has served as secretary, vice chairman, and chairman of the Physiology Division of the American Society for Microbiology.

Dr. William O. Williams is professor and associate head of the Department of Mathematics at Carnegie-Mellon University. He received a doctorate in applied mathematics from Brown University in 1967 and was a postdoctoral fellow in the Department of Mechanics at Johns Hopkins in 1969-1970. An authority on the mechanics and thermodynamics of mixtures, he has published numerous research papers, mainly on the foundations of continuum thermomechanics. In 1978, he was a Senior Fulbright-Hays Fellow at the University of Pisa, and has been an invited lecturer at the University of Bucharest, the State University of New York at Buffalo, the University of Minnesota, and others. He is a consultant to the Los Alamos National Laboratory and editor of an international series of monographs for Martinus Nijhoff Publishers in Holland.
Citation Read by
RICHARD P. LONGAKER

in Presenting
ALONZO GALLOWAY DECKER, JR.

for the Degree of Doctor of Humane Letters
May 30, 1986

Businessman, civic leader, conservationist and friend, you have made immeasurable contributions to this community, this State, and this University.

As chief executive of the Black & Decker Corporation, the company that your father founded, you presided over an era of unprecedented growth. It was through your efforts that Black & Decker attained a position of worldwide prominence. Now, as honorary board chairman and chairman of the executive committee, you have entered your seventh decade of company service.

Your skill as an entrepreneur is matched by your selfless dedication to community, state, and nation. But, especially, since you began serving as a university trustee in 1968, your counsel and judgment have guided the growth of this institution. As chairman of the Hopkins Hundreds Campaign, you contributed in so many ways to the success of that effort. Today, as a trustee emeritus, you continue to inspire us with your generosity of spirit and commitment to excellence.

Few individuals are endowed with your talents, and few have given more of themselves to this community and to the University. Alonzo Galloway Decker, Jr., The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, honoris causa.

Citation Read by
RICHARD P. LONGAKER

in Presenting
RHODA M. DORSEY

for the Degree of Doctor of Humane Letters
May 30, 1986

A recognized leader among the nation’s institutions of higher education, you today are President of a college with which Johns Hopkins has had long and happy relationships.

You first came to Goucher College as an assistant professor in 1954. Twenty years later, your intellect, your wit, and your managerial skills made you an obvious choice to become Goucher’s first woman president. You immediately set forth to restore the college’s financial stability, succeeding so well that today Goucher’s endowment is the second highest among Maryland’s independent colleges.

As the educational needs of women have changed, you have responded with flexibility and creativity, instituting innovative programs. Moreover, as the Goucher community has faced the prospect of coeducation, you have guided the ensuing discussions with intelligence and sensitivity.
You sit on the boards of major corporations, and the leadership skills you have demonstrated at Goucher have also benefited numerous academic and civic organizations.

Rhoda M. Dorsey, for your enormous contributions to education and to this community, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa*.

---

*Citation Read by*

*RICHARD P. LONGAKER*

*in Awarding in absentia*

*WILLIAM NEVILLE MANN*

*the Degree of Doctor of Humane Letters*

*May 30, 1986*

Physician of eminence, scholar of distinction, and teacher of merit, you have influenced countless young doctors by your teaching and erudition, by the high standards that you set for the care of the sick, and by your example.

After your career was interrupted by service in the Second World War, you returned to serve on the staff of Guy's Hospital. You became the first Director of the Department of Medicine, and in 1963 became Senior Physician to the Hospital. At the Royal College of Physicians, London, you became Senior Censor and subsequently served as Senior Vice-President of the College. You have held the appointment of Physician to Her Majesty's Household and later as Physician to the Queen. Your writings are as distinguished as your medical service, and your book, *The Medical Works of Hippocrates*, is a classic example of your scholarly art.

You were one of the physicians to visit The Johns Hopkins Hospital in the early days of the exchange of staff that occurs between Guy's Hospital and Johns Hopkins. Your continuing goodwill has helped to foster the special relations that have existed between these two great institutions for the past forty years.

William Neville Mann, in recognition of your own accomplishments and those of the hospital you have served so well, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa*.
Citation Read by
RICHARD P. LONGAKER
in Presenting
ERIC RICHARD KANDEL
for the Degree of Doctor of Humane Letters
May 30, 1986

Scientist and educator, you have profoundly changed our understanding of learning and memory, linking molecular events in the brain with mental functions.

Your interdisciplinary research has displayed a similar synthesis, combining behavioral analysis with analysis at the cellular, molecular, and genetic levels. With characteristic insight, you realized that the simple nervous system of the sea snail *Aplysia* offered possibilities for elucidating the mechanisms of learning, properties that should hold for all animals, including humans. Your studies of *Aplysia*'s defensive withdrawal reflex provided the first demonstration of a complete pathway from stimulus, through neural activity, to behavior. You further showed that learning modifies behavior by regulating the strength of electrical and chemical signals at the connecting points between nerve cells.

In building this vital bridge between the sciences of cell biology and behavior, you have opened doors that promise to reveal the biological mechanisms underlying all mental activity—thus holding out hope for more effective treatment of learning disorders, memory impairment, and many psychiatric illnesses.

Eric Richard Kandel, for your pioneering research into the still mysterious world of mind and brain, 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 the Chief Marshal, Dr. Paul R. McHugh, was first used at the 1954 Commemoration Day Exercises. Eight symbols are hand wrought in sterling silver on an ebony staff. The symbols represent man's cultural development from ancient times, through the Middle Ages and the Renaissance, to the modern era.

THE PRESIDENTIAL INSIGNIA

University President Steven Muller 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 each of the ten Johns Hopkins University Presidents are engraved on the faces of ten of the links. On the reverse are engraved the names and dates of office of each President. Ten 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 degree was earned:

- Dark blue — Philosophy
- Light blue — Education
- Orange — Engineering
- Gold-yellow — Science
- Green — Medicine
- Salmon pink — Public Health
- Pink — Music
- Purple — Laws
- White — Arts and Letters
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 | Purple — New York University |
| Light blue, white chevron — Columbia | Bright red — Wisconsin |
| Dark blue — Yale | Plum, with scarlet — London |
| Blue with white chevron — Duke | Maroon — Chicago |
| Dark blue, two orange chevrons — Illinois | Crimson — Harvard |
| Light blue, two white chevrons — North Carolina | Carnelian, two white chevrons — Cornell |
| Old gold, maroon chevron — Minnesota | Cardinal — Stanford |
| Old gold — Iowa | Red, tri-chevron in center — Heidelberg |
| Gold, blue chevron — California | Dandelion yellow — Michigan |
| Gold — Virginia | Maize, azure blue chevron — Sorbonne |
| Purple, gold chevron — Northwestern | Yellow and white — Rochester |
| Carnegie Tartan — Carnegie-Mellon |

**THE UNIVERSITY MOTTO**

Veritas vos liberabit.
The truth shall make you free

—St. John 8:32
AWARDS

IN THE SCHOOLS OF ARTS AND SCIENCES, ENGINEERING AND MEDICINE

LOUIS SUDLER PRIZE IN THE ARTS
for excellence in the visual or performing arts
Awarded to Karen King

IN THE SCHOOLS OF ARTS AND SCIENCES AND ENGINEERING

AMERICAN CHEMICAL SOCIETY, MARYLAND SECTION STUDENT AWARD
for outstanding scholastic achievement in chemistry and related disciplines by an undergraduate
Awarded to Ellen Shulman

LOUIS AZRAEL FELLOWSHIP IN COMMUNICATIONS
for demonstrated excellence in a field of mass communications
Awarded to Sujata Chris Banerjee

WILLIAM H. BAIN AWARD
for outstanding achievement by an undergraduate in the Writing Seminars
Awarded to Kevin John Sottak

BIOMEDICAL ENGINEERING AWARD
for outstanding effort in research in Biomedical Engineering
Awarded to Roger J. Hajjar
Jeane-Marie S. Robert
David M. Pressel

ALEXANDER BUTLER PRIZE
for the best research paper by a first year graduate student in History
Awarded to Elizabeth Mancke

EUGENIO AND PATRICIA CASTILLO AWARD
to the best first or second year graduate student in Political Economy
Awarded to Nancy Wagner

G. STANLEY HALL PRIZE
for outstanding achievement by an undergraduate in Psychology
Awarded to Lisa Ijiri

THE MAX HOCHSCHILD FUND
The prize is awarded annually to the undergraduate student in Business and Industrial Management who has shown the greatest promise and proficiency in this field and is awarded to
Peter C. Iacono

THE 3 ARTS CLUB OF HOMELAND AWARD
for outstanding achievement in the Writing Seminars
Awarded to Peter William Oeiilkers

AT&T INFORMATION SYSTEMS—WILLIAM HUGGINS AWARD
for outstanding service and academic achievement by a senior and junior in Electrical Engineering and Computer Science
Awarded to Dennis Allen Burton
David Harold Terry
ADOLF KATZENELLENBOGEN MEMORIAL PRIZE
for outstanding work in Art History
Awarded to Nancy Ellen Forgone

ARTHUR KOUGUELL PRIZE
for the outstanding undergraduate major in History
Awarded to Gordon Johnathan Lewis

MARTIN G. LARRABEE AWARD
for meritorious research conducted by senior undergraduates in Biophysics
Awarded to Mark Charles Hannibal

ERNEST M. MARKS AWARD
in recognition of excellence in instruction in Chemistry
Awarded to Peter S. Cooper Carl B. Friedhoff

PAUL A. McCOY PRIZE
for the most distinguished masters essay in Political Science
Awarded to Bonnie Honig

ROBERT S. PONO, SR. ACHIEVEMENT AWARD
for the graduating senior in Materials Science who best exemplifies Professor Pond's commitment to scholarly and humane values.
Awarded to Carol A. Lebowitz

SARAH & ADOLPH ROSEMAN ACHIEVEMENT AWARD
in recognition of outstanding accomplishment in Chemistry
Awarded to Beth A. Dombroski John M. Wetzel

ROYAL SOCIETY OF ARTS SILVER MEDAL
for distinguished achievement by an undergraduate in the application of art or science to the field of commerce or industry, and for significant participation in student activities.
Awarded to Carol Ann Lebowitz

JULIAN C. STANLEY AWARD
for the undergraduate psychology major who most closely approximates Dr. Stanley's personal and professional standard of excellence
Awarded to Susan Dauber

JULIUS TURNER PRIZE
for the most distinguished senior thesis in Political Science
Awarded to Janice Raye Wingo

JOHN BOSWELL WHITEHEAD AWARD
for outstanding achievements by an undergraduate in Electrical Engineering and Computer Science
Awarded to John Francis Kutcher

LOY WILKINSON AWARD
for a demonstrated record of academic excellence, leadership, and service in Chemical Engineering
Awarded to Marcia Lacrone
IN THE PEABODY CONSERVATORY OF MUSIC

THE HAROLD RANDOLPH PRIZE
Awarded to Paul Grove

THE MARYLAND STATE TEACHERS ASSOCIATION PRIZE
Awarded to Margaret Lyle Demarest-Few

THE EDITH AND IRENE ASHWORTH PRIZE
Awarded to Karen Lynn Small

THE BALTIMORE MUSIC CLUB AWARD IN ACCOMPANYING
Mark Markham

THE PAULINE FAVIN MEMORIAL AWARD IN PIANO
Kristie Renee Born

OTTO ORTMANN AWARD IN COMPOSITION
J. Mark Stambaugh

THE JOSEPH KASPER AWARD IN VIOLIN
Marc A. Ramirez

THE ZAIDEE T. THOMAS AWARD IN VOICE
Maria Tezges

THE ZAIDEE T. THOMAS INSTRUMENTALIST AWARD
Robert David Lauver
Lou Ann Pfeil

THE GEORGE CASTELLE MEMORIAL AWARD IN VOICE
Catherine Louise Thorpe

IN THE SCHOOL OF NURSING

ROBERT G. MERRICK AWARD
to a student demonstrating outstanding leadership in the field of nursing.
Awarded to Bernard V. Keenan

