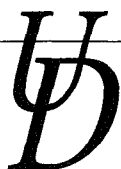




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UNIVERSITY PERSONNEL
1999-2000



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Vice President and University Secretary
ROLAND McFATRIDGE SMITH, D.A. (Carnegie-Mellon),
Vice President for Student Life



THE FACULTY

COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

- JOHN C. NYE, Ph.D. (Purdue), *Dean and Professor, Bioresources Engineering; also Director, Agricultural Experiment Station.*
- PATRICIA S. BARBER, Ed.D. (Florida), *Associate Dean for Outreach and Extension; also Associate Professor, Food and Resource Economics.*
- LESA GRIFFITHS, Ph.D. (Purdue), *Associate Dean for Academic Programs; also Associate Professor, Animal and Food Sciences.*
- WILLIAM W. SAYLOR, Ph.D. (Penn State), *Associate Dean and Associate Director, Agricultural Experiment Station.*
- KAREN ROTH ANIUNAS, M.Ed. (Delaware), *Assistant Dean for Student Services.*
- GREGORY W. RUMSEY, M.B.A. (Delaware), *Assistant Dean of Operations.*

Agricultural Education

- J. RICHARD BACON, M.S. (Tennessee), *Agricultural Education Coordinator; also Associate Scientist, Food and Resource Economics.*
- PATRICIA S. BARBER, Ed.D. (Florida), *Associate Dean for Outreach and Extension; also Associate Professor, Food and Resource Economics.*

Animal and Food Sciences

- JOHN K. ROSENBERGER, Ph.D. (Wisconsin), *Professor and Chair: Microbiology.*
- ROBIN W. MORGAN, Ph.D. (Johns Hopkins), *Professor and Assistant Chair; also Professor, Biology and Professor, Chemistry and Biochemistry: Molecular virology.*
- ROBERT L. ALPHIN, JR., M.S. (Delaware), *Poultry Research Coordinator.*
- AMY ANDERSON, B.S. (Delaware), *Research Associate III.*
- JOAN BURNSIDE, Ph.D. (Dartmouth), *Associate Professor; also Associate Professor, Biological Sciences: Molecular endocrinology.*
- SANDRA S. CLOUD, Ph.D. (Delaware), *Scientist: Virology.*
- LARRY A. COGBURN, Ph.D. (Illinois), *Professor: Avian physiology.*
- CATHERINE G.A. DAVIES, Ph.D. (Leeds University), *Assistant Professor: Food biochemistry/biotechnology.*
- JOHN E. DOHMS, Ph.D. (Ohio State), *Professor: Immunology and microbiology.*
- MARLENE G. EMARA, Ph.D. (Ohio State), *Assistant Professor: Molecular immunology.*
- NEGEDE GEDAMU, B.S. (Norfolk State), *Research Associate I.*
- JACK GELB, JR., Ph.D. (Georgia), *Professor: Virology.*
- LESA GRIFFITHS, Ph.D. (Purdue), *Associate Professor; also Associate Dean for Academic Programs, College of Agriculture and Natural Resources: Monogastric nutrition.*
- LINDA L. HNATOW, M.S. (Penn State), *Research Associate III.*

- DALLAS G. HOOVER, Ph.D. (Minnesota), *Professor: Food microbiology, biotechnology, fermentations, food safety.*
- MIR N. ISLAM, Ph.D. (Louisiana State), *Professor: Food analysis, food chemistry, preservation of tropical fruits and flesh foods, ingredient manipulation for bakery products.*
- ROLF D. JOERGER, Ph.D. (North Carolina State), *Assistant Professor: Microbial genetics and physiology.*
- CALVIN KEELER, Ph.D. (Maryland), *Professor: Molecular virology.*
- LIMIN KUNG, Ph.D. (Michigan State), *Professor: Ruminant nutrition and microbiology.*
- YANGMING MARTIN LO, Ph.D. (Ohio State), *Assistant Professor: Food processing and engineering.*
- GEORGE W. MALONE, M.S. (Massachusetts), *Associate Scientist.*
- ELIZABETH P. McMULLEN, B.S. (Delaware), *Assistant to the Chair.*
- PAUL E. MECKLEY, V.M.D., Ph.D. (Wisconsin), *Associate Professor: Reproductive physiology.*
- MARCY MURPHY, B.S. (Delaware), *Research Associate II.*
- EDWIN M. ODOR, D.V.M. (Auburn), *Senior Scientist: Veterinary diagnostics.*
- CONRAD R. POPE, D.V.M. (Tuskegee), *Senior Scientist: Veterinary pathology.*
- HILARY J. REIDY, A.A.S. (Del Tech), *Research Associate I.*
- C. MELVIN REITNOUR, Ph.D. (Kentucky), *Professor: Equine nutrition and management.*
- MARIANO SALEM, V.M.Z. (Mexico), *Scientist: Veterinary diagnostics.*
- PAUL H. SAMMELWITZ, Ph.D. (Illinois), *Professor: Reproductive physiology.*
- WILLIAM W. SAYLOR, Ph.D. (Penn State), *Associate Professor; also Associate Dean, College of Agricultural Sciences, and Associate Director, Agricultural Experiment Station: Monogastric nutrition.*
- CARL J. SCHMIDT, Ph.D. (Johns Hopkins), *Assistant Professor: Genomics.*
- O. SUE SNIDER, Ph.D. (Missouri), *Extension Specialist III; also Associate Professor, Nutrition and Dietetics: Development of food safety educational materials for the public, analysis of quality attributes of food.*
- PHAEDRA I. TAVLARIDES-HONTZ, B.S. (Delaware), *Research Associate I.*
- DIANE D. TOTH, A.A.S. (Del Tech), *Research Specialist.*

Joint and Adjunct Appointments

Biological Sciences: MELINDA K. DUNCAN.

Adjunct Faculty: ROBERT M. DYER, V.M.D., Ph.D.; • MICHAEL HAAS, Ph.D.; • KEVIN B. HICKS, Ph.D.; • MICHAELA KRISTULA, D.V.M.; • HYUN S. LILLEHOJ, Ph.D.; • JOHN A. PROUDMAN, Ph.D.; • WILLIAM H. WRIGHT, V.M.D.

Bioresources Engineering

- KENNETH M. LOMAX, Ph.D. (Maryland), *Associate Professor and Chair: Ventilation systems, biological engineering.*
- CARMINE C. BALASCIO, Ph.D. (Iowa State), *Associate Professor: Storm water management, hydrologic modeling.*

ANASTASIA E. M. CHIRNSIDE, M.S. (Delaware), *Research Associate III*.
 NORMAN E. COLLINS, Ph.D. (Pennsylvania), *Professor*: Fluid dynamics, power and machinery.
 JAMES L. GLANCEY, Ph.D. (California, Davis), *Associate Professor*: Mechanical design, mechanical and fluid power systems modeling.
 RONALD C. JESTER, M.S. (Purdue), *Extension Specialist*.
 LUTHER J. KEMBLE, B.S. (Delaware), *Research Associate II*.
 PALANIAPPA KRISHNAN, Ph.D. (Illinois), *Associate Professor and Director, Operations Research Program*: Chemical spray application, machinery management.
 JOHN C. NYE, Ph.D. (Purdue), *Professor; also Dean, College of Agriculture and Natural Resources, and Director, Agricultural Experiment Station*: Waste management.
 WILLIAM F. RITTER, Ph.D. (Iowa State), *Professor*: Soil and water engineering, waste management.
 JAMES N. SCARBOROUGH, Ph.D. (Illinois), *Extension Specialist and Associate Professor*: Structures.

Entomology and Applied Ecology

JUDITH A. HOUGH-GOLDSTEIN, Ph.D. (Cornell), *Professor and Chair*: Insect pest management, insect behavior and ecology.
 DEWEY M. CARON, Ph.D. (Cornell), *Professor*: Apiology, insect behavior and general entomology.
 CLIFFORD B. O. KEIL, Ph.D. (Virginia Tech), *Associate Professor*: Insect genetics, genetics of insecticide resistance, insect pathology, mushroom insects.
 CHARLES E. MASON, Ph.D. (Kansas State), *Professor*: Pest management of stalk-boring insects, biological control and chemical ecology of host plant associations.
 PAMELA T. PLOTKIN, Ph.D. (Texas A&M), *Assistant Professor*: Ecology, animal behavior, wildlife conservation and management, especially marine turtles.
 ROLAND R. ROTH, Ph.D. (Illinois), *Professor*: Ecology, ornithology, mammalogy, and wildlife conservation.
 DOUGLAS W. TALLAMY, Ph.D. (Maryland), *Professor*: Insect ecology and ethology, the evolution of social behavior in tingids (Hemiptera), plant-insect interactions.
 JOANNE M. WHALEN, M.S. (Delaware), *Extension Specialist*: Integrated pest management.
 SUSAN P. WHITNEY, Ph.D., (North Carolina State), *Extension Specialist*: Pesticides.
 THOMAS K. WOOD, Ph.D. (Cornell), *Professor*: Insect ecology, ethology and speciation of membracids (Homoptera).

Joint and Adjunct Appointments

Animal and Food Sciences: CALVIN KEELER.

Adjunct Faculty: WILLIAM H. DAY, Ph.D.; • LINDSEY FLEXNER, Ph.D.; • ROGER W. FUESTER, B.S.; • JON GELHAUS, Ph.D.; • JOHN GINGRICH, Ph.D.; • CALEB HOLYOKE, Ph.D.; • KEITH HOPPER, Ph.D.; • JOHN JACKSON, Ph.D.; • DANIEL OTTE, Ph.D.; • PAUL SCHAEFER, Ph.D.; • MICHAEL SMITH, Ph.D.

Food and Resource Economics

CONRADO M. GEMPESAW II, Ph.D. (Penn State), *Professor and Chair; also Professor, Economics*: Production economics, agricultural finance, and statistics.
 J. RICHARD BACON, M.S. (Tennessee), *Associate Scientist*: Agricultural education, marketing and risk management.
 PATRICIA BARBER, Ed.D. (Florida), *Associate Professor; also Associate Dean for Outreach and Extension, College of Agriculture and Natural Resources*: Cooperative Extension and Outreach.
 MARGARET BROWN, Ph.D. (Delaware), *Family and Child Development Specialist*.
 JOSHUA M. DUKE, Ph.D. (Wisconsin), *Assistant Professor*: Environmental law, land use and resource economics.

CARL L. GERMAN, M.S. (Southern Illinois), *Crops Marketing Specialist*: Cooperative Extension.
 STEVEN E. HASTINGS, Ph.D. (Penn State), *Professor*: Resource economics and rural development.
 RHONDA HYDE, Ph.D. (Clemson), *Associate Professor; also Associate Professor, Operations Research Program*: Operations research and decision analysis.
 THOMAS W. ILVENTO, Ph.D. (Penn State), *Associate Professor*: Rural sociology and community economic development.
 JOHN E.A. MACKENZIE, Ph.D. (Rhode Island), *Associate Professor*: Resource economics, GIS, and land use.
 PATRICIA NELSON, Ed.D. (Columbia), *Family and Child Development Specialist; also Associate Professor, Individual and Family Studies*: Cooperative Extension.
 JOHN PESEK, Ph.D. (Michigan), *Associate Scientist*: Statistics.
 H. DON TILMON, Ph.D. (Purdue), *Farm Management Specialist*: Cooperative Extension.
 ULRICH C. TOENSMEYER, Ph.D. (Maryland), *Professor*: Food marketing management and sales, futures and options markets.
 SILVIA WEYERBROCK, Ph.D. (California-Berkeley), *Assistant Professor*: International agricultural trade and marketing.
 LAURIE G. WOLINSKI, B.S. (Delaware), *Farm Management Associate*.

Longwood Graduate Program in Public Horticulture

JAMES E. SWASEY, Ph.D. (Maryland), *Longwood Graduate Program Coordinator; also Professor, Plant and Soil Sciences*: Landscape plants, landscape maintenance.
 Additional faculty are selected annually to participate in this interdisciplinary program.

Operations Research

PALANIAPPA KRISHNAN, Ph.D. (Illinois), *Director, Operations Research Program; also Associate Professor, Bioresources Engineering*: Operations research in chemical spray application, power and machinery management.
 RICHARD J. AGNELLO, Ph.D. (Johns Hopkins), *Associate Professor, Economics*: Econometrics and forecasting, fisheries and transportation economics.
 LEE G. ANDERSON, Ph.D. (Washington, Seattle), *Professor, Marine Studies; also Professor, Economics*: Natural resources and environmental economics, fishery management, benefit-cost analysis.
 CARMINE C. BALASCIO, Ph.D. (Iowa State), *Associate Professor, Bioresources Engineering*: Soil and water.
 DANIEL L. CHESTER, Ph.D. (California, Berkeley), *Associate Professor, Computer and Information Sciences*: Artificial intelligence, natural language processing, planning systems.
 CONRADO M. GEMPESAW II, Ph.D. (Pennsylvania State), *Professor and Chair, Food and Resource Economics*: Production economics, agricultural finance.
 RHONDA L. AULL HYDE, Ph.D. (Clemson), *Associate Professor, Food and Resource Economics*: Agricultural production, inventory management.
 SHINYA KIKUCHI, Ph.D. (Pennsylvania), *Professor, Civil and Environmental Engineering*: Optimization of transportation systems and logistics.
 AJAY K. MANRAI, Ph.D. (Northwestern), *Associate Professor, Business Administration*: Econometrics, optimization theory.
 DAVID L. MILLS, Ph.D. (Michigan), *Professor, Electrical and Computer Engineering*: Data communications, computer networks and protocol engineering.
 M. ZUHAIR NASHED, Ph.D. (Michigan), *Professor, Mathematical Sciences*: Optimization and approximation theory, numerical analysis, ill-posed problems, generalized inverses, control and system theory.

MICHAEL F. POHLEN, Ph.D. (Ohio State), *Associate Professor, Business Administration*: Production and inventory control systems and models, manufacturing policy, project management.

RICHARD S. SACHER, Ph.D. (Stanford), *Manager, Information Technologies-User Services*; also *Associate Professor, Mathematical Sciences*: Mathematical programming, statistical computation.

ANDARSHPAL SETHI, Ph.D. (Indian Institute of Technology, Kanpur), *Associate Professor, Computer and Information Sciences*: Performance evaluation modeling, network management and control, local area networks, distributed systems.

CLIFFORD W. SLOYER, Jr., Ph.D. (Lehigh), *Professor, Mathematical Sciences*: Operations research in public systems and utility companies, topology.

PAUL L. SOLANO, Ph.D. (Maryland), *Associate Professor, Urban Affairs and Public Policy*: Political economy, public finance, public financial management, public choice.

ROBERT M. STARK, Ph.D. (Delaware), *Professor, Mathematical Sciences*; also *Professor, Civil and Environmental Engineering*: Probability models, civil engineering systems, management science.