RESEARCH AWARD
to a student demonstrating intellectual curiosity and creativity in nursing research.
Awarded to Clare M. Blau

MARY AND GRAINGER MARBURG AWARD
in recognition of a student who consistently exhibits outstanding clinical nursing expertise.
Awarded to Barbara W. Schweizer

ACADEMIC EXCELLENCE AWARD
to a student whose academic performance has been judged to be outstanding.
Awarded to Barbara W. Schweizer

ELEANOR WADE CUSTER AWARD
to a student who most successfully combines commitment to the nursing profession with sensitivity to one's fellow man.
Awarded to Cecil L. Taylor
IN THE SCHOOL OF CONTINUING STUDIES

DELTA SIGMA PI SCHOLARSHIP KEY
in the Division of Administration and Business for the highest average in the undergraduate programs
_Awarded to Bridget Dukehart_

EDWARD J. STEGMAN, C.P.A., MEMORIAL AWARD
in the Division of Administration and Business for excellence in the study of Administrative Science at the graduate level
_Awarded to Joanna Woo Allen
Michael Paul Caldwell
Sheryl Renee Conwell
Eric William Gregory
Dawn Susan Hedley
Louis Henry Kirstner, Jr.
Jenny Goodman Morgan_

WALL STREET JOURNAL STUDENT ACHIEVEMENT AWARD
in the Division of Administration and Business for outstanding scholarship in the undergraduate programs and exceptional promise of future success
_Awarded to Gloria Bryan_

IN THE SCHOOL OF MEDICINE

HENRY STRONG DENISON SCHOLARSHIP
for excellence in biomedical research
_Awarded to
Gregory Goodwin (1983-84)
Catherine Ruth Hoff (1983-84)
Julie Zrubek Livingston (1985-86)
Catherine Anna Marco (1983-84)_

SANDOZ AWARD
for excellence in the field of Pharmacology
_Awarded to Jonathan Allen Javitch_

LAUREL AND CLARENCE H. KOENNECKE AWARD
for most promise in the surgical field of gynecology
_Awarded to Arlene Joan Morales_

THE FRANKLIN PAINE MALL SCHOLARSHIP IN ANATOMY
in recognition of outstanding accomplishment
_Awarded to Christopher Guerin
Abraham Michael Lincoff
Lois Ellen Nielsen_

THE PAUL EHRLICH AWARD IN CLINICAL INVESTIGATION
in recognition of outstanding research accomplishment
_Awarded to William Seth Aronstein_

THE PAUL EHRLICH GRADUATE STUDENT AWARD
_Awarded to Raimond L. Winslow_

THE PAUL EHRLICH AWARD FOR BASIC SCIENCE INVESTIGATION
_Awarded to Rosario Richard Trifiletti_

HAROLD LAMPORT BIOMEDICAL RESEARCH SCHOLAR
for meritorious research completed during medical training
_Awarded to Emily Lucy Germain
Rodney Scott Owen_

CIBA AWARD FOR OUTSTANDING COMMUNITY SERVICE
_Awarded to Travis Case Holcombe_
THE WILLIAM L. STRAUSS, JR. SCHOLARSHIP AWARD
for outstanding research in Cell Biology and Anatomy
Awarded to KEVIN LAWRENCE GARDNER

MICHAEL A. SHANOFF RESEARCH AWARD
for significant research contribution in the medical sciences
Awarded to
STEPHEN C. CANNON (1985)
HANS JOAQUIM PROCHASKA (1986)
STEPHEN MARK STRITTMATTER (1985)

IN THE SCHOOL OF HYGIENE AND PUBLIC HEALTH
ALUMNI ASSOCIATION SCHOLARSHIP AWARD
to a student of outstanding promise
Awarded in 1981 to LORRAINE LITWINSKI CAMERON
Awarded in 1983 to JOANNE F. DORGAN

FREDERIK B. BANG AWARD FOR STUDENT RESEARCH
for an outstanding research idea in the area of Pathobiology
Awarded in 1985 to LESLIE A. LEONARD

RUTH FREEMAN AWARD
to a nurse deemed to have produced the outstanding doctoral thesis
Awarded to JANE MCAINANY JACOBSON
JANET LEE STANFORD

JOHN C. HUME AWARD
for significance of doctoral research in the Department of Health Policy and Management
Awarded to C. ALAN LYLES

JOHN C. HUME AWARD
to a Master of Public Health graduate for academic excellence and professional promise
Awarded to ROBERT WILLIAM KNELLER

CORNELIUS W. KRUSE AWARD
for the outstanding dissertation in Environmental Health
Awarded to JEFFrey VAUGHN JOHNSON

LONG AND WIDMONT MEMORIAL FOUNDATION AWARD
for academic achievement
Awarded in 1983 to JOSEPH GERALDO JACANGELO

IN THE 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
Awarded to CHRISTINE BEER BRAUN
BREWER STEVENSON STONE
CHUONG TRAN-SI

CHRISTIAN A. HERTER FELLOWSHIP
to the member of the second year class with the most outstanding record during the first year
Awarded to WEI-CHENG WANG

SAIS STUDENT POLICY FORUM PRIZE
to that student who by written and oral argument has made the most cogent presentation on an international policy issue
Awarded to ANNE WILSON MITCHELL
HONOR SOCIETIES

PHI BETA KAPPA

From the Junior Class in the School of Arts and Sciences

Susan Bernofsky
Andrea Bruce
Michael Gatzke
Amit Gupta
Gregory Hung
Alfonso Iasiello
Crystal O’Bryan
Sanjiv Patel

From the Senior Class in the School of Arts and Sciences

Elected in 1984-85

Kathleen Susan Faust
Allen David Hamdan
Mark Charles Hannibal
Peter Charles Iacono
Laurance Wing-Hong Kam
Elizabeth Sharon Kelly
Hyung Min Lim
Sheri Lynn Nimetz
Ronit Simantov

Elected in 1985-86

Stephen Antrobus
Sandra Babcock
Michael Brown
Linda Carruba
Russ Carstens
Stefano Cazzaniga
Martin Citardi
Pilar Cuesta
Susan Dauber
Frank DelVecchio
Tamar Donovan
Ronald DeMatteo
John Drago
Dan Eddin
Louise Ferreyti
David Fry
Joan Go
Robin Gugenheim
Ava Hansen
Jay Kaufman
Richardo Metz
Vinod Misra
John Myseros
Krishna Niyogi
Peter Oehlkers
Christopher Padilla
Leah Rosenberg
George Rudkin
Anthony Russo
Jerry Schienayder
Andrew Schulick
Tammy Smecker
Neil Worrall

From the School of Medicine

Christopher Guerin

From the School of Hygiene and Public Health

Jacqueline Agnew
Muin J. Khoury

TAU BETA PI

NATIONAL ENGINEERING HONOR SOCIETY

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

Michele Julia Andrys
Claire Ann Battistella
Tomasz Michal Beer
Kurt R. Budelmann
Lawrence Noah Eisenman
Robert Charles Gensure
Douglas Gordon Gibson
Susan Gail Gorozdos
Gary Andrew Henry
Khalil Ahmed Jaoumi
Stanley Timothy Lau
Elisabeth M. Louwers
J. Jeremy Rice
Luchy Daniel Roteljuk
Scott H. Seidman
Anne K. Skaja
Khaled Aly Tawansky
David H. Terry
From the Senior Class in the G.W.C. Whiting School of Engineering
Elected in 1984-85

James Matthew Burck
Gregory Lee Burks
Dennis Allen Burton
James Thomas Cardwell
Ga-Yin Chan

John McCann Cunniff
James Theodore Everett
Roger Joseph Hajjar
Charn Kiatboonsri
Marcia Saralene Lecrone
Sung Moo Lee

Laurence E. Mermelstein
Ayesa Nazneen Mian
Christian Victor O’Keefe
Santiago Perez
Noelle Rose Scaldara

Elected in 1985-86

Aristotle Nicholas Balogh
Jeanne Chu
William Joseph Dwyer
Barbara Dean Hayes
Duk Jin Im

Margaret Angela Kappel
John Francis Kutcher
Tri Luu Pham
Stephen Gordon Pimentel
Neil Cleveland Porter
David Michael Pressel

Thomas Allen Pruitt II
Tristan Jorge Tayag
Kahung George Ting
William Richard Wagner
William Edward Wallace III
Audrey Therese Winget

From the Part-Time Engineering Program

Russell Edward Barylon
David Hugh Brown
George Russell Dansberger

Lance Martin David
Henry Joseph Fleischman
Vernon Wayne Grapes

Charles Alan McEvoy
Jon Morlock
William Quillen

ALPHA OMEGA ALPHA
Honor Medical Society

Lee Scott Albert
Gregory John Duncan
Christopher Guerin
Jonathan Allen Javitch
Suzanne Julia Koven
Moira Julia Koven
Steven Bernard Laster

Abraham Michael Lincoff
Clifford Arthur Lowell
Lois Ellen Nielsen
Jeffery Lee Pierson
Hans Joaquim Prochaska
Barry Kennedy Rayburn
Mark Steven Schlissel

Jay Marvin Schlumpberger
Linda Elinor Skinner
Rosario Richard Trifiletti
Thai Duc Trinh
Debbie Lakin Weaver
Jess Thomas Whitson
Matthew R. Wolff

DELTA OMEGA
National Public Health Honor Society

Peter Geoffrey Bars
Deborah Lynn Brimlow
Lorraine Litwinski Cameron
William John Cunningham
Marianne K. Floor-Ossendrijver
Victoria L. Han
Brigitte Helynck
Jane McAnany Jacobson
Michael John Keane
Muin Joseph Khoury

Robert William Kneller
Deloris Elizabeth Koziol
Jin Hwa Lee
Robert Alan Livingston
Mary Frances Lowe
C. Alan Lyles
Kelly Tilson McKee, Jr.
Marilyn Menkes
Deborah Claire Molrine
Edgar I. Necochea

Relford Eugene Patterson
Krishna Gopal Rampal
Kathryn M. Rost
Mohara de Moraes Ruehsen
Rona Sayetta
Susan Schober
Sarah Ruth Simon
Ronald Edward Voorhees
Karen Michele Webster
Curtis Wright IV