JOHN S. YING, Ph.D. (California, Berkeley), *Associate Professor, Economics*: Economic theory and industrial organization.

Plant and Soil Sciences

DONALD L. SPARKS, Ph.D. (Virginia Tech), *Distinguished Professor and Chair*; also *Professor, Civil and Environmental Engineering and Professor, Chemistry and Biochemistry*: Soil and environmental chemistry.

SUSAN S. BARTON, M.S. (North Carolina State), *Horticulture Specialist*.

ROBERT B. CARROLL, Ph.D. (Penn State), *Professor*: Plant pathology.

THOMAS A. EVANS, Ph.D. (Michigan State), *Associate Professor*: Vegetable pathology.

JOHN J. FRETTE, Ph.D. (Georgia), *Professor*: Ornamental horticulture.

DAVID R. FREY, Ph.D. (Delaware), *Associate Professor*: Ornamental horticulture.

HUGH FRICK, Ph.D. (SUNY, Stony Brook), *Associate Professor*: Plant physiology.

JEFFREY J. FUHRMANN, Ph.D. (North Carolina State), *Professor*: Soil microbiology.

CAROLINE M. GOLT, B.S. (Delaware), *Research Associate III*.

JAMES A. HAWK, Ph.D. (Cornell), *Professor*: Plant breeding and genetics.

GERALD J. HENDRICKS, B.S. (Delaware), *Research Associate II*.

YAN JIN, Ph.D. (California, Riverside), *Assistant Professor*: Environmental soil physics.

W. ED KEE, JR., M.S. (Delaware), *Vegetable Crops Specialist*.

SHERRY L. KITTO, Ph.D. (Purdue), *Professor*: Ornamental horticulture.

BERTRAND LEMIEUX, Ph.D. (Laval), *Professor*: Plant biology.

ROBERT P. MULROONEY, M.S. (Delaware), *Plant Pathology Specialist/Agricultural Agent*.

CATHERINE OLSON, M.S. (Delaware), *Soil Test Analyst*.

MARIA PAUTLER, M.S. (Delaware), *Research Associate II*.

WALLACE G. PILL, Ph.D. (Missouri), *Professor*: Horticulture.

THOMPSON D. PIZZOLATO, Ph.D. (Miami University), *Professor*: Anatomy and morphology.

MARK RADOSEVICH, Ph.D. (Ohio State), *Associate Professor*: Environmental soil biochemistry.

KAREN SCHILKE-GARTLEY, M.S. (Delaware), *Program Coordinator, Soil Testing*.

ALLAN D. SHAPIRO, Ph.D. (Stanford), *Assistant Professor*: Plant biology.

J. THOMAS SIMS, Ph.D. (Michigan State), *Professor*: Soil chemistry and management.

JAMES E. SWASEY, Ph.D. (Maryland), *Professor and Coordinator of Longwood Graduate Program*: Ornamental horticulture.

RICHARD W. TAYLOR, Ph.D. (Connecticut), *Agronomy Specialist*.

ROBERT UNIATOWSKI, B.S. (Delaware), *Field Crops Associate*.

MARK VAN GESSEL, Ph.D. (North Carolina State), *Associate Professor*: Weed science.

BRUCE L. VASILAS, Ph.D. (Minnesota), *Professor*: Soil and crop management.

TECKLEMARIAM WELDEKIDAN, M.S. (Delaware), *Research Associate III*.

DARYL P. WHITTINGTON, M.S. (North Carolina State), *Research Associate II*.

Joint and Adjunct Appointments

Agricultural Engineering: CARMINE C. BALASCIO.

Entomology and Applied Ecology: JUDITH A. HOUGH-GOLDSTEIN.

Marine Studies: JOHN S. BOYER.

Adjunct Faculty: THEODORE H. CARSKI, Ph.D.; • MICHAEL J. DUFFY, Ph.D.; • EDWARD JONES, Ph.D.; • JAY JULIS, Ph.D.

COLLEGE OF ARTS AND SCIENCE

Office of the Dean

THOMAS M. DiLORENZO, Ph.D. (West Virginia), *Dean*; also *Professor, Psychology*.

JAMA M. ALLEGRETTO, M.Ed. (Delaware), *Administrative Academic Advisor*.

KATHLEEN A. BIEKER, M.A. (Central Michigan), *Assistant Dean, Parallel Program, Dover Campus*.

D. HEYWARD BROCK, Ph.D. (Kansas), *Senior Associate Dean*; also *Professor, English*.

RAYMOND A. CALLAHAN, Ph.D. (Harvard), *Associate Dean for Outreach*; also *Professor, History*.

PATRICIA S. DOREY, B.S. (Salisbury), *Assistant Dean, Parallel Program, Georgetown Campus*.

RENEE FISHER, M. Ed. (Pennsylvania), *Administrative Academic Advisor*.

LISA HUBER, B.S. (Delaware), *Executive Assistant to the Dean for Fiscal Affairs*.

PATRICIA JEFFERY, M.A. (Delaware), *Administrative Academic Advisor*.

CATHERINE McLAUGHLIN, M.A. (Delaware), *Administrative Academic Advisor*.

CYNTHIA SHENKLE, M.Ed. (Delaware), *Administrative Academic Advisor*.

MICHAEL STOKES, M.Ed. (Buffalo), *Assistant Dean*.

HELEN EASTERLING WILLIAMS, M.S. (Towson State), *Assistant Dean, Parallel Program, Wilmington Campus*.

ANN WOLFER, M.Ed. (Delaware), *Administrative Academic Advisor*.

WILLIAM W. ZAGAR, M.Ed. (Delaware), *Administrative Academic Advisor*.

IRENE ZYCH, M.S. (Delaware), *Interim Assistant Dean*.

Anthropology

JUAN A. VILLAMARIN, Ph.D. (Brandeis), *Associate Professor and Chair*.

KENNETH J. ACKERMAN, Ph.D. (Pennsylvania), *Associate Professor*.

DONNA M. BUDANI, M.S. (American), *Assistant Professor*.

JAY F. CUSTER, Ph.D. (Catholic University of America), *Professor*.

LuANN DeCUNZO (Pennsylvania), *Associate Professor*; also *Associate Professor, Winterthur Program in Early American Culture*.

THOMAS R. ROCEK, Ph.D. (Michigan), *Associate Professor*.

PETER G. ROE, Ph.D. (Illinois), *Professor*.

KAREN R. ROSENBERG Ph.D. (Michigan), *Associate Professor*.

NORMAN B. SCHWARTZ, Ph.D. (Pennsylvania), *Professor*.

PETER M. WEIL, Ph.D. (Oregon), *Associate Professor*.

Art

MARTHA L. CAROTHERS, M.F.A. (Penn State), *Professor and Chair*: Visual communications.

RANDALL C. BOLTON, M.F.A. (Ohio State), *Associate Professor*: Printmaking.

KAREN S. BUTLER, M.F.A. (Rhode Island School of Design), *Assistant Professor*: Foundations and contemporary issues.

LARRY W. HOLMES, M.F.A. (Cranbrook Academy of Fine Arts), *Professor*: Painting.

VERA E. KAMINSKI, M.F.A. (Maryland Institute College of Art), *Associate Professor*: Fibers.

ROSEMARY LANE, M.F.A. (Oregon), *Professor*: Printmaking.

RENE MARQUEZ, M.F.A. (University of Pennsylvania), *Assistant Professor*: Drawing.

RAYMOND D. NICHOLS, M.F.A. (Louisiana Tech), *Professor*: Visual communications.

ROBYN PHILLIPS-PENDLETON, M.F.A. (Syracuse), *Assistant Professor*: Illustration.

PRISCILLA SMITH, M.F.A. (Illinois), *Associate Professor*: Photography.

VICTOR SPINSKI, M.F.A. (Indiana), *Professor*: Ceramics.

ROBERT STRAIGHT, M.F.A. (Cranbrook Academy of Fine Arts), *Professor*: Painting.

STEPHEN G. TANIS, M.F.A. (Cranbrook Academy of Fine Arts), *Professor*: Painting.

JOHN J. WEISS, M.F.A. (Rhode Island School of Design), *Professor*: Photography.

Joint and Adjunct Appointments

Art Conservation: HILTON BROWN.
University Gallery: BELENA S. CHAPP.

Art Conservation

BRYANT F. TOLLES, JR., Ph.D. (Boston University), *Interim Chair*; also *Director and Associate Professor, Museum Studies and Associate Professor, History and Art History*.

HILTON BROWN, M.F.A. (Art Institute of Chicago), *Harriet T. Bailey Professor of Art, Art Conservation, and Art History*: History of artists' techniques.

DEBRA HESS NORRIS, M.S. (Delaware), *Associate Professor*; also *Director of B.A. Program, Director of M.S. Program and Conservator of Photographs*: Photograph conservation treatment, collections care, disaster response.

CHANDRA REEDY, Ph.D. (California, Los Angeles), *Associate Professor and Director of Ph.D. Program*; also *Associate Professor of Museum Studies and Associate Professor of Urban Affairs and Public Policy*: Conservation research and technical studies, south asian art history.

JOYCE HILL STONER, Ph.D. (Delaware and Certificate in Conservation, New York University), *Professor*; also *Paintings Conservator*: Paintings, conservation, history of conservation, artists' techniques, Whistler, Wyeth.

RICHARD C. WOLBERS, M.F.A. (California, San Diego), M.S. (Delaware), *Associate Professor*; also *Science Coordinator, Paintings Conservator*: Paintings conservation.

Joint and Adjunct Appointments

Chemistry and Biochemistry: THOMAS BRILL, GORDON NICOL.
Geography: THOMAS MEIERDING.
Geology: PETER LEAVENS.
Mechanical Engineering: IAN HALL.

Adjunct Faculty: MARK ANDERSON, B.A.; • MARK BOCKRATH, M.S.; • JANICE CARLSON, M.S.; • HERBERT L. CROSSAN; • CLAUDIA DESCHU, M.S.; • KATE DUFFY, M.S.; • LINDA EATON, Certificate; • BETTY FISKE, M.S.; • JOY GARDINER, M.S.; • EBENEZER KOTEL, Certificate; • JOHN KRILL, M.A.; • GREGORY LANDREY, B.A.; • MARGARET LITTLE, M.S.; • MICHAEL PODMANICZKY, M.A.; • BRUNO POULIOT, M.S.; • LOIS PRICE, M.S., M.A.; • ROBERTA TARBELL, Ph.D.

Art History

ANN E. GIBSON, Ph.D. (University of Delaware), *Professor and Chair*: Contemporary and American art, African-American art.

NINA ATHANASSOGLU-KALLMYER, Ph.D. (Princeton), *Professor*: Eighteenth- and nineteenth-century European art.

DAVID BRODY, Ph.D. (Boston University), *Assistant Professor*: American art, past-colonial art.

H. PERRY CHAPMAN, Ph.D. (Princeton), *Professor*: Baroque art, especially seventeenth-century Dutch painting.

J. STEPHENS CRAWFORD, Ph.D. (Harvard), *Professor*: Ancient art.

JODI HAUPTMAN, Ph.D. (Yale), *Assistant Professor*: Twentieth-century art.

BERNARD L. HERMAN, Ph.D. (Pennsylvania), *Professor*; also *Professor, History, and Senior Policy Scientist, Urban Affairs and Public Policy*: American vernacular architecture and folk and ethnic art.

JENNIFER B. HINTLIAN, M.A. (Boston), *Assistant Slide Librarian*.

WILLIAM I. HOMER, Ph.D. (Harvard), *H. Rodney Sharp Professor*: European and American art, 1870 to present, and history of photography.

LAWRENCE P. NEES, JR., Ph.D. (Harvard), *Professor*: Medieval art.

LENIS H. NORTHMORE, M.L.S. (Simmons), *Slide Librarian*.

LINDA PELLECCIA, Ph.D. (Harvard), *Associate Professor*: History of architecture, Renaissance art.

DAMIE STILLMAN, Ph.D. (Columbia), *John W. Shirley Professor*; also *John W. Shirley Professor, Winterthur Program in Early American Culture*: English and American architecture and decorative arts.

DAVID M. STONE, Ph.D. (Harvard), *Associate Professor*: Baroque art, especially Italian painting.

STEPHAN WOLOHOJIAN, Ph.D. (Harvard), *Assistant Professor*: Italian Renaissance art.

Joint and Adjunct Appointments

Art Conservation: HILTON BROWN.
International Programs and Special Sessions: MARTIN J. POSTLE.
Museum Studies: BRYANT F. TOLLES, JR.

Biological Sciences

DANIEL CARSON, Ph.D. (Temple), *Professor and Chair*: Extracellular matrix structure and function.

GREGORY A. STEPHENS, Ph.D. (Kansas), *Associate Professor and Associate Chair*: Cardiovascular regulation, renin-angiotensin-aldosterone system.

DEBORAH E. ALLEN, Ph.D. (Delaware), *Associate Professor*: Science education.

JAMES F. CAHILL, Ph.D. (Pennsylvania), *Assistant Professor*: Plant community ecology.

WILLIAM J. CAIN, Ph.D. (Delaware), *Assistant Professor*.

L. LEON CAMPBELL, Ph.D. (Texas), *Hugh M. Morris Research Professor of Molecular Biosciences*: Molecular biology, microbial phylogeny.

HOWARD V. CORNELL, Ph.D. (Cornell), *Professor*: Comparative ecology.

SANDRA M. DEAN, M.S. (Delaware), *Executive Assistant*.

PATRICIA A. DeLEON, Ph.D. (Western Ontario), *Professor*: Human genetics.

LINDA K. DION, M.S. (Cornell), *Instructor*: Science education and pedagogy.

JOHN C. DUNCAN, Ph.D. (Loma Linda), *Assistant Professor*: Human sexuality, physiology, development, problem-based learning.

MELINDA DUNCAN, Ph.D. (Rutgers), *Assistant Professor*: Vertebrate eye development.

MARY CYNTHIA FARACH-CARSON, Ph.D. (Virginia Commonwealth), *Associate Professor*: Calcium channels in bone.

STEVEN J. FIFIELD, (University of Minnesota), *Lecturer*: Biology education, science studies.

DAVID W. FRANCIS, Ph.D. (Wisconsin), *Professor*: Developmental microbiology.

DIANE S. HERSON, Ph.D. (Rutgers), *Associate Professor*: Microbial physiology.

ROBERT C. HODSON, Ph.D. (Cornell), *Associate Professor*: Plant molecular genetics.

SEUNG MOOK HONG, Ph.D. (Delaware), *Laboratory Coordinator*.

RONALD H. KARLSON, Ph.D. (Duke), *Professor*: Population and community ecology.

ROBERT B. KETCHAM, Ph.D. (Delaware), *Laboratory Coordinator*.

GARY H. LAVERTY, Ph.D. (Connecticut), *Associate Professor and Program Director, Integrative Biology*: Renal physiology.

JOHN McDONALD, Ph.D. (SUNY, Stony Brook), *Associate Professor*: Evolutionary genetics.

GEORGE R. MOLLOY, Ph.D. (Virginia Tech), *Associate Professor*: Cell and molecular biology.

ULHAS NAIK, Ph.D. (University of Bombay), *Assistant Professor*: Cell adhesion and signaling.

JANE NOBLE-HARVEY, Ph.D. (California, San Francisco), *Associate Professor*: Infectious diseases, human cancer, and cell biology.

JACQUES J. PENE, Ph.D. (California, Los Angeles), *Associate Professor*; also *Associate Professor, Chemistry and Biochemistry*: Molecular genetics.

CARLOS R. PLATA-SALAMAN, M.D. (Guadalajara, Mexico), Ph.D. (Kyushu, Japan), *Professor*: Neurophysiology, neuroimmunology, and behavioral neuroscience.

FLORENCE I. SCHMIEG, Ph.D. (Delaware), *Assistant Professor*: Molecular biology, cancer mechanisms, science education.

DAVID E. SHEPPARD, Ph.D. (Johns Hopkins), *Associate Professor*: Microbial genetics.

DANIEL T. SIMMONS, Ph.D. (Cal. Tech.), *Professor and Program Director, Molecular Biology*: Virology, molecular biology.

RIVERS SINGLETON, JR., Ph.D. (Kansas), *Associate Professor*, also *Associate Professor, English*: Microbial physiology and biochemistry, history of biochemistry.

STEVEN D. SKOPIK, Ph.D. (Princeton), *Professor*: Comparative physiology.

AMY T. SMITH, Ph.D. (University of Delaware), *Assistant Professor*: Bioclimatology and environmental biology.

DAVID W. SMITH, Ph.D. (Wisconsin), *Associate Professor*: Microbial ecology.

DAVID G. SPERRY, Ph.D. (Chicago), *Associate Professor*: Developmental anatomy.

MILTON H. STETSON, Ph.D. (Washington), *Professor*: Comparative endocrinology, reproductive physiology.

MALCOLM H. TAYLOR, Ph.D. (Johns Hopkins), *Associate Professor*; also *Associate Professor, College of Marine Studies*: Environmental physiology, fish reproduction.

DAVID C. USHER, Ph.D. (Iowa), *Associate Professor*: Immunogenetics.

ROGER C. WAGNER, Ph.D. (Minnesota), *Professor*: Cell biology.

PATRICIA WALSH, Ph.D. (Minnesota), *Assistant Professor*.

Joint Appointments

Animal and Food Sciences: ROBIN W. MORGAN, JOAN BURNSIDE.

Entomology and Applied Ecology: DOUGLAS W. TALLAMY, THOMAS K. WOOD.

Marine Studies: KENT S. PRICE.

Psychology: SEYMOUR LEVINE, DAVID P.M. NORTHMORE.

University Parallel Program: LAWRENCE A. CURTIS, KENNETH A. PARSONS, SHARON S. TUCKER.

Black American Studies

CAROLE C. MARKS, Ph.D. (New York University), *Director and Professor*; also *Professor, Sociology and Criminal Justice*.

HOWARD B. JOHNSON, Ph.D. (Oxford), *Professor*; also *Professor, History*.

JAMES E. NEWTON, Ed.D. (Illinois), *Professor*.

Chemistry and Biochemistry

STEVEN D. BROWN, Ph.D. (Washington), *Professor and Chair*: Analytical chemistry.

JOHN L. BURMEISTER, Ph.D. (Northwestern), *Alumni Distinguished Professor and Associate Chair for Undergraduate Studies*: Inorganic chemistry.

MURRAY V. JOHNSTON, Ph.D. (Wisconsin-Madison), *Professor and Assistant Chair for Graduate Studies*: Analytical chemistry.

ROBERT D. BACH, Ph.D. (M.I.T.), *Research Professor*: Organic chemistry.

BRIAN J. BAHNSON, Ph.D. (Brown), *Assistant Professor*: Biochemistry.

SHI BAI, Ph.D. (Utah), *NMR Spectroscopist*.

THOMAS B. BRILL, Ph.D. (Minnesota), *Professor*: Inorganic chemistry.

JOHN E. BULKOWSKI, Ph.D. (Carnegie-Mellon), *Associate Professor*: Inorganic chemistry.

DANA S. CHATELLIER, M.A. (Delaware), *Education Specialist*.

JUNGHUEI CHEN, Ph.D. (New York), *Assistant Professor*: Biochemistry.

ROBERTA F. COLMAN, Ph.D. (Harvard), *Professor*: Biochemistry.

DON DENNIS, Ph.D. (Brandeis), *Professor*: Biochemistry.

DOUGLAS J. DOREN, Ph.D. (Harvard), *Professor*: Physical chemistry.

CECIL R. DYBOWSKI, Ph.D. (Texas), *Professor*: Physical chemistry.

DENNIS H. EVANS, Ph.D. (Harvard), *Professor*: Analytical chemistry.

P. ANDREW EVANS, Ph.D. (Cambridge), *Associate Professor*: Organic chemistry.

SUSAN E. GROH, Ph.D. (Stanford), *Assistant Professor*: Inorganic chemistry.

MAHENDRA K. JAIN, Ph.D. (Weizmann Institute, Israel), *Professor*: Biochemistry.

JOHN T. KOH, Ph.D. (Columbia), *Assistant Professor*: Organic chemistry.

EUGENE G. MUELLER, Ph.D. (Harvard), *Assistant Professor*: Biochemistry.

BURNABY MUNSON, Ph.D. (Texas), *Professor*: Analytical chemistry.

SHARON NEAL, Ph.D. (Emory University), *Associate Professor*: Analytical chemistry.

GORDON R. NICOL, Ph.D. (Alberta), *Mass Spectrometrists*.

GEORGE J. REILLY, Ph.D. (Massachusetts), *Assistant Professor*: Organic chemistry.

ARNOLD L. RHEINGOLD, Ph.D. (Maryland), *Professor*: Inorganic chemistry.

DOUGLAS P. RIDGE, Ph.D. (Harvard), *Professor*: Physical chemistry.

CHARLES G. RIORDAN, Ph.D. (Texas A&M), *Associate Professor*: Inorganic chemistry.

KATHRYN CLARE SCANTLEBURY, Ph.D. (Purdue), *Associate Professor*; also *Associate Professor, Education*; also *Secondary Education Coordinator*: Chemical education, science.

MELVYN D. SCHIAVELLI, Ph.D. (California, Berkeley), *Professor*; also *Provost of the University*: Organic chemistry.

DOUGLASS F. TABER, Ph.D. (Columbia), *Professor*: Organic chemistry.

ANDREW TEPLYAKOV, Ph.D. (Columbia), *Assistant Professor*: Physical chemistry.

KLAUS H. THEOPOLD, Ph.D., (California, Berkeley), *Professor*: Inorganic chemistry.

COLIN THORPE, Ph.D. (University of Kent, Canterbury), *Professor*: Biochemistry.

HAROLD B. WHITE III, Ph.D. (Brandeis), *Professor*: Biochemistry.

MARY J. WIRTH, Ph.D. (Purdue), *Professor*: Analytical chemistry.

ROBERT H. WOOD, Ph.D. (California, Berkeley), *Professor*: Physical chemistry.

Joint and Adjunct Appointments

Animal Science and Agricultural Biochemistry: ROBIN W. MORGAN.

Biological Sciences: DANIEL T. SIMMONS.

Chemical Engineering: MARK A. BARTEAU, HENRY C. FOLEY, STANLEY I. SANDLER.

Marine Studies: THOMAS M. CHURCH, GEORGE W. LUTHER, III.

Physics and Astronomy: KRZYSZTOF SZALEWICZ.

Plant and Soil Sciences: DONALD L. SPARKS.

Adjunct Faculty: STEPHEN L. BRENNER, Ph.D.; • JACQUES P. FRAISSARD, Ph.D.; • RICHARD HARLOW, Ph.D.; • LEO E. MANZER, Ph.D.

Cognitive Science

- BARBARA LANDAU, Ph.D. (Pennsylvania), *Director; also Professor, Psychology and Professor, Linguistics*: Spatial knowledge, language learning, naming and object recognition.
- BRIAN P. ACKERMAN, Ph.D. (SUNY), *Professor, Psychology; also Professor, Linguistics*: Developmental risk and family ethnotheory.
- FREDERICK ADAMS, Ph.D. (Wisconsin), *Professor and Chair, Philosophy*: Epistemology, intentional action, belief ascription.
- MARK AMSLER, Ph.D. (Ohio State), *Professor, English; also Professor, Linguistics*: Semiotics, history of linguistics.
- LOUIS ARENA, Ph.D. (Georgetown), *Associate Professor, Linguistics; also Associate Professor, English*: Applied linguistics, ESL, composition, Japanese.
- CYNTHIA BROWN, Ph.D. (McGill), *Assistant Professor, Linguistics*: Phonology, language acquisition, speech perception.
- SANDRA CARBERRY, Ph.D. (Delaware), *Professor and Chair, Computer and Information Sciences; also Professor, Linguistics*: Artificial intelligence, natural language processing.
- JOHN CASE, Ph.D. (Illinois), *Professor, Computer and Information Sciences*: Computational learning theory, recursive function theory.
- DANIEL CHESTER, Ph.D. (California, Berkeley), *Associate Professor, Computer and Information Sciences; also Associate Professor, Linguistics*: Artificial intelligence, natural language processing.
- PETER COLE, Ph.D. (Illinois), *Professor, Linguistics*: Syntax, semantics, Quecha, Hebrew, Chinese.
- RALPH FERRETTI, Ph.D. (Alabama), *Professor, Education; also Professor, Psychology*: Argument and ill-defined problems.
- BRUCE FINNIE, Ph.D. (Ohio State), *Associate Professor, English; also Associate Professor, Linguistics*: History of English, American dialects, English dictionaries.
- WILLIAM FRAWLEY, Ph.D. (Northwestern), *Professor; also Professor and Chair, Linguistics and Professor, English*: Semantics, psycholinguistics, lexicography.
- ROBERTA GOLINKOFF, Ph.D. (Cornell), *H. Rodney Sharp Professor, Education; H. Rodney Sharp Professor, Linguistics; and H. Rodney Sharp Professor, Psychology*: Language acquisition and cognitive development.
- GABRIELLA HERMON, Ph.D. (Illinois), *Associate Professor, Education; also Associate Professor, Linguistics*: Syntax, language acquisition, bilingualism.
- JAMES HIEBERT, Ph.D. (Wisconsin), *H. Rodney Sharp Professor, Education*: Mathematics learning and teaching.
- JAMES HOFFMAN, Ph.D. (Illinois), *Professor, Psychology*: Visual attention, event-related brain potentials, human factors.
- WILLIAM IDSARDI, Ph.D. (M.I.T.), *Associate Professor, Linguistics*: Phonology, phonetics, morphology.
- HELENE INTRAUB, Ph.D. (Brandeis), *Professor, Psychology*: Scene perception, visuo-spatial memory, pictorial representation.
- SEYMOUR LEVINE, Ph.D. (New York University), *Research Professor, Psychology; also Director, Neuroscience Program*: Developmental psychology, neuroendocrinology.
- FREDERICK MASTERSON, Ph.D. (Princeton), *Professor, Psychology*: Animal learning, artificial intelligence, mathematical psychology.
- KATHLEEN MCCOY, Ph.D. (Pennsylvania), *Associate Professor, Computer and Information Sciences; also Associate Professor, Linguistics*: Artificial intelligence, natural language processing.
- JOHN MCCLAUGHLIN, Ph.D. (New York University), *Associate Professor, Psychology*: Aesthetics, perception, memory.
- LUDWIG MOSBERG, Ph.D. (California, Los Angeles), *Associate Professor, Education; also Associate Professor, Linguistics*: Information processing, language comprehension and memory.
- FRANK MURRAY, Ph.D. (Johns Hopkins), *H. Rodney Sharp Professor, Education; also H. Rodney Sharp Professor, Psychology*: Children's cognitive development, educational policy.
- DAVID NORTHMORE, Ph.D. (Sussex, England), *Associate Professor, Psychology*: Neurophysiology of vision and visual development.

- COLIN PHILLIPS, Ph.D. (M.I.T.), *Assistant Professor, Linguistics*: Syntax, language processing and acquisition, neurolinguistics.
- JOEL PUST, Ph.D. (Arizona), *Assistant Professor, Psychology*: Philosophy of mind, epistemology.
- EVELYN SATINOFF, Ph.D. (Pennsylvania), *Professor and Chair, Psychology*: Neural integration of sleep, circadian rhythms, thermoregulation.
- NANCY SCHWEDA-NICHOLSON, Ph.D. (Georgetown), *Professor, Linguistics*: Interpretation, bilingualism, French.
- THOMAS SCOTT, Ph.D. (Duke), *Professor, Psychology*: Taste, eating, neuroscience, sensory systems.
- SATOSHI TOMIOKA, Ph.D. (Massachusetts), *Assistant Professor, Linguistics*: Semantics, syntax, East Asian languages.
- RICHARD VENEZKY, Ph.D. (Stanford), *Unidel Professor, Education; also Unidel Professor, Computer and Information Sciences and Unidel Professor, Linguistics*: Writing systems, natural language processing, literacy.
- K. VIJAYASHANKER, Ph.D. (Pennsylvania), *Associate Professor, Computer and Information Sciences; also Associate Professor, Linguistics*: Artificial intelligence, natural language processing.
- IRENE VOGEL, Ph.D. (Stanford), *Associate Professor, Linguistics*: Phonology, morphology.
- JOHN WHALEN, Ph.D. (Johns Hopkins), *Assistant Professor, Psychology*: Numerical cognition, neuroscientific approaches to cognition.

Joint and Adjunct Appointments

- Applied Science and Engineering Laboratory*: H. TIMOTHY BUNNELL, BETH A. MINEO

Communication

- JOHN A. COURTRIGHT, Ph.D. (Iowa), *Professor and Chair*: Interpersonal communication, statistics and research methodology, multi-media presentation technology.
- RALPH BEGLEITER, M.A. (Columbia), *Distinguished Journalist in Residence; also Distinguished Journalist in Residence, English and Political Science and International Relations*.
- SHEILA C. CRIFASI, M.A. (Boston), *Instructor*: Public relations.
- JULIET L. DEE, Ph.D. (Temple), *Associate Professor*: Mass communication, mass media law.
- BETTY J. HASLETT, Ph.D. (Minnesota), *Professor; also Professor, Psychology and Director, Women's Studies*: Conversational analysis, psychology and sociology of language, communication theory, organizational culture.
- ASCAN F. KOERNER, Ph.D. (University of Wisconsin), *Assistant Professor*: Interpersonal communication.
- DOUGLAS McLEOD, Ph.D. (Minnesota), *Associate Professor*: Mass communication theory and methodology.
- CHARLES PAVITT, Ph.D. (Wisconsin), *Associate Professor*: Communication theory, interpersonal and small group communication, language.
- ELIZABETH M. PERSE, Ph.D. (Kent State), *Associate Professor*: Uses and effects of mass media, interface of personal and mediated communication.
- WENDY SAMTER, Ph.D. (Purdue), *Associate Professor*: Interpersonal communication and social development.
- NANCY SIGNORIELLI, Ph.D. (Pennsylvania), *Professor*: Mass communication, media effects, media and children, television and conceptions of social reality.
- ROBIN VAGENAS, M.A. (Delaware), *Instructor*: Oral communication, multi-media presentation.