PI KAPPA LAMBDA
National Music Honor Society

Moli Chiang
Mark Kennerly Clinton
Kyoko Fujiwara

Paul Grove
James Andrew John Katchko
Kevin Park Kenner

Genevieve Feiwen Lee
Mark Markham
Sun Chiao-Ling
HONORS

Baccalaureate Candidates in the School of Arts and Sciences

Graduating with General Honors

Tara Illeana Allmen
Stephen David Antrobus
Sandra Lynn Barcok
Joan Catherine Bartlett
Beth Diane Berman
William Emanuel Bingaman
Phillip Stuart Blum
Christopher Robert Briggs
Michael Eric Brown
Margaret Elise Burns
Michael Douglas Cantor
Linda Lamar Carrubba
Russ Paul Carstens
Sean O. Casey
Geoffrey Ward Clement
Pilar Cuesta
Susan Lynn Dauber
Frank Del Vecchio
Ronald Paul DeMatteo
Christopher Disimone
Tamar Alicia Donovan
John Andrew Drago
Catalino Icasia Dureza
Dan Samuel Edidin
William C. Edwards, III
Katherine Lynn Eubanks
Kathleen Susan Faust
David Fernandez
Gihan Suranjian Fernando
Paul Anthony Ferrer
Louise Emily Ferretti
David Spotts Fry
Carla Marie Giannoni
Robert Andrew Gilbert
Joan Maychu Go
Bryan Douglas Goldberg
Marc Fredrick Greenberg
Karen Louise Grissmer
Robin Lynn Gugenhaim
Allen David Hamdan
Mark Charles Hannibal
Ava Marilyn Hansen
John Charles Heil
Hector Hernandez-Jamardo
James George Hoff
Steven Jay Howard
Peter Charles Iacono
Lisa Ijiri
Lauri Marie Jackson
Sanjaya Jha
Theodore Joseph Johnson
Laurence Wing-Hong Kam
Robert Keith Kannenberg
Michael David Karpa
Jay Scott Kaufman
Gerald Edward Keightley
Elizabeth Sharon Kelly
Babak Khoshinood
John Christopher Kilgallon
Jonathan David Krishner
Lynn Debra Kowalski
Jodi Claire Krugman
Anastacia M. Kuvshinoff
Christopher J. Kwon
Eric Jonathan Lang
John Albert Laslegne
Kennal Kyung-Hoon Lee
Robert Lee
Steven Carl Lessoff
Hyung Min Lim
Deborah Gail Limmer
Louis Hsi-Tein Liu
Kathleen Roberta Lockhart
Patrick Michael Mardesich
Allan ToddMarks
Steven Walter Medwid
Paul Bruce Miller
Nader Roy Mohtadi
Michele Staci Moise
Jonathan Toby Mordkoff
Maryanna Moskal
William John Mullane
John Socrates Myers
Robert John Nardino
Sheri Lynn Nimetz
Peter William Oehlkers
Joshua Mark Olshin
Michelle Dianne Onello
Jeffrey Rawson Park
Achyut Shashikant Patel
John Chihi Peng
Catherine Raeff
Mark Wesley Reckson
Christine Ellen Ritchie
Matthew Robert Rockwood
Jeffrey Marc Rothfeld
George Henry Rudkin
Anthony Michael Russo
Andre Hani Saad
Mark Ira Salevitz
Jerry Anthony Schexnayder
Andrew Howard Schulick
Kim Seunghwan
Ellen Mindy Shulman
Aamir Siddiqui
Ronit Simantov
Davide Keith Simon
David Andrew Stein
Rita Suri
David Ian Teitel
William Viqueira
Kevin Dewey Ward
Jerry Lynn Watson
Jordan Lee Weinstein
R. Parker Williams, Jr.
Rachel Kathleen Wolford
Neil Kevin Worrall
Albert Min-Hsien Young
Amy Ann Zimmerman
Baccalaureate Candidates in the G.W.C. Whiting School of Engineering

Graduating with General Honors

Aristotle Nicholas Balogh
James Matthew Burck
Gregory Lee Burks
Dennis Allen Burton
Christopher Calingaert
James Thomas Cardwell
Ilga Celmins
Vitus Joon Tsi Chow
John McCann Cunniff
William Joseph Dwyer
James Theodore Everett
Roger Joseph Hajjar

Barbara Dean Hayes
Morgan Chih-Hsue Huang
Dukjin Im
Timothy Tamim Khater
Charn Kiatboonsri
Marzia Saralene Lecrone
Sangkyune Lee
Karen Joy Leong
Andrew Menching Liu
Laurence E. Mermelstein
Ayesa Nazneen Mian
Michael Niv

Christian Victor O’Keefe
Shilpesh Shanthil Patel
Stephen Gordon Pimentel
Neil Cleveland Porter
David Michael Presel
Alden Mark Provost
Thomas Allen Pruitt, II
Robert Grady Roberds
Noelle Rose Scaldara
William Richard Wagner
William Edward Wallace, III
John Anthony Zappone

Baccalaureate Candidates in the School of Arts and Sciences

Graduating with Departmental Honors

Nathalie Barbe
Patrick Begos
Patrick Capuano
Russ Carstens
Vincent Chua
Susan Dauber
Frank DelVecchio
Marcus De Ruig
Chris DeSimone
Tamar Donovan
Dan Edidin
Katherine Eubanks
David Fernandez
Gihan Fernando
Alan Freudenstein
David Fry

Karen Fyfe
John Ghikas
Karen Grissmer
Peter Iacono
Lisa Ijiri
Lauri Jackson
Sanjaya Jha
Theodore Johnson
Laurence Kam
Scott Kamber
Robert Kannenberg
Jay Kaufman
John Kilgallon
Jonathan Kirschner
Robert Lee
Gordon Lewis

Ruel Little
Maryanne Moskal
William Mullaney
Sheri Nimetz
Peter Oehlers
Joshua Olsin
Christopher Padilla
Arun Rangaswami
Matthew Rockwood
Leah Rosenberg
Ronit Simantov
Tammy Smeecker
William Viquiera
Kevin Ward
John Waters
Albert Young

Graduates from the Biology Honors Program

Sanjaya Jha
Robert Lee

Graduate from the Humanistic Studies Honors Program

Elizabeth Kelly
Tyrus Miller

—25—
Baccalaureate Candidates in the G.W.C. Whiting School of Engineering
Graduating with Departmental Honors

Aristotle Balough
Thomas Beer
Kelly Boyd
James Burck
Gregory Burks
Dennis Burton
James Cardwell
Christopher Calingaert
Ilga Celmins
John Cuniff
William Dwyer
James Everett
Roger Hajjar
Barbara Hayes
Marcy Herman

Morgan Huang
Dukjin Im
Charn Kiatboonsri
John Kutcher
Carol Lebowitz
Marcia LeCrone
Sangkune Lee
Sung Lee
Karen Leong
Laurence Mermelstein
Shilpesh Patel
Tri Pham
Michael Phillips
Stephen Pimental
Neil Porter

David Pressel
Alden Provost
Thomas Pruitt
George Raiser
Robert Roberds
Noelle Scaldara
Michael Silverman
Tristen Tayag
Kahung Ting
Christian Turner
William Wagner
William Wallace
John Zappone

Baccalaureate Candidates in the School of Continuing Studies
Graduating with Honors

Cynthia Ann Bell
Linda Bihun-Werner
Alan Jay Blumenthal
Gloria Bryan

Phillip Foote, Jr.
Linda Graham
Albert Griffith
John Koelbl

Mark Lewitan
Esther Lupton
Shirley Poling
CANDIDATES FOR DEGREES
as of May 13, 1986

A number of the students included in the lists which follow completed their degree requirements earlier in the academic year and could not be present today to receive their degrees in person.

BACHELORS OF ARTS
in The School of Arts and Sciences

David K. Ades, of Babylon, N. Y.
Tara Illeena Allmen, of New York, N. Y.
Saeed Aminzadeh, of Tehran, Iran
Andrew Paul Amunategui, of Hallandale, Fla.
Stephen David Antrobus, of Baton Rouge, La.
Luis Raol Arroyo, of San Juan, Puerto Rico
Douglas Leonard Atlas, of Warren, N. J.
Herman Palileo Ayayo, of Emerson, N. J.
Farrukh Amin Azfar, of Karachi, Pakistan
Sandra Lynn Babcock, of Lutherville, Md.
Sujata Christine Banerjee, of St. Paul, Minn.
John H. Banister, of Rowlesburg, W. Va.
Natalie Joe Barbe, of New York, N. Y.
William Neal Barnett, of College Park, Md.
Alan Michael Barry, of Chapel Hill, N. C.
Joan Catherine Bartlett, of Cape Girardeau, Mo.
John William Barton, of Weston, Conn.
Patrick Walter Begos, of Crestwood, N. Y.
Regina Mary Beleckas, of Hagaman, N. Y.
Geoffrey Thomas Bender, of Wayside, N. J.
Ronald M. Benoit, of Oakhurst, N. J.
Melissa Rachel Berger, of New Haven, Conn.
Andrew Charles Bilello, of Setauket, N. Y.
William Emanuel Bingaman, of Camp Hill, Pa.
Rebecca Marie Bjornson, of Fairfax, Va.
Philip Stuart Blum, of Dallas, Texas
Anne Catherine Bobchick, of Brooklyn, N. Y.
Stephanie Clintowia Boddie, of Baltimore, Md.
Matthew Richard Hook Borsch, of Berkeley, Calif.
Virginia Aileen Boundy, of Orleans, Mass.
Morgan Lou-Jacques Breche, of Calgary, Canada
Michael John Brady, of Whitestone, N. Y.
Karrie Ann Brenneman, of Clemmons, N. C.
Jennifer Lynn Brezenoff, of East Rockaway, N. Y.
Craig Alan Brooks, of Essex, Md.
Deane Beth Brown, of Highland Park, Ill.