Adjunct Appointment

- Student Life*: CHARLES L. TARVER, M.A.

Comparative Literature

- NICHOLAS P. GROSS, Ph.D. (North Carolina), *Associate Professor and Coordinator; also Associate Professor, Foreign Languages and Literatures*.

THEODORE E.D. BRAUN, Ph.D. (California, Berkeley), *Professor*; also *Professor, Foreign Languages and Literatures*.

ROGER L. COX, Ph.D. (Columbia) *Professor*; also *Professor, English*.

JAY L. HALIO, Ph.D. (Yale), *Professor*; also *Professor, English and Theatre*.

JUDY P. McINNIS, Ph.D. (North Carolina), *Associate Professor*; also *Associate Professor, Foreign Languages and Literatures*.

ELLEN I. PIFER, Ph.D., (California, Berkeley), *Professor*; also *Professor, English*.

ALFRED R. WEDEL, Ph.D. (Pennsylvania), *Professor*; also *Professor, Linguistics*, and *Professor, Foreign Languages and Literatures*.

Computer and Information Sciences

M. SANDRA CARBERRY, Ph.D. (Delaware), *Professor and Chair*; also *Professor, Linguistics*: Artificial intelligence, natural language understanding and generation, intelligent interfaces, user modeling.

GAGAN AGRAWAL, Ph.D. (Maryland), *Assistant Professor*: Compiler optimizations, interprocedural analysis, software development tools, compiling for advanced architectures, parallel and distributed systems, programming languages.

RICHARD A. ALBRIGHT, Ph.D. (Delaware), *Associate to the Chair*.

PAUL D. AMER, Ph.D. (Ohio State), *Professor*; also *Professor, Electrical and Computer Engineering*: Computer networks, performance measurement, formal description techniques for protocols (Estelle).

JOHN CASE, Ph.D. (Illinois), *Professor*: Computational learning theory, computability theory, machine learning, lattice computers.

B.F. CAVINESS, Ph.D. (Carnegie-Mellon), *Professor*; also *Professor, Mathematical Sciences*: Computer algebra, analysis of algorithms.

DANIEL L. CHESTER, Ph.D. (California, Berkeley), *Associate Professor*; also *Associate Professor, Linguistics*: Artificial intelligence, natural language processing, theorem proving, knowledge representation.

GEORGE COLLINS, Ph.D. (Cornell), *Research Professor*: Computer algebra.

KEITH S. DECKER, Ph.D. (Massachusetts), *Assistant Professor*: Distributed and real-time problem solving, multi-agent systems, computational organization design, concurrent engineering, parallel and distributed planning and scheduling, distributed information gathering.

CHANDRA KAMBHAMETTU, Ph.D. (South Florida), *Assistant Professor*: Computer vision, image processing, computer graphics and multimedia.

ERROL L. LLOYD, Ph.D. (M.I.T.), *Professor*: Design and analysis of algorithms.

KATHLEEN F. MCCOY, Ph.D. (Pennsylvania), *Associate Professor*; also *Associate Professor, Linguistics*: Artificial intelligence, natural-language generation and understanding, knowledge representation.

LORI L. POLLOCK, Ph.D. (Pittsburgh), *Associate Professor*: Compiler construction, code optimization, software development tools, parallel computing.

B. DAVID SAUNDERS, Ph.D. (Wisconsin), *Associate Professor*; also *Associate Professor, Mathematical Sciences*: Computer algebra, analysis of algorithms, parallel computation.

TUNCAY SAYDAM, Ph.D. (Istanbul Technical University), *Professor*: Performance evaluation, computer communication networks, discrete system simulation.

ADARSHPAL S. SETHI, Ph.D. (Indian Institute of Technology, Kanpur), *Associate Professor*: Computer networks, network management and control, congestion control, real-time protocols, distributed systems, performance modeling.

CHIEN-CHUNG SHEN, Ph.D. (UCLA), *Assistant Professor*: Network control and management, distributed object computing, distributed simulation.

K. VIJAYASHANKER, Ph.D. (Pennsylvania), *Associate Professor*: Artificial intelligence, natural language processing, unification-based grammatical systems, knowledge-representation languages.

DAVID WOOD, Ph.D. (Rhode Island), *Research Associate Professor*: Computer algebra, analysis of algorithms.

Joint Appointments

Center for Applied Science and Engineering: H. TIMOTHY BUNNELL. *Education*: RICHARD L. VENEZKY

Electrical and Computer Engineering: CHARLES BONCELET; GUANG GAO; ASHFAQ KHOKHAR; DAVID L. MILLS.

Mathematical Sciences: ROBERT P. GILBERT, RENATE SCHEIDLER.

English

JERRY C. BEASLEY, Ph.D. (Northwestern), *Professor and Chair*: Novel, eighteenth-century literature.

JAMES M. DEAN, Ph.D. (Johns Hopkins), *Professor and Associate Chair*: Medieval literature.

DEBORAH ANDREWS, M.A. (Wyoming), *Professor*.

ANN L. ARDIS, Ph.D. (Virginia), *Associate Professor*; also *Director, University Honors Program*: Theory, modern literature.

JOAN BENNETT, Ph.D. (Stanford), *Professor*; also *Coordinator of Undergraduate Research Program*: Milton.

ROBERT B. BENNETT, Ph.D. (Stanford), *Associate Professor*: Renaissance literature.

ROBERT D. BETHKE, Ph.D. (Pennsylvania), *Associate Professor*.

D. HEYWARD BROCK, Ph.D. (Kansas), *Professor*; also *Senior Associate Dean, College of Arts and Science*: Renaissance literature.

R. JOHN BROCKMANN, D.A. (Michigan), *Professor*.

MICHAEL A. COTSELL, Ph.D. (Birmingham), *Associate Professor*: Victorian literature.

RICHARD A. DAVISON, Ph.D. (Wisconsin), *Professor*: American literature.

CARL DAWSON, Ph.D. (Columbia), *Professor*: Nineteenth-century literature, autobiography.

ROBERT A. DAY, M.A. (Columbia), *Professor*.

JOAN DeFATTORE, Ph.D. (Penn State), *Professor*: Literature and pedagogy.

PETER FENG, Ph.D. (Iowa), *Assistant Professor*: Asian-American film.

W. BRUCE FINNIE, Ph.D. (Ohio State), *Associate Professor*; also *Associate Professor, Linguistics*: Medieval literature, history of the English language, American dialectology.

PHILIP D. FLYNN, Ph.D. (Maryland), *Professor*: Romantic literature.

BARBARA T. GATES, Ph.D. (Bryn Mawr), *Alumni Distinguished Professor*: Victorian literature.

SUSAN GOODMAN, Ph.D. (New Hampshire), *Professor*: American literature and English education.

JONATHAN H. GROSSMAN, Ph.D. (Pennsylvania), *Assistant Professor*: Nineteenth-century British literature.

EDWARD V. GUERRERO, Ph.D. (California, Berkeley), *Associate Professor*: Cultural theory, African-American literature.

JAY L. HALIO, Ph.D. (Yale), *Professor*; also *Professor, Theatre and Professor, Comparative Literature*: Renaissance literature, modern British literature.

MARCIA PEOPLES HALIO, M.A. (Delaware), *Assistant Professor*.

STEVEN HELMLING, Ph.D. (Rutgers), *Associate Professor*: Modern literature.

CAROL HENDERSON, Ph.D. (California, Riverside), *Assistant Professor*: African-American literature.

SARAH HOROWITZ, Ph.D. (Brandeis), *Associate Professor*; also *Director, Jewish Studies Program*: Modern literature.

FLEDA JACKSON, Ph.D. (Arkansas), *Professor*: Poetry and English education.

M. DENNIS JACKSON, Ph.D. (Arkansas), *Professor*: Modern literature.

McKAY JENKINS, Ph.D. (Princeton), *Assistant Professor*: African American literature.

BERNARD L. KAPLAN, M.F.A. (Iowa), *Associate Professor*: Creative writing (fiction).

GILDA KELSEY, M.A. (Delaware), *Instructor*; also *Assistant Director, University Writing Center*.

KEVIN J. KERRANE, Ph.D. (North Carolina), Professor: Drama, literary criticism.

MATTHEW KINSERVIK, Ph.D. (Pennsylvania State), Assistant Professor: Eighteenth-century British literature.

THOMAS LEITCH, Ph.D. (Yale), Professor: Literary theory.

J.A. LEO LEMAY, Ph.D. (Pennsylvania), Winterthur Professor: American literature.

DONALD C. MELL, Ph.D. (Pennsylvania), Professor: Eighteenth-century literature.

GEORGE MILLER, Ph.D. (Connecticut), Professor: Seventeenth-century literature, bibliography.

CLYDE A. MONEYHUN, Ph.D. (Arizona), Assistant Professor; also Director, University Writing Center.

THOMAS H. PAULY, Ph.D. (California, Berkeley), Professor: American literature.

JEANNE PFAELZER, Ph.D. (University of London), Professor; also Director, Writing Fellows Program, University Honors Program: Feminist theory.

ELLEN I. PIFER, Ph.D. (California, Berkeley), Professor; also, Professor, Comparative Literature: Modern literature, novel.

KRISTEN E. POOLE, Ph.D. (Harvard), Assistant Professor: Renaissance literature.

LOIS D. POTTER, Ph.D. (Girton College at Cambridge), Ned B. Allen Professor: Renaissance literature.

ALVINA E. QUINTANA, Ph.D. (California, Santa Cruz), Associate Professor: Multicultural studies, women's literature.

MICHAEL P. REWA, Ph.D. (Stanford), Associate Professor: Eighteenth-century literature.

MARY P. RICHARDS, Ph.D. (Wisconsin), Professor: Anglo Saxon and medieval literature.

CHARLES E. ROBINSON, Ph.D. (Temple), Professor: Romantic literature.

HARRIS E. ROSS, Ph.D. (Arkansas), Associate Professor.

GIBBONS RUARK, M.A. (Massachusetts), Professor: Creative writing (poetry).

ELAINE B. SAFER, Ph.D. (Case-Western), Professor: Seventeenth-century literature, the novel.

BONNIE KIME SCOTT, Ph.D. (North Carolina), Professor: Irish literature, feminist theory, modern literature.

CRUCE STARK, Ph.D. (Harvard), Professor: American literature.

JEANNE MURRAY WALKER, Ph.D. (Pennsylvania), Professor: Creative writing, children's literature.

REBECCA WORLEY, M.A. (Delaware), Instructor.

BEN YAGODA, M.A. (Pennsylvania), Associate Professor.

JULIAN D. YATES, Ph.D. (UCLA), Assistant Professor: Renaissance literature.

Joint and Adjunct Appointments

Biological Sciences: RIVERS SINGLETON.

Communication: RALPH BEGLEITER.

Linguistics: LOUISE ARENA, WILLIAM FRAWLEY.

Adjunct Faculty: HORST ARNDT, Ph.D. • WERNER ENNINGER, Ph.D.

Foreign Languages and Literatures

RICHARD A. ZIPSER, Ph.D. (Johns Hopkins), Professor and Chair: German.

SUSAN A. AMERT, Ph.D. (Yale), Associate Professor: Russian.

RUTH J. BELL, M.A. (Marquette), Instructor: Spanish.

ANNA BERGSTRÖM, Ph.D. (Penn State), Assistant Professor: French.

MILLICENT A. BOLDEN, Ph.D. (North Carolina), Assistant Professor: Spanish.

THEODORE E.D. BRAUN, Ph.D. (California, Berkeley), Professor: French and comparative literature.

COURTNEY BRADLEY, M.A. (Delaware), Instructor: Spanish.

JOAN L. BROWN, Ph.D. (Pennsylvania), Elias Ahuja Professor: Spanish.

HANS-JÖRG BUSCH, Ph.D. (Leipzig), Assistant Professor: Spanish.

IRIS BUSCH, Ph.D. (Leipzig), Assistant Professor: German and Spanish.

ALICE K. CATALDI, M.A. (Connecticut), Instructor: French.

JUDY A. CELLI, M.A. (Delaware), Instructor: French.

LISA CHIEFFO, M.A. (Delaware), Instructor: German and Italian.

KATRIEN CHRISTIE, Ph.D. (Delaware), Assistant Professor: Italian.

DONNA COULET DU GARD, M.A. (Delaware), Instructor: French.

JORGE H. CUBILLOS, Ph.D. (Penn State), Assistant Professor: Spanish.

JAMES DeJONG, M.A. (Delaware), Instructor: Spanish.

IVO DOMINGUEZ, Ph.D. (Florida State), Associate Professor: Spanish.

MARY P. DONALDSON-EVANS, Ph.D. (Pennsylvania), Professor: French.

R. GARY FERGUSON, Ph.D. (Durham, England), Associate Professor: French.

GABRIELLA FINIZIO, D.M.L. (Middlebury), Assistant Professor: Italian.

CARMEN FINNICUM, M.A. (Delaware), Instructor: Spanish.

ANNETTE L. GIESECKE, Ph.D. (Harvard University), Assistant Professor: Classics.

JENNIFER GIULIANI, M.A. (Delaware), Instructor: Spanish.

LEE T. GLEN, Ph.D. (Pennsylvania), Assistant Professor: Spanish.

NICOLAS P. GROSS, Ph.D. (North Carolina), Associate Professor: Classics and comparative literature.

LYSETTE F. HALL, M.A. (Paris XII), Instructor: French.

CRISTA J. JOHNSON, M.A. (Delaware), Instructor: Spanish.

THOMAS A. LATHROP, Ph.D. (California, Los Angeles), Professor: Spanish.

ALEXANDER LEHRMAN, Ph.D. (Yale), Associate Professor: Russian.

LAWRENCE E. MARCEAU, Ph.D. (Harvard), Associate Professor: Japanese.

AMERICA MARTINEZ-LEWIS, Ph.D. (Illinois, Urbana-Champaign), Assistant Professor: Spanish.

THOMAS V. McCONE, Ph.D. (Delaware), Director, Media Center and Assistant Professor: Spanish.

JUDY B. McINNIS, Ph.D. (North Carolina), Associate Professor: Spanish and comparative literature.

SUSAN M. McKENNA, Ph.D. (Indiana), Assistant Professor: Spanish.

MARK MILLER, Ph.D. (Delaware), Assistant Professor: Japanese.

KRYSZYNA P. MUSIK, M.A. (Houston) and M.A. (Delaware), Instructor: Spanish.

NANCY NOBILE, Ph.D. (Johns Hopkins), Associate Professor: German.

FLORA M. POINDEXTER, M.A. (Delaware), Instructor: French.

WILLY RIEMER, Ph.D. (Yale), Associate Professor: German.

BONNIE A. ROBB, Ph.D. (Bryn Mawr), Associate Professor: French.

EUNHEE C. ROTH, M.A. (Nagoya), Instructor: Japanese.

RICCARDA SAGGESE, M.A. (Naples), Instructor: Italian.

LAURA A. SALSINI, Ph.D. (Indiana), Assistant Professor: Italian.

CYNTHIA SCHMIDT-CRUZ, Ph.D. (Wisconsin), Assistant Professor: Spanish.

ALEXANDER R. SELIMOV, Ph.D. (Pennsylvania), Assistant Professor: Spanish.

MONIKA SHAFI, Ph.D. (Maryland), Professor: German.

RAE STABOSZ, B.A. (Illinois), Assistant Director, Media Center.

DEBORAH B. STEINBERGER, Ph.D. (New York), Assistant Professor: French and comparative literature.

DAVID L. STIXRUDE, Ph.D. (Princeton), Associate Professor: Spanish.

BRUNO THIBAUT, Ph.D. (Paris X) and Ph.D. (Maryland), Associate Professor: French.

ELIZABETH K. THIBAUT, M.A. (Maryland), Instructor: German.

SUZANNE TIERNEY-GULA, M.A. (Delaware), Instructor: Spanish.

BARBARA L. TOCCAFONDI, M.A. (Middlebury), Instructor: French.

AMALIA C. VEITIA, M.A. (Delaware), Instructor: Spanish.

BARBARA B. WARE, M.A. (Delaware), Instructor: Spanish.

ALFRED R. WEDEL, Ph.D. (Pennsylvania), Professor: German and Spanish.

Geography

- CORT J. WILLMOTT, Ph.D. (California, Los Angeles), *Professor and Chair; also Professor, College of Marine Studies*: Climatology, quantitative methods.
- BRIAN HANSON, Ph.D. (Minnesota), *Associate Professor and Associate Chair*: Climate dynamics, glaciology, numerical modeling.
- EDMUNDS V. BUNKSE, Ph.D. (California, Berkeley), *Associate Professor*: Cultural geography, history of ideas, urban-cultural geography, Baltic Sea region.
- TRACY L. DeLIBERTY, Ph.D. (Oklahoma), *Assistant Professor*: Geographical information systems, climatology, remote sensing.
- LAURENCE S. KALKSTEIN, Ph.D. (Louisiana State), *Professor*: Synoptic climatology, climate assessment, bioclimatology.
- DANIEL J. LEATHERS, Ph.D. (Penn State), *Associate Professor*: Global climate variations, snow fall and snow cover, atmospheric dynamics.
- THOMAS C. MEIERDING, Ph.D. (Colorado), *Associate Professor*: Climatic geomorphology, cartography, air photo interpretation.
- FREDERICK E. NELSON, Ph.D. (Michigan), *Professor*: Permafrost, periglacial and climatic geomorphology, topoclimatology, quaternary paleoecology.
- PETER W. REES, Ph.D. (California, Berkeley), *Associate Professor*: Urban geography historical-economic geography, Latin America, geographic education.
- YDA SCHREUDER, Ph.D. (Wisconsin), *Associate Professor; also Associate Professor, Urban Affairs and Public Policy*: Historical, urban and economic geography, sustainable development.
- APRIL R. VENESS, Ph.D. (Minnesota), *Associate Professor; also Associate Professor, Urban Affairs and Public Policy*: Urban/social, geography, minority problems and places, geographic thought.

Joint and Adjunct Appointments

- Food and Resource Economics*: JOHN E.A. MACKENZIE.
- Marine Studies*: VICTOR V. KLEMAS.
- Urban Affairs and Public Policy*: DAVID L. AMES.
- Adjunct Faculty*: WILLIAM J. COHEN, M.A.

Geology

- JOHN F. WEHMILLER, Ph.D. (Columbia), *Professor and Chair; also Professor, College of Marine Studies*: Organic geochemistry, Quaternary geochronology, coastal plain Quaternary stratigraphy.
- BILLY P. GLASS, Ph.D. (Columbia), *Professor; also Professor, College of Marine Studies*: Marine geology, impact ejecta, paleomagnetism.
- ROBERT R. JORDAN, Ph.D. (Bryn Mawr), *Professor; also Director and State Geologist, Delaware Geological Survey*: Sedimentary petrology, stratigraphy, Atlantic Coastal Plain.
- JOHN C. KRAFT, Ph.D. (Minnesota), *H. Fletcher Brown Professor; also H. Fletcher Brown Professor, Marine Studies*: Holocene coastal sedimentology and micropaleontology, geoarchaeology, Ordovician ostracoda, petroleum geology.
- PETER B. LEAVENS, Ph.D. (Harvard), *Professor; also Curator, University Mineral Collection*: Crystal structure analysis, systematic mineralogy, metacarbonates.
- JOHN A. MADSEN, Ph.D. (Rhode Island), *Associate Professor; also Associate Professor, College of Marine Studies*: Marine geophysics, marine tectonics, environmental geophysics.
- RONALD E. MARTIN, Ph.D. (California, Berkeley), *Associate Professor; also Associate Professor, College of Marine Studies*: Biostratigraphy, micropaleontology, paleoceanography, taphonomy, evolution and earth history.
- SUSAN MCGEARY, Ph.D. (Stanford), *Associate Professor; also Associate Professor, College of Marine Studies*: Continental lithospheric structure, seismic investigations of continental margins, environmental geophysics.
- JAMES E. PIZZUTO, Ph.D. (Minnesota), *Professor*: Geomorphology, sedimentology.
- ALLAN M. THOMPSON, Ph.D. (Brown), *Associate Professor*: Petrology, structural geology, sedimentology and paleoenvironmental analysis, tectonics.

Joint and Adjunct Appointments

- Delaware Geological Survey*: RICHARD N. BENSON.
- Marine Studies*: RONALD J. GIBBS, WILLIAM J. ULLMAN.
- Adjunct Faculty*: DAVID E. KRANTZ, Ph.D. • JOHN D. WIK, M.A., C.E.P.

History

- CAROLE HABER, Ph.D. (Pennsylvania), *Professor and Chair*: U.S. history, social history, aging and medicine.
- GUY ALCHON, Ph.D. (Iowa), *Associate Professor*: Twentieth-century U.S., political economy.
- SUZANNE AUSTIN ALCHON, Ph.D. (Duke), *Associate Professor and Coordinator, Latin American Studies Program*: Latin American history.
- DAVID F. ALLMENDINGER, JR., Ph.D. (Wisconsin), *Professor*: American social-cultural history, nineteenth-century U.S.
- JOHN A. BERNSTEIN, Ph.D. (Harvard), *Professor*: European intellectual history.
- ANNE M. BOYLAN, Ph.D. (Wisconsin), *Associate Professor*: U.S. social history, history of women.
- JAMES M. BROPHY, Ph.D. (Indiana), *Associate Professor*: Modern Germany.
- DANIEL F. CALLAHAN, Ph.D. (Wisconsin), *Professor*: Medieval Europe.
- RAYMOND A. CALLAHAN, Ph.D. (Harvard), *Professor; also Associate Dean for Outreach, College of Arts and Science*: Military history, twentieth-century Britain.
- JESUS CRUZ, Ph.D. (California, San Diego), *Associate Professor*: Iberian history.
- JAMES C. CURTIS, Ph.D. (Northwestern), *Professor and Director, Winterthur Program in Early American Culture*: Material culture, visual history, documentary photography.
- LAWRENCE G.J. DUGGAN, Ph.D. (Harvard), *Professor*: Renaissance and Reformation, medieval church.
- GERALD FIGAL, Ph.D. (Chicago), *Assistant Professor*: Japanese history.
- J. RITCHIE GARRISON, Ph.D. (Pennsylvania), *Associate Professor; also Associate Director, Museum Studies*: 18th and 19th century U.S. history and material culture.
- CHRISTINE L. HEYRMAN, Ph.D. (Yale), *Professor*: American Colonial history.
- CAROL E. HOFFECKER, Ph.D. (Harvard), *Richards Professor of History*: State and local history, urban history.
- JOHN J. HURT, Ph.D. (North Carolina), *Associate Professor*: Seventeenth- and eighteenth-century France.
- PETER R. KOLCHIN, Ph.D. (Johns Hopkins), *Henry Clay Reed Professor*: Nineteenth-century U.S. history, Southern history, slavery.
- WUNYABARI MALOBA, O.P.W., Ph.D. (Stanford), *Associate Professor; also, Coordinator, African Studies Program*: African history.
- CATHY MATSON, Ph.D. (Columbia), *Associate Professor*: American Colonial history.
- RUDI MATTHEE, Ph.D. (California, Los Angeles), *Associate Professor*: Middle Eastern history.
- GARY MAY, Ph.D. (California, Los Angeles), *Professor*: U.S. diplomatic relations, Chinese-American relations.
- MARK W. McLEOD, Ph.D. (California, Los Angeles), *Associate Professor*: World history, Modern East and Southeast Asia.
- DONALD H. MEYER, Ph.D. (California, Berkeley), *Professor*: American intellectual history.
- ARWEN MOHUN, Ph.D. (Case Western), *Associate Professor*: History of technology.
- JOHN PATRICK MONTANO, Ph.D. (Harvard), *Assistant Professor*: Tudor-Stuart England, early English politics.
- JOTHAM PARSONS, Ph.D. (Johns Hopkins), *Assistant Professor*: Early modern France, world history.
- DAVID PONG, Ph.D. (London), *Professor; also Coordinator, East Asian Studies Program*: Modern China, modern East Asia, Chinese institutional history.
- GLENN PORTER, Ph.D. (Johns Hopkins), *Associate Professor; also Director, Hagley Museum and Library*: Business history.

WILLIAM PULLIAM, Ph.D. (Illinois), *Associate Professor*; also *Coordinator, Social Studies Education Program*: History of curriculum development, European history.

DAVID R. SHEARER, Ph.D. (Pennsylvania), *Associate Professor*; also *Coordinator, University of Delaware - Hagley Program*: European technology, Soviet history.

STEVEN E. SIDEBOTHAM, Ph.D. (Michigan), *Professor*: Greek and Roman history, classical archaeology.

BRYANT F. TOLLES, JR., Ph.D. (Boston), *Associate Professor*; also *Director, Museum Studies and Interim Chair, Art Conservation*; also *Professor, Art History*: 19th century U.S. history.

WILLIAM H. WILLIAMS, Ph.D. (Delaware), *Professor*; also *Southern Delaware Coordinator, Master of Arts in Liberal Studies Program*: Early American social history.

RAYMOND B. WOLTERS, Ph.D. (California, Berkeley), *Thomas Muncy Keith Professor*: Twentieth-century U.S., race relations.

Joint Appointments

Vice President for Student Life: ROLAND M. SMITH.

Art History: BERNARD L. HERMAN.

Black American Studies: HOWARD B. JOHNSON.

Criminal Justice: ERIC W. RISE.

Individual and Family Studies: TAMARA K. HAREVEN.

Liberal Studies Program Advisory Committee

RAYMOND A. CALLAHAN, Ph.D. (Harvard), *Program Director*; also *Associate Dean for Outreach, College of Arts and Science and Professor of History*.

D. HEYWARD BROCK, Ph.D. (Kansas), *Senior Associate Dean, College of Arts and Science*; also *Professor, English*.

MARTHA L. CAROTHERS, M.F.A. (Pennsylvania State University), *Professor and Chair, Art*: Visual communications.

HOWARD B. JOHNSON, Ph.D. (Oxford), *Professor, Black American Studies*.

KAREN ROSENBERG, Ph.D. (Michigan), *Associate Professor, Anthropology*; also *Coordinator, MALS Program*.

DAVID SMITH, Ph.D. (Boston University), *Professor, Biological Sciences*.

WILLIAM H. WILLIAMS, Ph.D. (Delaware), *Professor, History*.

Linguistics

WILLIAM J. FRAWLEY, Ph.D. (Northwestern), *Professor and Chair*; also *Professor, English*: Semantics, psycholinguistics, lexicography.

LOUIS A. ARENA, Ph.D. (Georgetown), *Associate Professor*; also *Associate Professor, English*: Applied linguistics, ESL, composition, Japanese.

CYNTHIA A. BROWN, Ph.D. (McGill), *Assistant Professor*: Phonology, language acquisition, speech perception.

PETER COLE, Ph.D. (Illinois), *Professor*: Syntax, semantics, Quecha, Heber, Chinese.

GABRIELLA HERMON, Ph.D. (Illinois), *Associate Professor*; also *Associate Professor, Education*: Syntax, language acquisition, bilingualism.

WILLIAM J. IDSARDI, Ph.D. (M.I.T.), *Associate Professor and Director, Graduate Studies in Linguistics*: Phonology, phonetics, morphology.

COLIN PHILLIPS, Ph.D. (M.I.T.), *Assistant Professor*: Syntax, language processing and acquisition, neurolinguistics.

NANCY LEE SCHWEDA-NICHOLSON, Ph.D. (Georgetown), *Professor*: Interpretation, bilingualism, French.

SATOSHI TOMIOKA, Ph.D. (Massachusetts), *Assistant Professor*: Semantics, syntax, East Asian linguistics.

IRENE B. VOGEL, Ph.D. (Stanford), *Associate Professor*: Phonology, morphology, Romance languages.

Joint and Adjunct Appointments

Center for Applied Science and Engineering: H. TIMOTHY BUNNELL, BETH A. MINEO.

Computer and Information Sciences: M. SANDRA CARBERRY, DANIEL L. CHESTER, KATHERINE MCCOY, K. VIJAYASHANKAR.

Education: ROBERTA M. GOLINKOFF, LUDWIG MOSBERG, RICHARD L. VENEZKY.

English: MARK E. AMSLER, W. BRUCE FINNIE.

Psychology: BRIAN P. ACKERMAN, BARBARA LANDAU.

Adjunct Faculty: CHERYL SMITH, Ph.D.

Mathematical Sciences

L. PAMELA COOK-IOANNIDIS, Ph.D. (Cornell), *Professor and Chair*: Applied mathematics, perturbation theory and transonic flow.

DAVID HALLENBECK, Ph.D. (SUNY, Albany), *Professor and Associate Chair*: Function theory.

THOMAS S. ANGELL, Ph.D. (Michigan), *Professor*: Optimal control theory, differential and integral equations.

DAVID P. BELLAMY, Ph.D. (Michigan State), *Professor*: Topology.

JOHN G. BERGMAN, Ph.D. (Illinois), *Associate Professor*: Functional analysis and probability.