Michael Eric Brown, of Jericho, N. Y.
Paul Joseph Bruha, of Severna Park, Md.
Eric Owusu Buadu, of Gaithersburg, Md.
Maija Lisa Burns, of Baltimore, Md.
Margaret Elise Burns, of Macon, Ga.
Scott Patrick Burns, of Baltimore, Md.
Ellen Joy Burroughs, of Bowie, Md.
Margaret Elizabeth Butler, of Baltimore, Md.
Michael Douglas Cantor, of Chesterfield, Mo.
Patrick John Capuano, of Washington, D.C.
Dino Enrico Cardone, of Newburgh, N. Y.
Jennifer Susan Carri, of Lloyd Harbor, N. Y.
Linda Lamar Carrubba, of Baldwin, N. Y.
Russ Paul Carstens, of Oshkosh, Wis.
Sean Owen Casey, of Wantagh, N. Y.
David S. Castle, of Jenkintown, Pa.
Maria-Victoria Chattey, of Irvington, N. Y.
Vincent Pin Heng Chua, of Singapore.
Robert Alan Coates, of Hagerstown, Md.
Dale Thomas Alan Cochran, of Milford, Conn.
Rachel Beth Cohen, of Framingham, Mass.
Amy Lee Compton, of Webster Groves, Mo.
Darrell Edward Cook, of Washington, D. C.
Teresa Cecelia Cook, of Parker, Colo.
Michael L. Cosgrove, of Watertown, N. Y.
Brendan Augustin John Courtney, of Glen Arm, Md.
Gerard Lawrence Coy, of River Edge, N. J.
Wayne Samuel Creadick, Jr., of Upper Marlboro, Md.
Michael Paul Cucka, of Scituate, Mass.
Marie del Pilar Cuesta, of Baltimore, Md.
David Edward Cullen-Vidal, of Santurce, Puerto Rico
John Pauly Cummings, of Dartmouth, Mass.
Olumide A. Danisa, of Oklahoma, City, Okla.
Susan Lynn Dauber, of Oakland, N. J.
Emily Clarke De Coster, of New York, N. Y.
Lucy Alexander Price, of Quebec, Canada  
Julian Arthur Procope, of Barbados, West Indies.  
Bernard Henry Pygon, of Chicago, Ill.  
Catherine Raeff, of Tenafly, N. J.  
Diana Francesca Raimondi, of New York, N. Y.  
Byron Allen Raines, of Baltimore, Md.  
Karen Louise Raisbeck, of Wilton, Conn.  
Arun Atreiya Rangaswami, of Rockville, Md.  
Ethan Rarick, of Eugene, Ore.  
Mark Wesley Reckson, of Palm Beach, Fla.  
Steven Donald Riesz, of Bethesda, Md.  
Christine Ellen Ritchie, of Auburn, Mass.  
Walter David Ritchie, of Salem, Ohio  
Nancy Robbins, of New York, N. Y.  
Irene Victorine Robinson, of Greenwich, Conn.  
Matthew Robert Rockwood, of New York, N. Y.  
Carmen Julia Rodriguez, of Brooklyn, N. Y.  
Elizabeth Jeane Rosen, of South Orange, N. J.  
Michael Rosenberg, of Wayland, Mass.  
Jeffrey Marc Rothfeld, of Framingham, Mass.  
Timothy Friedman Rozan, of Ho Ho Kus, N. J.  
Mitchell Barry Rubin, of Miami, Fla.  
George Henry Rudkin, of Wilmington, Del.  
Anthony Michael Russo, of Hauppauge, N. Y.  
Terrence Daniel Ryan, of Merrick, N. Y.  
Andre Hani Saad, of Brooklyn, N. Y.  
Ronald Caesar Sabbagh, of Brooklyn, N. Y.  
Edith Elizabeth Ann Saldier, of Weston, Vt.  
Mark Ira Salevitz, of Doughkeepsie, N. Y.  
Jill Lori Salzman, of Margate, N. J.  
Joan Ellen Sanford, of Reno, Nev.  
John Joseph Santaniello, of Concord, Mass.  
Dorene Marie Schaub, of Suffern, N. Y.  
Edwin Ritchie Schell, of Baltimore, Md.  
Jerry Anthony Schexnayder, Jr., of Baltimore, Md.  
Thomas Maximilian Schiller, of Rockford, Ill.  
Barry David Schocket, of Mountain Lakes, N. J.  
David Alan Schrader, of Staten Island, N. Y.  
Christopher Charles Schreiber, of Holbrook, N. Y.  
Andrew Howard Schuck, of Kensington, Md.  
Phillip J. Seifert, of Brewster, N. Y.  
Kim Seungwhan, of Brooklyn, N. Y.  
Wales Reng Shao, of Los Angeles, Calif.  
David Ian Shapiro, of Great Neck, N. Y.  
Denise Louise Shashesh, of Edwardsville, Ill.  
Britt Allen Shaw, of Heber Springs, Ark.  
Maureen Christina Shea, of Oyster Bay Cove, N. Y.  
Jules Shin, of Williston Park, N. Y.  
Ellen Mindy Shulman, of Baltimore, Md.  
Aamir Siddiqui, of Schaumburg, Ill.  
Charles John Sikorsky, Jr., of Carney, Md.  
Scott Wayne Silodor, of Kinnelon, N. J.  
Herman Rafael Silva, of San Juan, Puerto Rico  
Ronit Simantov, of New York, N. Y.  
David Keith Simon, of Evanston, Ill.  
David Meyer Simon, of Urbana, Ill.  
Ian Bradford Simpson, of Baltimore, Md.  
William Single IV, of Baltimore, Md.  
Kristen Skedgell, of Roxbury, Conn.  
Tammy Ann Smecier, of Munhall, Pa.  
Duncan Atkins Smith, of Holmdel, N. J.  
Tamara Lynn Sofia, of New Haven, Conn.  
Kevin J. Sottak, of Nashua, N. H.  
Alison Louise Spiegler, of Williamsville, N. Y.  
Frederick Michael Steffens, of Jessup, Md.  
Francois Mark Steichen, of Larchmont, N. Y.  
David Andrew Stein, of Pine Brook, N. J.  
James Phillip Steindecker, of New York, N. Y.  
Maryann Stephens, of Binghamton, N. Y.  
Judith Michelle Stone, of Longmeadow, Mass.  
Ronald Phillip Sugarman, of Bowie, Md.  
James Joseph Sullivan, of Paramus, N. J.  
Rita Anshu Suri, of St. Louis, Md.  
Philip H. Swanson, of Minneapolis, Minn.  
Pamela Eve Swedlow, of Pittsburgh, Pa.  
Lisa Gay Tabor, of St. Louis, Mo.  
Bonne Jean Kuo Tai, of Newton, Mass.  
Steven Roger Talan, of Garden City Park, N. Y.  
David James Tardio, of Wyckoff, N. J.  
Laurent Monnet Taylor, of New York, N. Y.  
David Ian Teitel, of Hewlett, N. Y.  
John Alwyn Terlizzi, of North Haledon, N. J.  
Henry Clark Thielemann, of Ellicott City, Md.  
Michael Ellsworth Thompson, of Gambrills, Md.  
Tatiana Grande Toole, of Chicago, Ill.  
Cesar Alberto Torres, of Hollis, N. Y.  
Stephen Ettore Tristani, of Baltimore, Md.  
Miriam Emilie Tucker, of Pittsburgh, Pa.  
Dirk Eric Van Dyke, of New Carrollton, Md.  
Virginia Montserrat Veiga, of Baltimore, Md.  
Eltanice Trussey Venable, of Baltimore, Md.  
John Richard Vender, of Trenton, N. J.  
Jon Sanford Vernick, of Middletown, N. J.  
William Viqueira, of Union City, N. J.  
Jeffrey Scott Vogel, of Andover, Mass.  
Claudio Luis Vera, of Washington, D. C.  
Catherine Marie Wachtler, of Sudbury, Mass.  
Beth Anne Rose Wallen, of Short Hills, N. J.  
Kevin DeWayne Ward, of Brandon, Fla.  
Clifford Lee Wasser, of Syosset, N. Y.  
John Paul Waters, of Brooklyn, N. Y.  
Charles Caldwell Watson, Jr., of Pottstown, Pa.  
Jerry Lynn Watson, of Colorado Springs, Colo.  
Anne Renee Weiner, of North Caldwell, N. J.  
Marianne Kleinig, of New York, N. Y.  
Jordan Lee Weinstein, of Skokie, Ill.  
Hali Elise Weiss, of Port Jefferson, N. Y.  
Cara Whitehead, of Kingwood, N. J.  
Richard Kenneth Wilkens, of Stony Brook, N. Y.  
R. Parker Williams, Jr., of Greensboro, N. C.  
Thomas Binney Williamson, of Honolulu, Hawaii  
David Blair Wilson, of Columbia, S. C.  
Jacqueline Bouvier Wilson, of Brooklyn, N.Y.  
Janice Raye Wingo, of Ventura, Calif.  
Matthew de Forest Wohl, of Stockbridge, Mass.  
Rachel Kathleen Wolford, of Upper Marlboro, Md.  
Susan Anne Wonsiewicz, of Summit, N. J.  
Ian Arthur Douglas Wooding, of Miramar, Fla.  
Ann Marie Woods, of Kingston, N. Y.  
Neil Kevin Worrall, of Hinsdale, Ill.  
Takashi Yamada, of Tokyo, Japan  
Kenneth Edward Yang, of East Brunswick, N. J.  
Albert Min-Hsien Young, of Potomac, Md.  
Axel Anderson Yup, of Phoenix, Ariz.  
Amy Ann Zimmerman, of Annapolis, Md.
BACHELORS OF SCIENCE IN BIOMEDICAL ENGINEERING
in The G.W.C. Whiting School of Engineering

Gregory Lee Burks, of Adelphi, Md.
Vitus Joon Tsi Chow, of Hong Kong
William Joseph Dwyer, of Denver, Colo.
Howard Neal Flaxman, of Williamsville, N. Y.
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Barry Briggs Dove, of Baltimore, Md. Music Education.
Thomas S. Edwards, of Glen Arm, Md. Music Education.
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Kyoko Fujiwara, of Evanston, Ill. Piano.
John Francis Gibbons, of Richfield, Minn. Composition.
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Ronen Abraham Kory, of Petah Tikva, Israel. Violincello.
Genevieve Feiwen Lee, of York, Penna. Piano.
Kevin Park Kenner, of Coronado, Calif. Piano.
Norman Lee Ting Keung, of Hong Kong. Piano.
Mark R. Martin, of Hollywood, Fla. Horn.
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Methods of Band Survival Analysis: Applied to Studies of the Tundra Swan (Cygnus columbianus columbianus).

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Changes in Sperm Quantity, Sperm Motility and Sperm Morphology in Rats Treated with Testosterone and Testosterone-Estradiol: Its Correlation with Fertility.

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Immunity to BK Papovavirus in Normal Individuals and Allogeneic Bone Marrow Transplant Recipients.

Formation and Function of the Pronucleus Following Fertilization of the Hamster, In Vivo and In Vitro.

Methods for the Analysis of Interval Censored Data with an Application to PCB Levels in Adipose Tissue of Transformer Repair Workers.

Jessica Halprin, of Chicago, Ill.; B.A. Swarthmore College, 1982. Immunology and Infectious Diseases.
Serological Analysis of Epstein-Barr Virus Infections Using a Bacterially Synthesized Early Antigen (EA)

Case-Control Studies: As Reviewed Through Published Literature.

Differences in Village Level Fertility and Mortality Rates in Rural Bangladesh.

Oral Contraceptive Use, Alcohol Consumption and Plasma Lipid and Lipoprotein Levels.

Odds Ratio Regression for Serial Data.

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Self-Care Behaviors in Diabetes.

A Comparison of Four Models for Change in Visual Acuity Over Time.

Confidence-Power Drinking in a Sample of Baltimore Women Drinkers.

The Value of Using Incentives in a Smoking Cessation Program.

The Monoclonal Gammopathies: Characterization and Clinical Associations in a Hospital Population.

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Bacteremia in a General Hospital.
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Brian C. Swing, of Niederndorf, of Austria; B.A. Reed College, 1984.


Kanako Toda, of Kumamoto, Japan; B.A. Kansai University, 1982.


Chuong Tran-Si, of El Cerrito, Calif.; B.S. University of California at Berkeley, 1977.


Takashi Uchida, of Chiba, Japan; B. Econ. University of Tokyo, 1979.

Lila Vad, of Los Angeles, Calif.; B.A. University of California at Los Angeles, 1984.

William J. Valdez, of Alexandria, Va.; B.J. University of Texas, 1980.

Peter A. Van de Vijer, of Lochristi, Belgium; Licentiaat Rechten University of Ghent, 1984.


Howard Ferrel Veal, of Westbury, N.Y.; B.A. Georgetown University, 1982.

Sarah Ellen Veale, of Exeter, N.M.; B.A. Trinity College, 1981.

Fernando Vicente Vila, of Madrid, Spain; Licenciado Universidad Complutense Madrid, 1982.

Peter Vreca, of Linz, Austria; Mag. iur University of Graz, 1983.

Patricia K. Waer, of Evergreen, Colo.; B.A. Tulane University, 1981.


Courtney Clonard Walsh, of Easton, Md.; B.A. Georgetown University, 1983.

Wei-cheng Wang, of Kaohsiung, Taiwan; B.A. National Taiwan University, 1982.


William Travis Warlick, of Sugarland, Texas; B.A. University of Virginia, 1983.

Karsten Warnecke, of Berlin, Germany; B.A. Freie Universität Berlin, 1984.

Neimah Hashi Warsame, of Mogadisho, Somalia; B.A. Spelman College, 1984.


Daniel Todd Westrick, of San Diego, Calif.; B.A. University of California at Berkeley, 1980.

Deborah L. Wetzel, of Watchung, N.J.; B.A. Smith College, 1983.


Kevin Woodfield, of Rugby, England; B.A. Nottingham University, 1979.


MASTERS OF ARTS
in The School of Medicine

Thomas J. Handler, of Woodbridge, Conn.; B.S. Yale University, 1982. History of Medicine.

Creation of an Organized Uniform Ambulance Service for the Armies of the United States During the Civil War: The Events Contributing to the Passage of the Ambulance Corps Act of 1864.

Sarita H. Hleap, of Atlanta, Ga.; B.F.A. University of Georgia, 1981. Medical and Biological Illustration.

An Illustrated Prosector's Manual for Autopsy Procedures.

Diane T. Hodgkins, of Las Vegas, Nev.; B.S. Northern Arizona University, 1981. Medical and Biological Illustration.


Thinking About High Blood Pressure: Theodore C. Janeway and the Clinical Investigation of Hypertension.

Joel Thorp Katz, of Glencoe, Ill.; B.A. Earlham College, 1981. Medical and Biological Illustration.

The Mechanisms of Extraocular Muscle Injury in Orbital Floor Fractures.

Timothy A. Vojt, of Baltimore, Md.; B.A. University of Denver, 1984. Medical and Biological Illustration.

A Table of Normal Development of the Poison Arrow Frog, Dendrobates auratus, with an Examination of Developmental Abnormalities.

Mark Mitchell Miller, of Raytown, Mo.; B.F.A. University of Missouri-Columbia, 1982. Medical and Biological Illustration.

Thyroid Patient Simulator, an Instructional Model for the Palpation of the Normal and Abnormal Thyroid Gland.

Corinne Sandone, of Sandy Hook, Conn.; B.A. Oerblin College, 1982. Medical and Biological Illustration.

Bay Life and Habitats Flash Cards, Marine Biology of the Chesapeake Bay in Maryland.