LORA BILLINGS, Ph.D. (University of Colorado-Boulder), *Assistant Professor*: Applied mathematics and dynamical systems.

RICHARD BRAUN, Ph.D. (Northwestern), *Associate Professor*: Perturbation, computational methods.

EDUARDO BRIETZKE, Ph.D. (IMPA, Brazil), *Assistant Professor*: Partial differential equations, applied mathematics.

MICHAEL A. BROOK, M.S. (Northeastern Illinois), *Preparatory Math Educator*.

JINFA CAI, Ph.D. (Pittsburgh), *Assistant Professor*: Mathematical Education.

ANTONIO CIRO, M.S. (Drexel), *Preparatory Math Educator*.

DAVID L. COLTON, D.Sc. (Edinburgh), *Unidel Professor*: Scattering theory and inverse problems.

RICHARD J. CROUSE, Ph.D. (Delaware), *Associate Professor*: Mathematics education.

BETTYANN DALEY, M.S. (Vermont), *Manager, Preparatory Math Program*.

MARGARET DONLAN, M.S. (Toledo), *Preparatory Math Educator*.

CHRISTINE EBERT, Ph.D. (Delaware), *Preparatory Math Educator*.

GARY L. EBERT, Ph.D. (Wisconsin), *Professor*: Combinatorics.

DAVID A. EDWARDS, Ph.D. (Cal Tech), *Assistant Professor*: Asymptotics and perturbation theory.

PAUL P. EGGERMONT, Ph.D. (SUNY, Buffalo), *Associate Professor*; also *Associate Professor, Computer and Information Sciences*: Numerical analysis, integral equations and image reconstruction.

ROBERT P. GILBERT, Ph.D. (Carnegie-Mellon), *Unidel Professor*; also *Unidel Professor, College of Marine Studies, and Unidel Professor, Computer and Information Sciences*: Integral and differential equations and function theory.

GEORGE C. HSIAO, Ph.D. (Carnegie-Mellon), *Professor*: Differential and integral equations, perturbation theory and fluid dynamics.

JUDY A. KENNEDY, Ph.D. (Auburn), *Professor*: Topology, dynamical systems.

VINCENT N. LaRICCIA, Ph.D. (Texas A&M), *Associate Professor*: Mathematical statistics.

FELIX LAZEBNIK, Ph.D. (Pennsylvania), *Professor*: Combinatorics, graph and number theory.

YUK J. LEUNG, Ph.D. (Michigan), *Associate Professor*: Function theory.

WENBO LI, Ph.D. (Wisconsin), *Associate Professor*: Probability theory, stochastic processes, statistics.

ALBERT E. LIVINGSTON, Ph.D. (Rutgers), *Professor*: Function theory.

WALTER K. MALLORY, Ph.D. (Rutgers), *Assistant Professor*: Mathematical logic.

DAVID M. MASON, Ph.D. (Washington), *Professor*: Probability and statistics.

PETER B. MONK, Ph.D. (Rutgers), *Professor; also Professor, Computer and Information Sciences: Numerical analysis.*

CHRISTOPHER MOURON, Ph.D. (Texas Tech University), *Assistant Professor: Topology, continuum theory, and dynamical systems.*

PATRICK F. MWERINDE, Ph.D. (Columbia), *Preparatory Math Educator.*

M. ZUHAIR NASHED, Ph.D. (Michigan), *Professor; also Professor, Electrical Engineering: Functional analysis, optimization, integral equations, and numerical analysis.*

DAVID O. OLAGUNJU, Ph.D. (Northwestern), *Associate Professor: Applied mathematics.*

PETR PLECHAC, Ph.D. (Charles University, Prague), *Assistant Professor: Numerical analysis.*

GERALDINE PRANGE, M.S. (St. Louis), *Preparatory Math Educator.*

GEORGIA B. PYRROS, M.S. (McMaster, Canada), *Instructor: Business calculus.*

RAKESH, Ph.D. (Cornell), *Associate Professor: Partial differential equations.*

LIDIA REJTO, Ph.D. (E. Lorand University), *Associate Professor: Probability and statistics.*

DAVID P. ROSELLE, Ph.D. (Duke), *Professor and President of the University: Combinatorics.*

LILLIAN RUSSELL, M.S. (Delaware), *Instructor: Statistics.*

RENATE SCHEIDLER, Ph.D. (Manitoba, Canada), *Associate Professor: Cryptography.*

GILBERTO SCHLEINIGER, Ph.D. (California, Los Angeles), *Associate Professor: Applied mathematics, fluid dynamics, scientific computing.*

ANTHONY SERAPHIN, M.S. (Delaware), *Preparatory Math Educator.*

CLIFFORD W. SLOYER, Ph.D. (Lehigh), *Professor: Topology and mathematics education.*

ROBERT M. STARK, Ph.D. (Delaware), *Professor; also Professor, Civil and Environmental Engineering: Applied probability, operations research, and civil engineering systems.*

RICHARD J. WEINACHT, Ph.D. (Maryland), *Professor: Partial differential equations.*

RONALD H. WENGER, Ph.D. (Michigan State), *Associate Professor: Algebra and mathematics education.*

QING XIANG, Ph.D. (Ohio State), *Assistant Professor: Combinatorics.*

SHANGYOU ZHANG, Ph.D. (Penn State), *Associate Professor: Numerical analysis and scientific computation.*

Joint and Adjunct Appointments

Computer and Information Sciences: BOBBY F. CAVINESS, B. DAVID SAUNDERS.

Education: MORRIS W. BROOKS, WILLIAM B. MOODY.

Educational Technology: RICHARD B. SACHER.

Mathematics and Science Education Resource Center: KATHLEEN A. HOLLOWELL.

Mechanical Engineering: LEONARD W. SCHWARTZ.

Military Science

PAUL A. PUSECKER, III, M.S. (Penn State), *Lieutenant Colonel, United States Army; Professor and Chair.*

JOHN CASPER, B.A. (West Virginia), *Captain, United States Army; Operations Officer and Instructor.*

SARAH CHAPMAN, *Staff Sergeant, United States Army; Supply Supervisor.*

RONALD FLETCHER, *Master Sergeant, United States Army, Instructor.*

CHAD LUEBBERT, B.A. (Missouri), *Captain, United States Army; Enrollment and Scholarship Officer; also Instructor.*

JOSEPH MURPHY, B.S. (Wilmington College), *Major, United States Army National Guard, Executive Officer and Instructor.*

DAVID NICHOLS, *Sergeant First Class, United States Army; Instructor.*

NAOMI B. SWIFT, *Staff Sergeant, United States Army, Personnel Administrative Supervisor.*

PAUL YAGER, B.A. (Sonoma State), *Captain, United States Army; Instructor.*

Museum Studies

BRYANT F. TOLLES, JR., Ph.D. (Boston University), *Director and Associate Professor; also Associate Professor, History, Art History and Interim Chair, Art Conservation.*

J. RITCHIE GARRISON, Ph.D. (Pennsylvania), *Associate Director; also Associate Professor, History and Associate Professor, Winterthur Program in Early American Culture.*

HILTON E. BROWN, M.F.A. (Art Institute of Chicago), *Professor; also Harriet T. Bailey Professor of Art, Art Conservation, and Art History.*

CHANDRA L. REEDY, Ph.D. (California, Los Angeles), *Associate Professor; also Associate Professor of Art Conservation and Associate Professor, Urban Affairs and Public Policy.*

Music

DAVID HERMAN, D.M.A. (Kansas), *Professor and Chair: Organ, church music, and music theory.*

MICHAEL A. ARENSON, Ph.D. (Ohio State), *Professor and Associate Chair: Music theory and computer-based instruction.*

JAMES ANCONA, M.M. (Indiana), *Assistant Director, Blue Hen Marching Band: Percussion.*

ELAINE BRENCHLEY, M.A. (New York University), *Administrator for Resources and Public Programs: Music literature.*

CYNTHIA L. CARR, M.M. (Florida State), *Associate Professor: Horn.*

CHARLES CLARK, JR., B.A. (Wake Forest), *Audio Engineer.*

JON A. CONRAD, Ph.D. (Indiana), *Associate Professor: Music theory, vocal literature.*

W. ANDREW COTTLE, D.A. (Northern Colorado), *Associate Professor: Music appreciation.*

MARIE CHRISTINE DELBEAU, M.M. (North Texas State), *Associate Professor: Piano.*

MELANIE K. DeMENT, D.M.A. (North Texas State), *Associate Professor: Voice.*

RICHARD PATRICK EVANS, D.M. (Florida State), *Assistant Professor: Voice and opera workshop.*

J. MICHAEL FOSTER, M.A. (Virginia), *Music Resources Supervisor.*

EILEEN GRYCKY, M.M. (New England Conservatory), *Assistant Professor: Flute.*

ALAN D. HAMANT, M.M. (Kansas), *Associate Professor: Trumpet.*

ANGELA HANNAGAN, B.M. (Delaware), *Director, Community Music School.*

DONALD J. HILDEBRANDT, D.M. (Indiana), *Professor: Low brass.*

ROBERT C. HOGENSON, Ph.D. (Michigan State), *Associate Professor: Music theory and composition.*

PETER J. MCCARTHY, Ph.D. (Catholic University), *Associate Professor: Bibliography.*

RUSSELL E. MURRAY, Ph.D. (North Texas), *Associate Professor: Music history.*

DAVID L. MYFORD, M.F.A. (University of Georgia), *Assistant Professor: Violin.*

CLAIRE M. NANIS, M.A. (Columbia), *Associate Professor: Music education.*

JULIE H. NISHIMURA, B.M. (New England Conservatory), *Faculty Accompanist.*

LARRY W. PETERSON, Ph.D. (North Carolina), *Professor: Music history.*

HARVEY J. PRICE, M.M. (Temple University), *Assistant Professor: Percussion, jazz.*

MARIE H. ROBINSON, D.M. (Florida State), *Associate Professor: Voice and opera workshop.*

HEIDI SARVER, M.M. (Massachusetts, Amherst), *Assistant Professor; also Director, Blue Hen Marching Band.*

LLOYD C. SHORTER, B.F.A. (Ithaca), *Administrator for Recruiting, Admissions, and Scholarships: Oboe.*

MICHAEL STEINBERG, M.S. (Juilliard), *Professor: Piano.*

ROBERT J. STRECKFUSS, D.M.A. (Catholic University), *Professor: Music education and wind ensemble.*

CHRISTIAAN TAGGART, B.M. (Philadelphia College of Performing Arts), *Instructor*: Guitar.

HEKUN WU, D.M.A. (Minnesota), *Assistant Professor*: Orchestra, cello.

MICHAEL A. ZINN, Ph.D. (Michigan State), *Professor*: Music theory and composition.

Joint Appointments

Education: FRED T. HOFSTETTER.

Neuroscience

SEYMOUR LEVINE, Ph.D. (New York), *Director, Neuroscience Program*; also *Research Professor, Psychology*: Developmental psychology, neuroendocrinology.

STUART A. BINDER-MACLEOD, Ph.D. (Medical College of Virginia), *Professor and Chair, Physical Therapy*: Neurophysiology—muscle physiology, motor unit activity.

KENNETH A. CAMPBELL, Ph.D. (Toronto), *Assistant Professor, Psychology*: Neurophysiology; learning and modulation of sensory processing.

GEORGE CICALA, Ph.D. (Princeton), *Professor, Psychology*: Learning—acquisitions, effects of opiates and NMDA antagonists.

MELINDA DUNCAN, Ph.D. (Rutgers), *Assistant Professor, Biological Sciences*: Molecular mechanisms of vertebrate eye development.

JOHN G. ELIAS, Ph.D. (Yale), *Professor, Electrical and Computer Engineering*: VLSI Artificial neural systems, robotics, evolutionary computational methods.

ALLEN M. GRANDA, Ph.D. (Brown), *Professor, Biological Sciences*: Neurophysiology—vision, retinal processes.

JAMES E. HOFFMAN, Ph.D. (Illinois), *Professor, Psychology*: Visual attention and event-related brain potentials.

GEORGE R. MOLLOY, Ph.D. (Virginia Polytechnic Institute and State University), *Associate Professor, Biological Sciences*: Gene regulation of neural and glial specific genes.

DAVID P.M. NORTHMORE, D.Phil. (Sussex), *Professor, Psychology*: Neurophysiology of vision, neural regeneration and reorganization, artificial neural systems.

CARLOS R. PLATA-SALAMAN, M.D. (Guadalajara, Mexico), D.Sc. (Kyushu, Japan), *Professor, Biological Sciences*: Neurophysiology, neuroimmunology and behavioral system-nervous system interactions, feeding and drinking.

JEFFREY B. ROSEN, Ph.D. (Wayne State), *Assistant Professor, Psychology*: Neurobiology of emotional behaviors, molecular and pharmacological substrates of fear and anxiety.

EVELYN SATINOFF, Ph.D. (Pennsylvania), *Professor and Chair, Psychology*: Neural integration of circadian rhythms, thermoregulation and fever, sleep/waking, aging.

JOHN P. SCHOLZ, Ph.D. (Connecticut), *Associate Professor, Physical Therapy*: Electromyography—motor coordination and interlimb reflexes.

THOMAS R. SCOTT, Ph.D. (Duke), *Professor, Psychology*: Neurophysiology—neural coding of taste, feeding.

JEROME SIEGEL, Ph.D. (Ohio State), *Professor, Psychology*: Neurophysiology—arousal, behavioral inhibition, neuromodulation.

L. CARLISLE SKEEN, Ph.D. (Florida State), *Associate Professor, Psychology*: Neuroanatomy—olfaction and neuroplasticity.

MILTON H. STETSON, Ph.D. (Washington), *Professor, Biological Sciences*: Neuroendocrinology, circadian physiology, pineal endocrinology.

MARVIN ZUCKERMAN, Ph.D. (New York University), *Professor, Psychology*: Psychobiology of personality and psychopathology.

Philosophy

FREDERICK ADAMS, Ph.D. (Wisconsin), *Professor and Chair*: Epistemology, cognition science, philosophy of mind.

CHRISTOPHER BOORSE, Ph.D. (Princeton), *Associate Professor*: Philosophy of medicine, ethics.

ROBERT F. BROWN, Ph.D. (Columbia), *Professor*: Philosophy of religion, 19th century philosophy.

FRANK B. DILLEY, Ph.D. (Columbia), *Professor*: Philosophy of religion, philosophy of mind.

PAUL T. DURBIN, Ph.D. (Aquinas Institute of Philosophy), *Professor*; also *Professor, Urban Affairs and Public Policy*: Philosophy of technology, environmental ethics.

ALAN D. FOX, Ph.D. (Temple), *Associate Professor*: Asian and comparative philosophy, comparative religion.

HARRISON B. HALL, Ph.D. (Northwestern), *Professor*: Logic, philosophy of science.