Lorraine D. Sneed, of Campbell, Calif.; B.A. University of California (Davis), 1984. Medical and Biological Illustration.

Temporal Bone Ultrastructures: Optimal Planes of Visualization by Computed Tomography.


Isolation of a Family of Monoclonal Antibodies which Recognize a set of Immunologically Related Polypeptides of the Nuclear Poor Complex and Characterization of the Antigens.

MASTER OF CIVIL ENGINEERING
in The G.W.C. Whiting School of Engineering


Benny K. Louie, of Lutherville, Md.; B.S.C.E. University of Maryland, 1983.
MASTERS OF SCIENCE
in The G.W.C. Whiting School of Engineering


Bryn Scharff Ardanuy, of Silver Spring, Md.; B.S. University of Maryland, 1980. Computer Science.

Andrew Todd Bair, of Columbia, Md.; B.S.E. Virginia Polytechnic Institute and State University, 1982. Electrical Engineering.

John Michael Bajzik, of Columbia, Md.; B.S.E. Case Western Reserve University, 1981. Electrical Engineering.


William J. Both, of Hanover, Md.; B.S. Grove City College, 1981. Numerical Science.


Ronald C. Brothers, of Baltimore, Md. Computer Science.


Gerald Bulmash, of Street, Md.; B.S. University of Maryland, 1975. Applied Physics.


Chandan Choudhary, of Greenbelt, Md.; B.S. Ohio State University, 1982. Computer Science.


David Lewis Cogglin, of Frederick, Md.; B.S. University of Delaware, 1974; M.S. University of Maryland, 1981. Computer Science.


Timothy D. Cole, of Ellicott City, Md.; B.E.S. The Johns Hopkins University, 1974; M.S.E., 1975. Technical Management.


David Michael Fadeley, of Pasadena, Md.; B.S.E.E. Virginia Polytechnic Institute and State University, 1981. Electrical Engineering.

Robin Pam Field, of Gaithersburg, Md.; B.S. Ohio State University, 1983. Computer Science.


Kevin Lee Fischbach, of Sykesville, Md.; B.S. Purdue University, 1977. Computer Science.


Sharon Jean Galloway, of Davidsonville, Md.; B.S. Purdue University, 1981. Computer Science.


Philippe Goldschmidt, of Monsey, N.Y. Computer Science.


James McCarver Hanson, of Columbia, Md.; B.S.E. Georgia Institute of Technology, 1981. Electrical Engineering.


Kathleen M. Harmeyer, of Timonium, Md.; B.S. Towson State University, 1966. Computer Science.


Sally Sue Heal, of Severna Park, Md.; B.S.E. University of Michigan, 1981. Electrical Engineering.


Howard Edward Herl, of Baltimore, Md.; B.S. Towson State University, 1982. Computer Science.

Tracy Clinton Herriott, of Silver Spring, Md.; B.S. Capitol Institute of Technology, 1982. Computer Science.


Eric D. Holm, of Columbia, Md.; B.S.E. University of New Mexico, 1982. Electrical Engineering.


Lila Dawkins Houston, of Randallstown, Md.; B.S. University of Virginia, 1982. Computer Science.


Peter Ildefonso, of Linthicum, Md.; B.A. University of Maryland, Baltimore County, 1981. Computer Science.


Eileen Faye Keeney, of Annapolis, Md; M.E. Pennsylvania State University, 1980. Computer Science.


Carl Marion Kinmons, of Severn, Md.; B.S.E. University of Missouri, 1976. Electrical Engineering.


S Cheryl Arnold Kuhle, of Glen Burnie, Md.; B.S. Purdue University, 1983. Computer Science.


Rose Meichi Liu, of Silver Spring, Md.; B.A. National Taiwan University, 1968. Computer Science.

Wei-Liang Liu, of Columbia, Md.; B.S. National Taiwan University, 1978; M.S. University of Kentucky, 1983. Computer Science.


<table>
<thead>
<tr>
<th>Name</th>
<th>University/College</th>
<th>Degree</th>
<th>Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>William Eugene McMillion</td>
<td>University of Maryland</td>
<td>B.S.</td>
<td>Computer Science</td>
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<tr>
<td>William Thomas Mecca</td>
<td>University of Scranton</td>
<td>B.S.</td>
<td>Numerical Science</td>
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<tr>
<td>Errol Fred Mednik</td>
<td>Case Institute of Technology</td>
<td>B.S.</td>
<td>Computer Science</td>
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<tr>
<td>Michael R. Menaker</td>
<td>University of Maryland</td>
<td>M.A.</td>
<td>Computer Science</td>
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<tr>
<td>Robert C. Merrey</td>
<td>Western Maryland College</td>
<td>B.A.</td>
<td>Science</td>
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<tr>
<td>Kevin Scott Meyers</td>
<td>University of Maryland</td>
<td>B.S.</td>
<td>Computer Science</td>
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<tr>
<td>Christopher Bishard Miller</td>
<td>Shadyshide, Md.</td>
<td>B.S.</td>
<td>Engineering</td>
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<tr>
<td>Gregory Anthony Miller</td>
<td>University of Maryland</td>
<td>B.S.</td>
<td>Electrical Engineering</td>
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<td>Robert David Miller</td>
<td>The Johns Hopkins University</td>
<td>B.A.</td>
<td>Science</td>
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<tr>
<td>William Ned Miller</td>
<td>Southwest State University</td>
<td>B.S.</td>
<td>Computer Science</td>
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<tr>
<td>Patricia Ann Mills</td>
<td>University of South Carolina</td>
<td>B.S.</td>
<td>Computer Science</td>
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<tr>
<td>Curtis Eugene Milton</td>
<td>Glen Burnie</td>
<td>B.S.</td>
<td>University of Akron</td>
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<td>Keith Phillip Mitchell</td>
<td>Baltimore</td>
<td>B.S.E.</td>
<td>The Johns Hopkins University</td>
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<td>Robert Dominic Morelli</td>
<td>Columbia</td>
<td>B.S.</td>
<td>University of Pittsburgh</td>
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<td>David P. Morrow</td>
<td>Columbia</td>
<td>B.S.E.</td>
<td>West Virginia University</td>
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<td>Victoria Watkins Mosely</td>
<td>Towson State University</td>
<td>B.A.</td>
<td>University</td>
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<td>Kenneth Norman Moss</td>
<td>Reed College</td>
<td>M.A.</td>
<td>Cornell University</td>
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<td>Weylin Poy Moy</td>
<td>Suitland</td>
<td>M.A.</td>
<td>University of Maryland</td>
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<tr>
<td>Kathy Murray</td>
<td>Largo</td>
<td>B.S.</td>
<td>University of Maryland</td>
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<td>Chandraslekhkar D. Naik</td>
<td>Columbia</td>
<td>B.Tech.</td>
<td>Indian Institute of Technology</td>
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<td>John Wray Narer</td>
<td>Virginia Polytechnic Institute</td>
<td>B.S.</td>
<td>State University</td>
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<td>Kevin Russell Nary</td>
<td>Columbia</td>
<td>B.S.</td>
<td>College of William and Mary</td>
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<td>Bambi Louann Nelms</td>
<td>Laurel</td>
<td>B.S.</td>
<td>University of Delaware</td>
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<td>Vincent Francis Neradka</td>
<td>Rockville</td>
<td>B.S.</td>
<td>University of Maryland</td>
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<tr>
<td>Mallikarjun N. Netrakanti</td>
<td>Silver Spring</td>
<td>B.S.</td>
<td>University of Poona</td>
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<tr>
<td>James Marvin Newell</td>
<td>Germantown</td>
<td>B.S.</td>
<td>Old Dominion University</td>
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<td>David Lawrence Neylan</td>
<td>Columbia</td>
<td>B.S.</td>
<td>University of Delaware</td>
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<td>Joseph Norton</td>
<td>Edgewood</td>
<td>B.S.</td>
<td>Stevens Institute of Technology</td>
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<td>Michael David Nueslein</td>
<td>Joppa</td>
<td>B.S.</td>
<td>Loyola College</td>
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<td>James William Nusbaum</td>
<td>Laurel</td>
<td>B.S.</td>
<td>University of Maryland</td>
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<tr>
<td>Charles A. Ocheret</td>
<td>Baltimore</td>
<td>B.S.</td>
<td>The Johns Hopkins University</td>
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<td>Timothy Robert Oechsler</td>
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<tr>
<td>Yusuf Abdullhusain Officewala</td>
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<tr>
<td>Gerard N. O’Keefe</td>
<td>Baltimore</td>
<td>B.A.</td>
<td>Loyola College</td>
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<tr>
<td>Russell Vincent Pagano</td>
<td>Baltimore</td>
<td>B.A.</td>
<td>University of Maryland</td>
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<tr>
<td>Barbara Paisley</td>
<td>Baltimore County</td>
<td>B.S.</td>
<td>Columbia University</td>
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<tr>
<td>Robert B. Palechek</td>
<td>Gambrills</td>
<td>B.S.E.</td>
<td>The Johns Hopkins University</td>
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<tr>
<td>Gurusharan C. Pancholi</td>
<td>Glen Burnie</td>
<td>B.E. S.V.R.</td>
<td>College of Engineering</td>
</tr>
<tr>
<td>Shih-Min Sidney Pao</td>
<td>Columbia</td>
<td>M.S.</td>
<td>University of Texas at Arlington</td>
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<tr>
<td>Barbara Susan Parks</td>
<td>Juniata College</td>
<td>B.S.</td>
<td>Computer Science</td>
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<tr>
<td>Mayer Zvi Pasternak</td>
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<td>B.T.L.</td>
<td>Ner Israel Rabbinical College</td>
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<tr>
<td>Craig Robert Patterson</td>
<td>Ellicott City</td>
<td>B.A.</td>
<td>Franklin and Marshall College</td>
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<tr>
<td>Scott Jeffrey Patton</td>
<td>Ellicott City</td>
<td>B.S.</td>
<td>University of Cincinnati</td>
</tr>
<tr>
<td>John Scott Pawling</td>
<td>Columbia</td>
<td>B.S.</td>
<td>Vanderbilt University</td>
</tr>
</tbody>
</table>

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David Robert Pedersen, of Ellict City, Md.; B.S.E. Syracuse University, 1981. Electrical Engineering.


James Bradley Power, of Hanover, Md.; B.S.E. Michigan State University, 1982. Electrical Engineering.


Raymond Foster Prescott, of Laurel, Md.; B.S. Appalachian State University, 1984. Computer Science.


Mary Robidoux, of Jessup, Md.; B.S. University of Maryland, 1981. Computer Science.


Michael George Rohleder, of Gaithersburg, Md.; B.S. Towson State University, 1974. Technical Management.

Roger Dale Rohr, of Gaithersburg, Md.; B.S. University of South Carolina, 1981. Computer Science.


Richard G. Schmalbach, of Timonium, Md.; B.S.E. Drexel University, 1981. Electrical Engineering.


Kristie Lee School, of Millersville, Md.; B.S.E. Michigan Technological University, 1981. Electrical Engineering.


Jon Craig Sipos, of Baltimore, Md.; B.S. Lehigh University, 1981. Computer Science.


Judy Ann Sprague, of Bethesda, Md.; B.S. University of Maryland, 1972; M.S. Purdue University, 1975. Computer Science.


David Stewart Tillman, of Columbia, Md.; B.S. Purdue University, 1982. Electrical Engineering.


Jeffrey Wayne Trout, of Hanover, Md.; B.S.E. Massachusetts Institute of Technology, 1968. Electrical Engineering.


Mark David Vallon, of West Frederick, Md.; B.S. Northeastern University, 1975. Computer Science.


Joseph Francis Vesey, of Silver Spring, Md.; B.S. Columbia University, 1956; M.S. Stevens Institute of Technology, 1963. Computer Science.


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Carolyn Ann Williams, of Baltimore, Md. Computer Science.


Robert Charles Yienger, of Baltimore, Md.; B.S.E. University of Maryland, 1981. Electrical Engineering.


MASTERS OF SCIENCE IN ENGINEERING
in The G.W.C. Whiting School of Engineering


A Study of the Kinetematics of the Human Hand with Applications to Robot Hand Design.


Kathleen Ruth Breen, of Baltimore, Md.; B.S. University of Rochester, 1976.

Analysis of Ultrasonic Alteration of Aluminum Single Crystal by Electron Channeling Techniques.

Susan Phippen Bauxbaum, of Hull, Mass. Chemical Engineering.

Thermal Diffusion Cloud Chamber Studies of Unimolecular Decomposition Reactions.

Christopher Calingaert, of Chapel Hill, N.C. Electrical Engineering and Computer Science.


Howard Chen, of Baltimore, Md. Mechanical Engineering.

Thermo-plastic Instability in Antiplane Shear Deformation.

Risna Tasnim Chowdhury, of Kushtia, Bangladesh; B.A. Scripps College, 1984. Mathematical Sciences.


John Broddus Deaton, Jr., of Richmond, Va.; B.E.S. The Johns Hopkins University, 1983. Materials Science and Engineering.


Nishan DerSimonian, of Beirut, Lebanon; B.A. Brandeis University, 1984. Mathematical Sciences.

Fazl Ehsan, of Dhaka, Bangladesh. Civil Engineering.


Sets of Points Without Empty Convex Hexagons.

Jeffrey Alan Goldman, of Baltimore, Md.; B.E.S. The Johns Hopkins University, 1982. Materials Science and Engineering.

Investigations of Property/Microstructure Relationships in Thick Film Resistor Materials.


Zia Ul Haq, of Dacca, Bangladesh; B.S. Northwestern University, 1982. Chemical Engineering.

Superheat Limits of Non-Ideal Liquid Mixtures and Thermally Induced Nucleation of Benzoylbutenol.


Morris Schnapp Israel, of Potomac, Md.; B.S. The Johns Hopkins University, 1984. Civil Engineering.

Probabilistic Basis of Partial Resistance Factors for Use in Concrete Design.


Aspects of the Natural Wind Conditions at the Golden Gate Bridge.


The Determination of the Rate Limiting Mechanism in Lithium/Iodine (P2VP) Batteries.


A Simulation and Measurement Approach to Distributed System Modeling.

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Hans Ulrich Mair, of Baltimore, Md.; B.S. Loyola College, 1982. Mechanical Engineering.

*Thermal Fields in Dynamic Mode III Fracture.*


*A Rule Based Computer Aided Design System.*

Robert James Quinton, of Jamaica, West Indies; B.S. United States Naval Academy, 1985. Electrical Engineering and Computer Science.


John Paul Wright, Jr., of Roswell, N.M.; B.S. University of Houston, 1984. Geography and Environmental Engineering.

Thomas Yongmin Yi, of Albany, Calif. Chemical Engineering.

*A Theoretical Investigation of Patterns of Reactivity in Endothermic Retroene Reactions of Coal Model Compounds.*

**MASTER OF ARTS**

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

Robert Nicholas Andrei, of Baltimore, Md.; B.S. Virginia Polytechnic Institute and State University, 1981. Geography and Environmental Engineering.


Martha Nadia Jarosewich, of Silver Spring, Md.; B.S. University of Maryland, 1980. Geography and Environmental Engineering.

*Correspondence of Historical Land Use, Meteorological Events and Sediment Accumulation in Furnace Bay, Maryland.*

**MASTERS OF ARTS**

in The School of Arts and Sciences


*Experiment or Interpretation: The Scientific Status of Psychoanalysis.*

Margaret Kate Aisenberg, of Boston, Mass. English.


Reiner Ansen, of Pfalz, West Germany. German.


*At the Aerodrome.*

Martin Besancon, of Paris, France. French.

Glenn Leo Blake, of Liberty, Texas; A.A. Lee College, 1976; B.A. Rice University, 1979; M.A. University of Houston, 1984. Writing Seminars.

*Old River.*
Brandon Lisa Bond, of Baltimore, Md. Sociology.


Potter’s Field.


Catherine Jean Campbell, of Baltimore, Md.; B.A. University of Toronto, 1983. History of Art.


Genesis Sy-Shyan Chen, of Taipei, Taiwan; B.Bus. Admin. National Taiwan University, 1980. Political Science.

The Developmental Path of Taiwan: An Alternative Interpretation.

Kee Nam Cheung, of Baltimore, Md.; B.S. Oregon State University, 1974; M.S., 1976; M.S. University of Wisconsin at Madison, 1980. Political Economy.


Jinhyung Chu, of Baltimore, Md.; B.A. Seoul National University, 1981. Political Economy.


Studies on the Reign of Thutmose I.


Solar Ultraviolet Emissions from Jupiter.

Bernd Dornseifer, of Bielefeld, Germany. History.

Factors in the Institutional Development of a University: The Johns Hopkins University, 1889-1929.


The Political Process in the Old Kingdom: Absolutism vs. Aristocracy.

Dan Samuel Edidin, of Baltimore, Md. Mathematics.


Katherine Lynn Eubanks, of Boynton Beach, Fla. Writing Seminars.

Intersections: Contemporary and Historical Perspectives on Medicine.


The Economy of Human Relations in Castiglione’s Libro del Cortegiano.

Robert Daniel Feinstein, of Albany, N.Y. History.

The Reception of Adam Smith’s Wealth of Nations in England and Scotland, 1800-1850.

Julie Deane Fishbein, of Baltimore, Md.; B.A. The Johns Hopkins University, 1981. Writing Seminars.

One Foot in the Feathergrass.

Laura Moleski Franc, of Orchard Park, N.Y.; B.A. State University of New York at Buffalo, 1983. French.


Sylvia Fuchscl, of Bielefeld, Germany. History.


Lynn Satoko Fujise, of Honolulu, Hawaii; B.S. Harvey Mudd College, 1983. Chemistry.

Alessandra Galizzi, of Baltimore, Md. History of Art.

Andrew D. Gavrin, of New Rochelle, N.Y. Physics and Astronomy.

Jan Ruth Gehorsam, of New York, N.Y. Writing Seminars.

Night Country.


Meteoric Water-Basalt Interactions: Field and Laboratory Study.


Tranquility Base.
South Korea vs. Taiwan: Debt Led vs. Export Led Growth: A Comparative Analysis of Economic Development Patterns.

In Africa We Are Free: Black Americans in Maryland in Liberia.


Elizabeth Hanson, of Baltimore, Md.; B.A. University of Toronto, 1978. English.

Maureen Anne Harkin, of Baltimore, Md. History of Art.


Joseph Hobson Harrison III, of Baltimore, Md. English.

Rebecca Gault Heumann, of Bloomington, Ind. German.


Bonnie Helen Honig, of Montreal, Canada; B.A. Concordia University, 1980; M.S. University of London, 1981. Political Science.
Beyond Porcupine Liberalism: The Concept of Respect for Persons in the Moral and Political Philosophies of Immanuel Kant and Thomas Hill Green.

The Heart of a Halfway Technology.

Bruce James Hrnjez, of Norfolk, Va. Chemistry.
Synthetic Approaches to Macrocyclic Allenes and Alkenes.

Lisa Ijiri, of Palo Alto, Calif. Psychology.
A Developmental Perspective on Cognitive Mechanisms in Number Processing and Calculation.

Hiroyuki Imai, of Baltimore, Md.; B.A. Keio University, 1974; M.A. University of Michigan, 1982. Political Economy.

Syed Arif Kamal, of Hyderabad, Pakistan; M.S. Indiana University, 1982. Physics and Astronomy.
The Effects of Magnetic Field on Scale Formation.


Public Opinion, Congress and the Termination of the Vietnam War.

Elizabeth Sharon Kelly, of Villanova, Pa. Humanities.

John Christopher Kilgallon, of Baltimore, Md. Psychology.
Testing the Elaboration Hypothesis of Memory for Faces.

David Joseph Seymour King, of Baltimore, Md.; B.A. Yale University, 1980. History.

Nuclear Deterrence and Just War Theory.

William Bergen Kouwenhoven, of Baltimore, Md. Humanities.


Zbigniew Brzezinski as National Security Adviser: The Fall in Power from Kissinger Era.

Human Chemistry.

Houses.

The Wanderer.

Jean Cara Lenihan, of New York, N.Y. Writing Seminars. We Were Alone.

Found Objects.

Halfway House.


The Office of Communications: Its Functional Evolution.

Marian Frances Matrician, of Baltimore, Md.; B.A. University of Texas at Austin, 1977. History.

\textit{Labor Roles of Women in Late Medieval Cologne.}

Luigina Mattioli, of Mantova, Italy. Political Economy.

\textit{Wealth and Value—A Critique of the Economics of Justice.}

Brian Alexander MacDonald, of Newton, Mass. Mathematics.

Douglas Frank McDonald, of Iowa City, Iowa; B.A. College of Wooster, 1980. Political Economy.

Tyrus Henry Miller, of San Francisco, Calif. Humanities.


\textit{Falling.}


In Seung Nam, of Seoul, Korea; B.S. Seoul National University, 1980. Earth and Planetary Sciences.


Naoko Nishimura, of Baltimore, Md. Political Economy.

Nancy Marie Nobile, of New Haven, Conn.; B.A. Wesleyan University, 1982. German.


Yasuko Ohno, of Paris, France. History of Art.

Lisa Marie Orange, of Lakewood, Ohio; B.A. Case Western Reserve University, 1985. Writing Seminars.

\textit{The Past and Future of Manned Space Flight.}


Adrienne Ellen Pierce, of Baltimore, Md. Classics.

Charles Lee Pizer, of Peoria, Ill.; B.A. Indiana University; M.P.A. Southern Illinois University, 1981. Political Science.

\textit{Political Behavior and the Public Philosophy: Congress, the Presidency and the Role of Public Opinion.}

John Frank Possidente, of Baltimore, Md.; B.A. The Johns Hopkins University, 1985. Writing Seminars.

\textit{Some Lives of Science.}


Zi-quang Qiu, of Beijing, China; B.S. Peking University, 1984. Physics and Astronomy.

Kenneth M. Reinhard, of Chicago, Ill.; B.A. University of California at Santa Cruz, 1981. English.

Kathryn Emery Rhett, of Utica, N.Y.; B.A. The Johns Hopkins University, 1984. Writing Seminars.

\textit{Bodies of Water.}


\textit{On Josiah Royce: A Philosopher's Historical Thought.}


Phyllis Ryder, of Ouagadougou, Upper Volta. Writing Seminars.

\textit{Down the Highway Barefoot.}


Benigno Ramon Sanchez-Eppler, of Patibaniaco, Cuba; B.A. Williams College, 1979; M.Phil. University of Cambridge, 1983. Hispanic and Italian Studies.


Suzanne Carol Senay, of Baltimore, Md.; B.A. Yale University, 1981. Philosophy.

Linda Ann Shaw, of Atlanta, Ga. Writing Seminars.

\textit{Face Absent.}


Deanna Marie Shemek, of Lincoln, Neb.; B.A. University of Nebraska at Lincoln, 1981. Hispanic and Italian Studies.


Stergios Skaperdas, of Baltimore, Md.; B.A. Reed College, 1982. Political Economy.

Janet Skelton, of Norwalk, Conn. Writing Seminars.

\textit{The Ecology of AIDS.}
Joseph Taylor Snodgrass, of Solana Beach, Calif.; B.S. Case Western Reserve University, 1980. Chemistry.

Scott Michael Sokol, of New Windsor, N.Y.; B.A. Brandeis University, 1984. Psychology.


Profound as the Grave.


Frederick Henry Streitz, Jr., of Clearwater, Fla. Physics and Astronomy.


School-Based Budgeting and Management: Policy Analysis and Recommendations.


The Old Road.


An Eye to the Lightning.

Yang Tong, of Peking, China. Political Science.