DAVID W. HASLETT, Ph.D. (Minnesota), *Professor*: Ethics, social and political philosophy, philosophy of law.

ERIC HOFFMAN, Ph.D., J.D. (Pennsylvania), *Assistant Professor*; also *Executive Director, American Philosophical Association*: Social and political philosophy, ethics, philosophy of law.

JEFFREY J. JORDAN, Ph.D. (Purdue), *Associate Professor*: Philosophy of religion.

NANCY McCAGNEY, Ph.D. (California, Santa Barbara), *Assistant Professor*: Buddhism, philosophies of India, cross-cultural philosophy, environmental ethics.

LUCIA M. PALMER, Ph.D. (Pisa), *Professor*: Ancient and modern philosophy, ethics.

JOEL PUST, Ph.D. (University of Arizona), *Assistant Professor*: Philosophy of mind, epistemology, cognitive science.

MICHAEL C. REA, Ph.D. (Notre Dame), *Assistant Professor*: Metaphysics, ancient philosophy, epistemology.

KATHERIN A. ROGERS, Ph.D. (Notre Dame), *Assistant Professor*: Medieval philosophy, philosophy of religion.

DAVID B. SILVER, Ph.D. (Arizona), *Assistant Professor*: Ethics, Jewish philosophy, metaethics.

DOUGLAS F. STALKER, Ph.D. (North Carolina), *Associate Professor*: Critical thinking, aesthetics.

Physical Therapy

STUART BINDER-MACLEOD, Ph.D., P.T. (Medical College of Virginia), *Professor and Chair*: Electrical stimulation parameters on muscle performance.

STACIE LARKIN, B.S., P.T. (Boston University), *Academic Coordinator of Clinical Education*.

JOHN KNARR, M.S., P.T. (Delaware), *Director, Physical Therapy Clinic*.

JOSEPH A. LUCCA, Ph.D., P.T. (Delaware), *Associate Professor*: Health care delivery systems for the elderly.

IRENE S. McCLAY, Ph.D., P.T. (Penn State), *Associate Professor*: Biomechanical analysis of running injuries.

PAUL F. METTLER, Ed.D., P.T. (Northeastern), *Associate Professor*: Higher education administration.

JOHN SCHOLZ, Ph.D., P.T. (Connecticut), *Associate Professor*: Examination of motor control using motion analysis.

LAURA SCHMITT, M.P.T. (Beaver College), *Physical Therapist, Physical Therapy Clinic*.

KENNETH W. SEAMAN, M.A., P.T. (Delaware), *Academic Coordinator of Clinical Education*.

LYNN SNYDER-MACKLER, Sc.D., P.T. (Boston University), *Associate Professor*: Examination of rehabilitation protocols following ACL repair.

Physics and Astronomy

HENRY R. GLYDE, D.Phil. (Oxford), *Professor and Chair*: Condensed matter theory, neutron studies of condensed matter, liquid helium.

MAURICE V. BARNHILL III, Ph.D. (Stanford), *Professor*: Elementary particle theory.

DENNIS C. COLLINS, B.A. (Delaware), *Assistant to the Chair*.

WILLIAM B. DANIELS, Ph.D. (Case Western Reserve), *Unidel Professor*: Condensed matter physics, high-pressure laser light scattering.

CHENG-MING FOU, Ph.D. (Pennsylvania), *Professor*: Nuclear physics and accelerator-based atomic physics.

- GEORGE HADJIPANAYIS, Ph.D. (Manitoba), *Professor*: Experimental condensed matter physics, magnetism, nanocrystalline materials.
- ARTHUR HALPRIN, Ph.D. (Pennsylvania), *Professor*: Elementary particle theory.
- DAVID R. JOHNSON, M.S. (Delaware), *Undergraduate Laboratory Coordinator*.
- EDWARD H. KERNER, Ph.D. (Cornell), *Professor*: Theoretical physics, relativity and nonlinear systems.
- CHUNG N. LEUNG, Ph.D. (Minnesota), *Associate Professor*: Elementary particle theory.
- JAMES MacDONALD, Ph.D. (Cambridge), *Associate Professor*: Astronomy and astrophysics, white dwarfs, cataclysmic variables.
- JOHN D. MORGAN, Ph.D. (California, Berkeley), *Associate Professor*: Theoretical atomic and molecular physics.
- NORBERT MULDER, Ph.D. (Delaware), *Assistant Professor*: Condensed matter, low temperatures.
- DAVID G. ONN, Ph.D. (Duke), *Professor*: Condensed matter physics, thermal properties of advanced materials.
- MARK SHARNOFF, Ph.D. (Harvard), *Professor*: Biophysics, holography of biosystems.
- HARRY L. SHIPMAN, Ph.D. (California Institute of Technology), *Annie Jump Cannon Professor*: Astronomy and astrophysics, white dwarfs.
- KRZYSZTOF SZALEWICZ, Ph.D. (Warsaw), *Professor*: Theoretical atomic and molecular physics.
- KARL UNRUH, Ph.D. (Johns Hopkins), *Professor*: Condensed matter, finite size effects, thin films.
- BARRY C. WALKER, Ph.D. (SUNY, Stony Brook), *Assistant Professor*: Experimental atomic, molecular, and optical physics.
- GEORGE H. WATSON, Ph.D. (Delaware), *Professor*: Laser spectroscopy of condensed matter, photonic band structure.
- BARBARA A. WILLIAMS, Ph.D. (Maryland), *Associate Professor*: Astronomy and astrophysics, radio astronomy and groups of galaxies.
- S.B. WOO, Ph.D. (Washington), *Professor*: Atomic and molecular physics.
- JOHN Q. XIAO, Ph.D. (Johns Hopkins), *Assistant Professor*: Experimental condensed matter, transport, magnetism, and superconductivity in artificial nanostructures.

Joint Appointments

Materials Science and Engineering: ISMAT SHAH.

Bartol Research Institute

- NORMAN F. NESS, Ph.D. (M.I.T.), *Professor and President*: Space physics, planetary and interplanetary magnetism.
- STEPHEN M. BARR, Ph.D. (Princeton), *Associate Professor*: Elementary particle theory.
- JOHN W. BIEBER, Ph.D. (Maryland), *Professor*: Cosmic ray physics.
- SIU-TAT CHUI, Ph.D. (Princeton), *Professor Institute*: Condensed matter theory, low dimensional and amorphous materials.
- PAUL A. EVENSON, Ph.D. (Chicago), *Professor*: Space physics, solar and cosmic ray studies.
- THOMAS K. GAISSER, Ph.D. (Brown), *Professor*: Elementary particle theory, high energy astrophysics.
- WILLIAM H. MATTHAEUS, Ph.D. (William and Mary), *Professor*: Space physics, plasma physics, turbulence theory, and computational physics.
- DERMOTT J. MULLAN, Ph.D. (Maryland), *Professor*: Astrophysics, solar and stellar physics.
- STANLEY P. OWOCKI, Ph.D. (Colorado), *Associate Professor*: Astrophysics, stellar winds.
- LUCIO PICCIRILLO, Dott. (Rome), *Assistant Professor*: Millimeter astronomy and cosmology, low-temperature techniques.
- STUART PITTEL, Ph.D. (Minnesota), *Professor*: Theoretical nuclear physics, nuclear astrophysics.
- DAVID SECKEL, Ph.D. (Washington), *Associate Professor*: Cosmology, particle astrophysics.

- QAISAR SHAFI, Ph.D. (Imperial College), *Professor*: Elementary particle theory, cosmology.
- TODOR STANEV, Ph.D. (Sofia), *Professor*: Particle astrophysics, cosmic ray physics.
- GARY ZANK, Ph.D. (Natal), *Associate Professor*: Space physics, plasma physics, astrophysics.

Political Science and International Relations

- MARK W. HUDDLESTON, Ph.D. (Wisconsin), *Professor and Chair*; also *Professor, Urban Affairs and Public Policy*: Public administration.
- IANET B. JOHNSON, Ph.D. (Cornell), *Associate Professor and Associate Chair*; also *Associate Professor, Urban Affairs and Public Policy*: Environmental policy, state and local government, research methods.
- GRETCHEN BAUER, Ph.D. (Wisconsin), *Assistant Professor*: African and comparative studies.
- YAROSLAV BILINSKY, Ph.D. (Princeton), *Professor*: Comparative politics.
- RICHARD KURT BURCH, Ph.D. (Minnesota), *Associate Professor*: International relations.
- KENNETH J. CAMPBELL, Ph.D. (Temple), *Assistant Professor*: International relations.
- JULIO F. CARRION, Ph.D. (Pittsburgh), *Assistant Professor*: Latin American politics.
- YI-CHUN CHANG, Ph.D. (Northwestern), *Associate Professor*: Asian politics.
- SUE DAVIS, Ph.D. (California, Santa Barbara), *Professor*: Constitutional law and political theory.
- THEODORE J. DAVIS, Ph.D. (Florida State), *Associate Professor*: Political behavior and public policy.
- JOHN T. DEINER, Ph.D. (Rutgers), *Associate Professor*: Latin American politics.
- ROBERT A. DENEMARK, Ph.D. (Minnesota), *Associate Professor*: International relations.
- LESLIE F. GOLDSTEIN, Ph.D. (Cornell), *Unidel Professor*: Constitutional law.
- DANIEL M. GREEN, Ph.D. (Indiana), *Assistant Professor*: International development and comparative public administration.
- DAVID E. INGERSOLL, Ph.D. (Claremont), *Professor*: Political philosophy.
- JAMES MAGEE, Ph.D. (Virginia), *Professor*: Public law.
- WILLIAM H. MEYER, Ph.D. (Iowa), *Associate Professor*: International relations.
- MARK J. MILLER, Ph.D. (Wisconsin), *Professor*: Comparative politics.
- ZELMA MOSLEY, Ph.D. (Wisconsin, Milwaukee), *Assistant Professor*: American politics and Black politics.
- JAMES K. OLIVER, Ph.D. (American), *Unidel Professor and Director, International Relations Program*; also *Professor, Marine Studies*: International relations, American foreign and defense policy.
- MARIAN L. PALLEY, Ph.D. (New York University), *Professor*: Public policy analysis, urban politics and administration.
- JOSEPH A. PIKA, Ph.D. (Wisconsin), *Professor*: American politics and public administration.
- HENRY T. REYNOLDS, Ph.D. (North Carolina), *Professor*; also *Professor, Urban Affairs and Public Policy*: American government, research methods, methodology.
- JERROLD E. SCHNEIDER, Ph.D. (New York University), *Associate Professor*: American politics and political economy.
- JAMES R. SOLES, Ph.D. (Virginia), *Distinguished Alumni Professor*: American politics.
- RICHARD T. SYLVES, Ph.D. (Illinois), *Professor*; also *Professor, College of Marine Studies, and Professor, Urban Affairs and Public Policy*: Public administration.

Joint and Adjunct Appointments

- Accounting: SHELDON D. POLLACK.
- Communication: RALPH BEGLEITER.
- Criminal Justice: KENNETH HAAS.

Economics: KENNETH J. KOFORD

Education: JAN BLITS

Marine Studies: BILIANA CICIN-SAIN, ROBERT W. KNECHT, GERARD J. MANGONE

Urban Affairs and Public Policy: DEBORAH AUGER, KATHRYN G. DENHARDT, ROBERT B. DENHARDT, JEROME R. LEWIS, DANIEL RICH, JEFFREY A. RAFFEL, PAUL SOLANO, ROBERT WARREN

Psychology

EVELYN SATINOFF, Ph.D. (New York), *Professor and Chair:* Neural integration of sleep, circadian rhythms, thermoregulation; motivated behavior, aging

BRIAN P. ACKERMAN, Ph.D. (SUNY, Stony Brook), *Professor; also Professor; Linguistics:* Cognitive development, emotional development, developmental risk

KENNETH A. CAMPBELL, Ph.D. (Toronto), *Assistant Professor:* Neural mechanisms of memory

GEORGE A. CICALA, Ph.D. (Princeton), *Professor:* Avoidance conditioning, strategies in learning

LAWRENCE H. COHEN, Ph.D. (Florida State), *Professor:* Stressful life events, coping, personality

RITA Y. COHEN, Ph.D. (Florida State), *Associate Professor; also Director, Psychological Services:* Health psychology

THOMAS M. DILORENZO, Ph.D. (West Virginia), *Professor; also Dean, College of Arts and Science:* Health psychology, addictive behaviors, tobacco use, exercise and mood

MARY DOZIER, Ph.D. (Duke), *Associate Professor:* Attachment, schizophrenia, high risk infants

ROBERT W. EISENBERGER, Ph.D. (California, Riverside), *Professor:* Learning and motivation, industrial/organizational psychology

SAMUEL L. GAERTNER, Ph.D. (City University of New York), *Professor:* Group relations, group mergers in business and laboratory settings

BARBARA GIZA, Ph.D. (University of Delaware), *Assistant Professor:* Neural and behavioral aspects of taste and feeding

JAMES E. HOFFMAN, Ph.D. (Illinois), *Professor:* Attention, information processing, perception, and event-related brain potentials

JULIE HUBBARD, Ph.D. (Duke), *Assistant Professor:* Peer relations

HELENE INTRAUB, Ph.D. (Brandeis), *Professor:* Cognitive processes, attention, perception and encoding of visual scenes

BARBARA S. IZARD, M.Mus. (Syracuse), *Instructor:* Human emotions

CARROLL E. IZARD, Ph.D. (Syracuse), *Unidel Professor:* Human emotions in relation to personality development, psychopathology and psychotherapy—especially in infants and mother-infant relationships

JAMES M. JONES, Ph.D. (Yale), *Professor:* Social psychology and culture; humor, sports, race, and racism

R. ROGERS KOBAC, Ph.D. (Virginia), *Associate Professor:* Parent-teen relations and family relations

D. MICHAEL KUHLMAN, Ph.D. (California, Santa Barbara), *Associate Professor:* Individual differences in the social motives of cooperation, individualism, and competition

BARBARA LANDAU, Ph.D. (Pennsylvania), *Professor:* Language, language development, spatial knowledge, object perception

SEYMOUR LEVINE, Ph.D. (New York University), *Research Professor; also Director, Neuroscience Program:* Developmental psychobiology, neuroendocrinology

FREDERICK A. MASTERTSON, Ph.D. (Princeton), *Professor:* Animal learning, artificial intelligence, computer systems, mathematical psychology

JOHN P. McLAUGHLIN, Ph.D. (New York University), *Associate Professor:* Strategies in learning, semantic organization, retention, aesthetics

DAVID P.M. NORTHMORE, Ph.D. (Sussex, England), *Professor:* Neurophysiology of vision and visual development

EUN RHEE, Ph.D. (New York University), *Assistant Professor:* Cross-cultural, racial and ethnic identities, social development

JEFFERY ROSEN, Ph.D. (Wayne State), *Assistant Professor:* Neurobiology of emotional behaviors, molecular and pharmacological substrates of fear and anxiety