Jenn-Hwa Tu, of Tainan, Taiwan; B.S. National Taiwan University, 1977; M.A. Thammasat University, 1981. Political Economy.

Hiroshi Ueno, of Baltimore, Md.; B.E. Tohoku University, 1964; M.E. Tokyo University, 1966; M.A. Massachusetts Institute of Technology, 1975. Political Economy.


Woman Without Arms.

Monica Maria Van Beusekom, of Baltimore, Md.; B.A. Tufts University, 1982. History.

Wyger Rykele Velema, of Baltimore, Md. History.

Nathalie Villard, of Paris, France; Diploma The Johns Hopkins University, 1984. Political Science.

Antonio Gramsci's Political Thought and the Immediate Post-War PCI Strategy.


Gwendolyn I. Walden, of Chicago, Ill. History.

In the Political World: The Origins of the Founding of the American School of Public Health.


Li-Shing Wang, of Taipei, Taiwan; B.A. National Taiwan University, 1982. Political Science.

The Meiji Restoration and the Hundred Days Reform.

William Parker Webb, of Providence, R.I. Writing Seminars.

Layouts.

Clifford Kent Weber, of Baltimore, Md. History.

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Steven Mitchell Wells, of South Boston, Va. Writing Seminars.

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Thomas Welskopp, of Bochum, West Germany. History.

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Rachel Kathleen Wolford, of Dallas, Texas. History.

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Ingrid Chyong-Hwa Wu, of Taipei, Taiwan; B.A. The Johns Hopkins University, 1985. Sociology.

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An-Suei Yang, of Baltimore, Md.; B.S. National Tsing Hua University, 1979. Chemistry.


Arie Shloma Zmora, of Haifa, Israel. History.


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Anne Catherine Smith, of Baltimore, Md.; M.A. Gallaudet College, 1978.

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Rafael S. Carel, of Tel-Aviv, Israel; M.D. Hebrew University, 1967; M.Sc. Drexel University, 1969; M.P.H. Hebrew University, 1979. Environmental Health Sciences.

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Teresita Torres Finlay, of Santiago, Philippines; B.S.N. University of Santo Tomas, 1960; M.P.H. Tulane University, 1966. Health Policy and Management.

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Rudolf A.T.G. Knippenberg, of Amsterdam, Netherlands; M.D. State University at Utrecht, 1977; M.P.H. The Johns Hopkins University, 1981.

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Michael Balady, of Joppatowne, Md.; B.A. Rutgers University, 1972; M.S.P.H. University of Missouri, 1974. Immunology and Infectious Diseases.


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Deborah Lynn Brimlow, of Beaumont, Texas; B.A. Lamar University, 1975; M.A. University of Houston, 1980. Behavioral Sciences and Health Education.

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Sukon Kanchanaraksa, of Bangkok, Thailand; B.A. The Johns Hopkins University, 1977; M.H.S., 1979. Epidemiology.

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Audrey Frieda Saftlas, of Silver Spring, Md.; B.A. Clark University, 1977; M.P.H. University of Michigan, 1979. Epidemiology.

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Susan Schober, of Baltimore, Md.; B.A. Indiana University, 1976. Epidemiology.
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Janet Lee Stanford, of Bremen, Ga.; B.S.N. Georgia State University, 1980; M.P.H. Emory University, 1982. Epidemiology.
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DOCTORS OF PHILOSOPHY
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Nancy Margaret Dahms, of Milwaukee, Wis.; B.S. Marquette University, 1980. Biochemistry, Cellular and Molecular Biology Program—Biological Chemistry.
Sulfated Glycoconjugates of Lymphocytes.

Kevin Lawrence Gardner, of Bound Brook, N.J.; B.S. Yale University, 1979. Biochemistry, Cellular and Molecular Biology Program—Cell Biology and Anatomy.
The Interaction of Calmodulin with the Erythrocyte Membrane and Membrane Skeleton.

David Kevin Imagawa, of Rancho Palos Verdes, Calif.; B.S. Stanford University, 1980. Pharmacology and Experimental Therapeutics.
Consequences of Cell Membrane Attack by Complement: Release of Arachidonate and Formation of Its Oxygenated Metabolites.

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Hung Tseng, of Beijing, China; B.A. Peking University, 1979. Biochemistry, Cellular and Molecular Biology and Genetics.
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Victoria Ostrowski Ulrich, of Laurel, Md.; B.S. Loyola University of Chicago, 1975; M.S., 1976. Physiology.
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William Thomas Baumann, of Forest Hill, Md.; B.S. Lehigh University, 1978; M.S. Massachusetts Institute of Technology, 1980. Electrical Engineering and Computer Science.

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Sanford Richard Buxbaum, of Baltimore, Md.; B.E.S. The Johns Hopkins University, 1979; M.S.E., 1982. Materials Science and Engineering.

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Yu-Chi Chang, of Keelung, Taiwan; Diploma in Chemical Engineering, Taipei Institute of Technology, 1971; M.S. Clarkson College of Technology, 1980. Chemical Engineering.

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Pen-Pong Chiang, of Baltimore, Md.; B.S. National Central University, 1976; M.S. National Taiwan University, 1978. Chemical Engineering.

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Demetrios N. Christodoulides, of Nicosia, Cyprus; Diploma, Higher Technical Institute, Cyprus, 1979; M.S.E. The Johns Hopkins University, 1982. Electrical Engineering and Computer Science.

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Shyan-Lung Chung, of Miauli, Taiwan; B.S.E. National Cheng Kung University, 1977. Chemical Engineering.


Peter Louis Fuhr, of Perham, Minn.; B.S. Beloit College, 1979; M.S.E. The Johns Hopkins University, 1983. Electrical Engineering and Computer Science.

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John Paul Gudas, of Annapolis, Md.; B.S. Purdue University, 1968. Materials Science and Engineering.

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Chooon-Ho Kim, of Seoul, Korea; B.A. Sogang University, 1981; M.S.E. The Johns Hopkins University, 1985. Chemical Engineering.


Michele Lynne Le Faire, of Baltimore, Md.; B.S. Towson State University, 1976; M.S. The Johns Hopkins University, 1980. Geography and Environmental Engineering.

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Mehrdad Soltani, of Tehran, Iran; B.S. North Carolina Agricultural and Technical State University, 1980; M.S. Virginia Polytechnic Institute and State University, 1982. Civil Engineering.

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Morgan Jones Thomas, of Allentown, Pa.; B.S. Lehigh University, 1981. Electrical Engineering and Computer Science.

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Pannalal Vimalchand, of Madras, India; B.T. University of Madras, 1977; M.S. Clarkson College of Technology, 1980. Chemical Engineering.

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Zhishi Wang, of Dao Li Harbin, China; M.S. Harbin Agricultural and Civil Engineering Institute, 1982. Geography and Environmental Engineering.

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Che-Liang Yang, of Tainan, Taiwan; B.S. National Chiao Tung University, 1979. Electrical Engineering and Computer Science.

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Bofu Yu, of Beijing, China; Diploma, Peking University, 1982. Geography and Environmental Engineering.

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Zhongping Zhu, of Shanghai, China; Master's degree Tsinghua University, 1982. Geography and Environmental Engineering.

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Jon Kirtland Borowicz, of Cedarburg, Wis.; B.A. University of Wisconsin at Madison, 1975; M.A. The Johns Hopkins University, 1979. Philosophy.

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Nadeem Akhtar Burney, of Rawalpindi, Pakistan; B.Sc. University of the Punjab, 1974; M.Sc. Quaid-i-Azam University, 1977. Political Economy.


Kathleen Mary Butler, of Birmingham, England; B.A. Corpus Christi State University, 1979; M.A. The Johns Hopkins University, 1982. History.

Slave Compensation and Property: Jamaica and Barbados, 1823-1843.

Richard Anthony Cardullo, of Boston, Mass.; M.S. University of Massachusetts, 1981; Biophysics.

Oxygen Metabolism, Motility, and the Maintenance of Viability of Caudal Epididymal Rat Sperm.


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Timothy Eugene Cleveland, of Amarillo, Texas; B.A. Hardin-Simmons University, 1981; M.A. The Johns Hopkins University, 1983. Philosophy.

Acting, Willing, and Trying.


Photoelectron Spectroscopy of Negative Cluster Ions.

Thomas David Cornell, of Rochester, N.Y.; B.A. Southwestern at Memphis, 1974; M.S. Georgia Institute of Technology, 1977. History of Science.

Merle A. Tuve and His Program of Nuclear Studies at the Department of Terrestrial Magnetism: The Early Career of a Modern American Physicist.


Spectral and Periodicity Pitch Perception in a Songbird (Sturnus Vulgaris).

Steven Gert Davis, of Akron, Ohio; B.A. Swarthmore College, 1979. Chemistry.

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James Gregory Dees, of Cincinnati, Ohio; B.A. University of Cincinnati, 1972; M.A. The Johns Hopkins University, 1976. Philosophy.

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Bayesian Learning as a Propagating Mechanism in a Dynamic General Equilibrium Model of Business Cycles.

Michel Demers, of Ottawa, Canada; Diploma, Bois-de-Boulogne College, 1972; B.A. McGill University, 1975; M.A., 1981; M.A. The Johns Hopkins University, 1982. Political Economy.

Essays in the Economics of Uncertainty.


Status Attainment in the Heroin Subculture: A Test of the Prison Learning Hypothesis.


Geometry of Imbricate Thrusting in the Mountain City Window, Tennessee.

Joseph Dominic Falvo, of Strongoli, Italy; B.A. Loyola University, 1974; M.A. Catholic University of America, 1977; M.A., 1979; M.A. The Johns Hopkins University, 1985. Hispanic and Italian Studies.

The Economy of Human Relations in Castiglione's Libro del Cortegiano.


The Louisville-Dirac-Fock and Complex-Rotated Hartree-Fock Theories in Atomic Structure Calculations.


The Major Glycoprotein Secreted by Transformed Mouse Cells in a Novel Lysosomal Acid Protease.


Genetic Studies on the Synthesis of the Major Outer Membrane Porin Proteins of E. coli K12.


Meteoric Water-Basalt Interactions: Field and Laboratory Study.


Plato's Gorgias and the Drama of the Philosophical life.


Politics, Bureaucracy and Rural Development in Lesotho.

Thomas Fraser Grieve, of Kelowna, Canada; B.A. Simon Fraser University, 1970; M.A., 1974. English.

Displacing the Self: The Progress of Ezra Pound's Pre-Cantos Poetics.


U.S. Bank Foreign Lending.


Upper Cretaceous (Beaverhead) Synorogenic Sediments of the Montana-Idaho Thrust Belt: Relationships Between Sedimentation and Tectonism.


Samuel Pastor Hernandez-Rivera, of Mayaguez, Puerto Rico; B.S. University of Puerto Rico, 1974; M.A. The Johns Hopkins University, 1982. Chemistry.


Isolation and Characterization of the Chicken Muskel Pyruvate Kinase Gene.


Synthetic Approaches to Macrocyclic Alkenes and Alkenenes.


Structure of the Central Domain of 16 S Ribosomal RNA.
Studies of the Murine Immune Response to Bacterial Lipopolysaccharide.

Frederick Mark Kronz, of Austin, Texas; B.S. University of Pittsburgh, 1978. Philosophy.

Rita Pett Landers, of College Park, Md.; Doctorate in Literature, University Degli Studi Di Firenze, 1970; Diploma in Hispanic Studies, University of Oviedo, 1972; M.A. The Johns Hopkins University, 1979. Hispanic and Italian Studies.
Las lagrimas de Angelica de Luis Barahona de Soto: Estructura, Tecnica Narrativa, Fuentes Estilo.

Susan Elizabeth Lawrence, of St. Louis, Mo.; B.A. Furman University, 1979; M.A. The Johns Hopkins University, 1982. Political Science.
The Poor in Court: The Legal Impact of Expanded Access.

Neither Fable nor Science: Volney's Writings on Travel and History.

Frederick David Levenbach, of State University, Ark.; B.A. Franklin and Marshall, 1974; M.A. The Johns Hopkins University, 1977. Political Science.
Bureaucratic Behavior in Project Appraisal and Selection: The Economic Development Administration.

Carol Ann Liese, of Baltimore, Md.; B.A. Towson State University, 1977; M.A. The Johns Hopkins University, 1981. Chemistry.
Structural Elucidation of a Hydroxylated Metabolite of Thalidomidei Evidence Supporting and Arene oxide Intermediate.

Cheryl Eileen Lopes, of Providence, R.I.; M.A. The Johns Hopkins University, 1982. Psychology.
Attributions of Casual and Recovery Responsibility among Self-Help Group Members.

Shu-Bin Lu, of Manyang, Taiwan; B.Sc. National Taiwan Normal University, 1969; M.S. National Taiwan University, 1976. Chemistry.
Synthesis of Carboxylics: Sequential Michael-Michael-Ring Closure (MIMIRC) Reactions for One-pot, three component, 2+2 Construction of Six-membered Cyclic Compounds.

Joan Rosensweig Lucco, of New Britain, Conn.; B.A. Brown University, 1959; M.A. University of Chicago, 1960; M.A. The Johns Hopkins University, 1982. Political Science.
Roles of Interest Group Representatives at the White House: Staff for Consumer Units in the Modern Presidency from John F. Kennedy to Jimmy Carter.

Against the Current: Historical Perspective in Ante-Bellum American Fiction.

X-Ray and Radio Images of Four Supernova Remnants with Three Distinct X-Ray Signatures.


Origin of Comb Layered and Orbicular Rocks near Fisher Lake, California.

Albert Stanley Meiburg, of Louisville, Ky.; B.A. Wake Forest University, 1975; M.A. The Johns Hopkins University, 1977. Political Science.
Protect and Enhance: Lori's Juridical Democracy and the Prevention of Significant Deterioration of Air Quality.


Woman as Hero: The Legend of Gaspara Stampa.

Jesse Marcus Noland, of Houston, Texas; B.A. Swarthmore College, 1981; M.A. The Johns Hopkins University, 1983. Political Economy.
The Determinants of Comparative Advantage: Empirical Analysis in a Multicountry Time-Series Cross-Section Framework.

Performance Crossroads: The Significance of the Jazz Controversy for Twenties America.

ERCUMENT Hasan ORTAÇĠL, of Istanbul, Turkey; B.Sc. Middle East Technical University, 1978; M.A. The Johns Hopkins University, 1982. Mathematics.
On Growth of Entire Holomorphic Mappings.
Chwee-huay Ow, of Singapore, Singapore; B.A. University of Singapore, 1969; M.S., 1976; M.A. The Johns Hopkins University, 1982. Political Economy.  

The Currency Board Monetary System—The Case of Singapore and Hong Kong.


Glutathione: An Intracellular and Extracellular Protective Agent in Salmonella Typhimurium and Escherichia Coli.


Interactions between Forked, Yellow, Gypsyl, and Suppressors in Drosophila.


The Complaints of an Eloquent Peasant.


Cytoplasmic Diffusion in the Retinal Rod Photoreceptor: Its Measurement and Role in Limiting the Speed of the Photoreponse.

Kimberly Andrea Quaid, of Baltimore, Md.; B.A. Brown University, 1977; M.A. The Johns Hopkins University, 1982. Psychology.  

Informed Consent: The Effects of Disclosure for a Prescription Drug on Patient's Knowledge, Beliefs and Response to Treatment.


The Uncertain Alliance: A Study of the German Foreign Ministry Liaison Staff at General Headquarters during the First World War.


On the Complex Powers Associated with the Twisted Cases of the Determinant and the Pfafian.


A Genetic Analysis of the Adenoviral Va Gene Promoter.


At the Limits of Pluralism: Constructing the Problematic of American Literary Theory.


Students and Apprentices: Medical Education at Edinburgh University, 1760-1810.

Deborah Susan Rubin, of Mountain View, Calif.; B.A. Brown University, 1975; M.A. The Johns Hopkins University, 1984. Anthropology.  

People of Good Heart: Rural Response to Economic Crisis in Tanzania.


Thesaurus: A Study of the Treasury Building as Found in Greek Sanctuaries.


David Carl Scharf, of Normal, Ill.; B.A. University of Maryland, 1976; M.A. The Johns Hopkins University, 1982. Philosophy.  

Quantum Mechanics and the Program for the Unity of Science.


Human Metallothionein Genes: Structure, Expression and Regulation.


The Molecular Genetics of Createin Kinase M.


The Invention of a Capital: Philip II and the First Reform of Madrid.


Forgetting and Remembering: William Morris and the Earthly Paradise.


An Analysis of Transgenic Mice Containing Papovavirus Early Region Genes.


The Case of Thomas Mann's Joseph und seine Bruder: An Essay in German-Jewish Cultural Assimilation.


Major Histocompatibility Complex Antigens of Marine Erythrocytes.


From Paradise to Park Row: The Life, Opinions, and Newspapers of Charles A. Dana, 1819-1897.

The Role of Nickel in Membrane-Bound Hydrogenase and Nickel Metabolism in Rhizobium japonicum.

Patricia Torres-Mejia, of Mexico City, Mexico; M.A. The Johns Hopkins University, 1984. Anthropology.

Before Smoking: Social Relations Involved in Tobacco Production in a Philippine Setting.


High Pressure Electrical Transport Studies of Several Organic Charge Transfer Salts.


Sex Differences in the Use of Nonpsychiatric Services in a Health Maintenance Organization Setting: A Test of the Impact of Social Roles, Illness Level, and Propensity to Seek Care.


The Letters of the Republic: Literature and Print in Republican America.

Ellen Andrea White, of Sea Bright, N.J.; B.A. University of North Carolina at Chapel Hill, 1980; M.A. The Johns Hopkins University, 1982. Psychology.

Phonological Processing in the Comprehension of Written Words and Sentences.


The Conversion of Henri IV, King of France (1584-1595).


Magnetic Surface Anisotropy of Amorphous Fe-B Ultrathin Films.
For those who use the Commencement Program as an official record of the awarding of degrees, please note the following changes to the 1986 Commencement Program:

1. **Bachelors of Arts (Arts and Sciences)**
   - **Add:** Thomas Jay Montanaro, of Old Lyme, Conn.
   - **Delete:** Herman Ayavo, Wayne Creadick, John Cummings, Emily De Coster, Susan Ellis, John Ghikas, Helen G. Harvilic, Richard Hoheb, Adrienne Holmes, Scott Kamber

2. **Bachelors of Science in Biomedical Engineering (Engineering)**
   - **Delete:** Vernon W.L. Huang

3. **Bachelors of Science in Chemical Engineering (Engineering)**
   - **Delete:** David Wayne Donnick

4. **Bachelors of Science in Electrical Engineering (Engineering)**
   - **Delete:** Anthony Steven Aquilino, Joseph M. Kwiatkowski, Song Chin Hong, Syed Abbas Raza

5. **Bachelors of Science in Mathematical Sciences (Engineering)**
   - **Delete:** Peter Christopher Mitchell

6. **Bachelors of Arts (Engineering)**
   - **Add:** Anthony Steven Aquilino
7. Bachelors of Electrical Engineering (Engineering)
   Delete: Jean Denise Gaylord-Person

8. Bachelors of Mechanical Engineering (Engineering)
   Delete: Steven Raymond Cover

9. Bachelors of Music (Peabody Conservatory)
   Delete: Peter A. Kates David J.R. Meaux

10. Associates of Science (Continuing Studies)
    Delete: George Charles Gummer

11. Masters of Science (Continuing Studies)
    Delete: John Jaye Burkhardt Joan N. Miller
          Michele E. Dilegge Sally Ann Miller
          Lois J. Emershaw-Machinist Susan R. Schiaffino
          Penny Ortel Friesland Sharon B. Schwartz
          Susan Marie Geiger Melody G. Young
          Margaret Mary McNally

12. Masters of Liberal Arts (Continuing Studies)
    Delete: Karen Mary Slockbower

13. Masters of Administrative Science (Continuing Studies)
    Delete: Louis Alan Naviasky Debra C. Watkins

14. Masters of Music (Peabody Conservatory)
    Add: Karl Christopher Richter, of Bogota, Colombia; B.M. Peabody
    Delete: Barteld Douwe Bosma Bok Hwa Kim
15. **Masters of Health Science** (Hygiene and Public Health)

   Delete: Lyle Richard Edinger  
   Andrew A. Vernon

16. **Masters of Public Health** (Hygiene and Public Health)

   Add: Dittmer Frederic Alan, of Severn, Md.; B.A. Stanford University, 1956; M.D., 1959.

17. **Masters of International Public Policy** (Advanced International Studies)

   Add: Mahmud Abdullah, of Lagos, Nigeria; B.S. University of Maryland, 1984.

   Jose Luis de la Pena, of Madrid, Spain; Law degree, University of Madrid, 1971.

   Delete: Mariam Abdel Karim Al-Awardi  
   John B. Mallon
   Halidou Garga  
   Carlyle M. Murphy
   Melvin Geiger  
   Bernice Williams
   Suvoi Haji Osman

18. **Masters of Arts in International Affairs** (Advanced International Studies)

   Add: Paul V. Dionne, of Montreal, Quebec; B.A. Princeton University, 1979.

   Delete: Francesco Maria Castiglioni  
   Christopher Dimitri New
   Peter Edel  
   Katlyn Saba
   George Dimitri Koulermos  
   Laura Sipala
   Giuseppe Nesi

19. **Masters of Arts** (Advanced International Studies)


   Delete: Hauwa Akilu  
   Beverly G. Baker-Kelly
   Khaled Ismail Al-Akwa  
   Patricia Bergeron
   Dana Hansen Allin  
   Christina Bergfalk
   Mark Steven Andersen  
   Gwen A. Bondi
   Joan M. Anwav  
   Michael Boster
Masters of Arts, SAI3 (continued)

Michael Braswell  C. Margel Lindzey
Randv Burdette Cheek  Pyramyth Hong Tu Liu
Carole Isabel Choukroun  John Duncan Moore, Jr.
David Colton  Jennifer T. Muratore
Marvnell DeVaughn  Suzanne Elizabeth Nagle
Stacy Maria Dutton  Atta Owusu Ansah
Tanae M. Frederic  Ann G. Pluemer
Amjad Ali Khan Ghor  Barbara D. Ranagan
Patricia M. Hahn  Frank M. Smyth
Kay Lasta Halpern  Stephen R. Stern
Alan Hoffman  Joan Timoney
Joanna Theresa Horsfall  Takashi Uchida
Bruce Pitcairn Jackson  William J. Valdez
Kai Li Jen  Peter Vrecar
Young Chul Kim  Edward Wilkes Walker
Tetsuo Kojima  Karsten Warnecke
Jesper Jan Wilhelm Koll  William Oscar Wendlandt II
Chikako Kuno  Jennifer Jarvis White
Margaret R. Leddy

20. Masters of Science (Engineering)


Delete:  Michael Tak Chen  Theodore Price Shertzer
Kevin Edward LeRow

21. Masters of Arts (Arts and Sciences)

Delete:  Reiner Ansen  Li-Shing Wang
Pamela Elizabeth Hinkle

22. Doctors of Philosophy (School of Medicine)


23. The headings designating the degrees awarded to three groups of students were accidentally reversed during the printing of the program:

Students listed on page 81 as receiving the Doctor of Philosophy degree from the School of Advanced International Studies actually received the degree of Doctor of Public Health from the School of Hygiene and Public Health.

Students also listed on page 81 as receiving the degree of Doctor of Public Health from the School of Hygiene and Public Health actually received the degree of Doctor of Philosophy from the School of Hygiene and Public Health.

Students listed on page 83 as receiving the Doctor of Philosophy degree from the School of Hygiene and Public Health actually received their degrees from the School of Advanced International Studies.

To correct this printing error we have attached errata sheets for insertion in your copy of the program.