THOMAS R. SCOTT, Ph.D. (Duke), *Professor:* Neurophysiology of feeding and hedonic mechanisms of taste

JEROME SIEGEL, Ph.D. (Ohio State), *Professor:* Neural structures involved in inhibition and arousal

ROBERT F. SIMONS, Ph.D. (Wisconsin), *Professor:* Human psychophysiology, schizophrenia, information processing

L. CARLISLE SKEEN, Ph.D. (Florida State), *Associate Professor:* Developmental and comparative neuroanatomy

JOHN W. WHALEN, Ph.D. (Johns Hopkins University), *Assistant Professor:* Numerical cognition, cognitive neuropsychology, neural network simulations, functional brain imaging

MARVIN ZUCKERMAN, Ph.D. (New York University), *Professor:* Sensation seeking, personality assessment, human sexuality, personality correlates of drug use

Joint and Adjunct Appointments

Communication: BETTY J. HASLETT

Counseling and Student Development: RICHARD S. SHARF

Criminal Justice: VALERIE P. HANS

Education: RALPH P. FERRETTI, JOSEPH I. GLUTTING, ROBERTA GOLINKOFF, DAVID KAPLAN, FRANK B. MURRAY

Institutional Research and Planning: KAREN W. BAUER

Individual and Family Studies: KATHERINE CONWAY-TURNER, MICHAEL FERRARI

Nursing: CHRISTINE E. JOHNSTON

Sociology and Criminal Justice

JOEL BEST, Ph.D. (California, Berkeley), *Professor and Chair:* Social problems, social deviance

JEFFREY L. DAVIDSON, Ph.D. (Michigan), *Associate Professor and Associate Chair:* Urban sociology, social welfare

CYNTHIA ROBBINS, Ph.D. (Michigan), *Professor and Associate Chair, Criminal Justice Program:* Substance abuse, deviance, social epidemiology

MARGARET L. ANDERSEN, Ph.D. (Massachusetts), *Professor; also Professor, Women's Studies:* Race relations, sex and gender, theory

RONET BACHMAN, Ph.D. (New Hampshire), *Associate Professor:* Crime and research methods

TRACY A. BACHMAN, B.A. (Delaware), *Research Associate II*

SALLY BOULD, Ph.D. (California, Berkeley), *Professor; also Professor, Individual and Family Studies:* Gerontology, family

ANNE BOWLER, Ph.D. (New School for Social Research), *Associate Professor:* Cultural theory, sex and gender

CLIFFORD A. BUTZIN, Ph.D. (California, San Diego), *Research Administrator*

GORDON J. DIRENZO, Ph.D. (Notre Dame), *Professor:* Social psychology, personality and social systems, social psychiatry

MARA DODGE, Ph.D. (Illinois), *Assistant Professor:* Prisons and corrections, historical criminology, women in the criminology system

SERGEY DOLINSKY, M.A. (Leningrad Polytechnic Institute), *Research Associate II*

KENNETH J. ECKHARDT, Ph.D. (Wisconsin), *Associate Professor:* Methods, social organization, social control

M. DAVID ERMANN, Ph.D. (Michigan), *Professor:* Corporate crime, medical, complex organizations

CHARLES E. FREEMAN, M.A. (Washington), *Research Associate II*

CHARLES GRAY, B.S. (Delaware), *Research Specialist*

ALICE M. GUETHLER, *Research Specialist*

DAVID B. GULICK, Ph.D. (Sam Houston State), *Assistant Professor:* Criminology, corrections

KENNETH C. HAAS, Ph.D. (Rutgers), *Professor:* Judicial behavior, criminal law, corrections law

VALERIE P. HANS, Ph.D. (Toronto), *Professor*: Psychology of law.
 LANA D. HARRISON, Ph.D. (Michigan), *Associate Director, Center for Drug and Alcohol Studies*.
 ELIZABETH HIGGINBOTHAM, Ph.D. (Brandeis), *Professor*: Race, gender, stratification.
 JAMES A. INCIARDI, Ph.D. (New York University), *Professor*; also *Director, Center for Drug and Alcohol Studies*: Criminology, drugs, criminal justice.
 JOHN K. KELLY, D.P.A. (New York University), *Associate Professor*: Criminal justice.
 VIVIAN L. KLAFF, Ph.D. (Wisconsin), *Associate Professor*: Demography, urban sociology.
 CARL B. KLOCKARS, Ph.D. (Pennsylvania), *Professor*: Criminal justice, police, criminology.
 LEONARDO LEDEZMA, M.A. (Delaware), *Instructor*: Research methods, statistics.
 STEVEN S. MARTIN, M.A. (Michigan), *Associate Scientist*.
 RAMIRO MARTINEZ, Ph.D. (Ohio State), *Associate Professor*: Crime, law and deviance.
 SUSAN MILLER, Ph.D. (Maryland), *Associate Professor*: Criminology, sex and gender, policing.
 ROBERTA E. MURPHY, M.A. (Delaware), *Research Associate I*.
 DRUETTA NICHOLS-JENNINGS, *Research Specialist/Phlebotomist*.
 JOANNE M. NIGG, Ph.D. (California, Los Angeles), *Professor*; also *Co-Director, Disaster Research Center*: Collective behavior, social movements, social psychology.
 DAVID OPPOLD, B.A. (Thomas Edison), *Research Specialist*.
 ANNE E. POTTIEGER, Ph.D. (Delaware), *Scientist*.
 MARY ANN POULOS, *Research Specialist*.
 JUDITH A. QUINLAN, B.S. (Delaware), *Research Specialist*.
 ERIC W. RISE, J.D., Ph.D. (Florida), *Associate Professor*: Constitutional legal history.
 ROBERT A. ROTHMAN, Ph.D. (Purdue), *Professor*: Work, complex organizations, stratification.
 CHRISTINE SAUM, M.A. (Florida), *Research Associate II*.
 FRANK R. SCARPITTI, Ph.D. (Ohio State), *Professor*: Deviant behavior, crime and delinquency.
 KATHLEEN J. TIERNEY, Ph.D. (Ohio State), *Professor*; also *Co-Director, Disaster Research Center*: Collective behavior, qualitative methods.
 PATRICIA A. TRESSELL, M.S. (Delaware), *Research Associate II*.
 GERALD M. TURKEL, Ph.D. (California, Santa Barbara), *Professor*: Social theory, social psychology.
 JUDITH L. WATSON, *Assistant to the Chair*.
 GINNY A. WIDDOES, B.A. (Delaware), *Assistant to the Director, Center for Drug and Alcohol Studies*.

Joint and Adjunct Appointments

Black American Studies: CAROLE C. MARKS.

Education: JAMES H. CROUSE.

Urban Affairs and Public Policy: ROBERT A. WILSON.

Adjunct Faculty: RICHARD S. GEBELEIN, J.D. • FREDERICK KIRCH, M.A. • CHARLES M. OBERLY III, J.D. • JOHN J. POLK, J.D. • THOMAS J. QUINN, M.A. • ANTHONY W. SALERNO, M.A.

Theatre

SANFORD L. ROBBINS, M.F.A. (Carnegie-Mellon), *Professor and Chair*: Acting, directing.
 JOANN E. BROWNING, M.F.A. (Southern Methodist), *Professor and Associate Chair*: Stage movement/dance.
 ANDREA A. BARRIER, B.A. (Wisconsin), *Associate Professor*: Costume production.
 PETER W. BRAKHAGE, *Technical Director*: Technical Production.
 RICHARD P. BROWN, Ph.D. (Tulane), *Professor*: Undergraduate acting.
 WILLIAM L. BROWNING, M.F.A. (Iowa), *Professor*: Technical Production.

JAMES H. CUNNINGHAM, M.A. (Toronto), *Associate Professor*: Undergraduate acting.
 RICK A. CUNNINGHAM, M.A. (Tulane), *Associate Professor*: Stage Management.
 CATHERINE FITZMAURICE, M.A. (Michigan), *Professor*: Undergraduate acting.
 HEINZ-UWE HAUS, Ph.D. (Humboldt), *Professor*: Acting, directing, theatre history.
 BARBARA HUGHES-LAMPROS, *Costume Manager*.
 ROBIN LU PAYNE, M.F.A. (Temple), *Associate Professor*: Technical Production.
 LESLIE REIDEL, M.F.A. (Temple), *Professor*: Acting, directing.
 EILEEN T. SMITHEIMER, B.A. (Purdue), *Associate Professor*: Technical Production.
 SUSAN R. SWEENEY, M.F.A. (Massachusetts), *Professor*: Stage speech, voice production.
 STEVE J. TAGUE, M.F.A. (Wisconsin), *Assistant Professor*: Acting, stage movement, stage speech.
 PETER T. VAGENAS, Ph.D. (Denver), *Professor*: Technical Production.
 JEWEL H. WALKER, *Professor*: Acting, directing, stage movement.

Joint and Adjunct Appointments

English: JAY L. HALIO.

Winterthur Program in Early American Culture

JAMES C. CURTIS, Ph.D. (Northwestern), *Director*; also *Professor*, *History*: History and media, material culture documentary photography.
 DAVID F. ALLMENDINGER, JR., Ph.D. (Wisconsin), *Professor*, *History*: American social history.
 ANNE BOYLAN, *Associate Professor*, *History*: Women's studies, antebellum America.
 LU ANN DE CUNZO, Ph.D. (Pennsylvania), *Associate Professor*, *Anthropology*: Archaeology and material culture.
 J. RITCHIE GARRISON, Ph.D. (Pennsylvania), *Associate Director, Museum Studies Program*; also *Associate Professor*, *History*: Colonial period, material culture.
 ANN E. GIBSON, Ph.D. (University of Delaware), *Professor and Chair*, *Art History*: Contemporary and American art, African-American art.
 CAROLE HABER, Ph.D. (Pennsylvania), *Professor and Chair*: U.S. history, social history, aging and medicine.
 BERNARD L. HERMAN, Ph.D. (Pennsylvania), *Professor*, *Art History*; also *Associate Director, Center for Historic Architecture and Design*: Folklore and folklife, material culture.
 CHRISTINE HEYRMAN, *Professor*, *History*: Colonial period.
 CAROL E. HOFFECKER, Ph.D. (Harvard), *Richards Professor of History*: State and local history, urban history.
 WILLIAM I. HOMER, Ph.D. (Harvard), *H. Rodney Sharp Professor*, *Art History*: American painting and photography.
 J. A. LEO LeMAY, Ph.D. (Pennsylvania), *Winterthur Professor*, *English*: Colonial American literature.
 CATHY MATSON, Ph.D. (Columbia), *Associate Professor*, *History*: Colonial period.
 DONALD C. MELL, Ph.D. (Pennsylvania), *Professor*, *English*.
 DONALD H. MEYER, Ph.D. (California, Berkeley), *Professor*: American intellectual history.
 DAMIE STILLMAN, Ph.D. (Columbia), *J.W. Shirley Professor of Art History*: American and European architecture and decorative arts.
 BRYANT F. TOLLES, JR. Ph.D. (Boston University), *Interim Chair*, *Art Conservation and Director, Museum Studies Program*; also *Associate Professor*, *History and Associate Professor*, *Art History*: American decorative arts.

Joint and Adjunct Appointments

Adjunct Faculty: GRETCHEN T. BUGGELN, Ph.D. • WENDY COOPER, M.A. • PAULINE EVERSMAAN, M.Phil. • DONALD L. FENNIMORE,

M.A. • PATRICIA HALFPENNY, M.A. • CHARLES F. HUMMEL, JR., M.A. • BROCK JOBE, M.A. • GARY KULIK, Ph.D. • RICH McKISTRY, M.A. • NEVILLE THOMPSON, M.S.

Women's Studies

BETH BONNIWELL HASLETT, Ph.D. (Minnesota), *Director; also Professor, Communication*: Gender and communication; leadership and organizations.

SUZANNE J. CHERRIN, Ph.D. (Delaware), *Assistant Professor*: International gender issues; sexuality and gender; breast cancer; gender and competition.

JESSICA R. SCHIFFMAN, M.A. (Delaware), *Assistant Director and Undergraduate Advisor*: Gender and violence.

KATHLEEN D. TURKEL, Ph.D. (Delaware), *Assistant Professor*: Women's health; motherhood and culture.

Additional Women's Studies Faculty

Anthropology: DONNA M. BUDANI, KAREN ROSENBERG.

Criminal Justice: VALERIE HANS, SUSAN MILLER.

Education: NANCY BRICKHOUSE.

English: ANN ARDIS, PETER FENG, BARBARA GATES, CAROL HENDERSON, SARA HOROWITZ, ALVINA QUINTANA, BONNIE SCOTT.

Foreign Languages and Literatures: JOAN BROWN, MARY DONALDSON-EVANS, LAWRENCE MARCEAU, MONICA SHAFI.

History: ANNE BOYLAN, GERALD FIGAL, CAROL HOFFECKER, WUNYABARI MALOBA.

Individual and Family Studies: KATHERINE CONWAY-TURNER, BARBARA SETTLES, JULIE WILGEN.

Mathematical Sciences: GEORGIA PYRROS.

Music: RUSSELL MURRAY.

Nursing: BETHANY HALL-LONG.

Philosophy: LUCIA PALMER.

Political Science and International Relations: GRETCHEN BAUER, LESLIE GOLDSTEIN, MARIAN PALLEY, ZELMA MOSLEY.

Sociology: MARGARET ANDERSEN, SALLY BOULD, ANNE BOWLER, GERRY TURKEL.

OTHER PROGRAMS IN THE COLLEGE OF ARTS AND SCIENCE

University Museums: University Gallery/ University of Delaware Mineralogical Museum

BELENA S. CHAPP, M.A., (Purdue), *Director, Museums*.

JANET R. BROSKE, M.A., (Delaware), *Curator, University Gallery*.

University Parallel Program

RAYMOND A. CALLAHAN, Ph.D. (Harvard), *Associate Dean for Outreach; also Professor, History*.

Wilmington Campus

HELEN EASTERLING WILLIAMS, M.S. (Towson State), *Assistant Dean, Wilmington Campus*.

JOHN D. ANDERSON, Ph.D. (Delaware), *Associate Professor of Mathematics*.

PHILIP GOLDSTEIN, Ph.D. (Temple), *Associate Professor of English*.

ALAN M. HOROWITZ, M.A. (Delaware), *Associate Professor of Sociology/Criminal Justice*.

LINDA ROMAN, M.A. (West Chester), *Administrative Academic Advisor*.

MICHAEL ROSENBERG, Ph.D. (Pennsylvania), *Associate Professor of Anthropology*.

DAVID TEAGUE, Ph.D. (Virginia), *Associate Professor of English*.

Dover Campus

KATHLEEN A. BIEKER, M.A. (Central Michigan), *Assistant Dean, Dover Campus*.

BARBARA Z. CHRISTENSEN, M.A. (Delaware), *Assistant Professor of English*.

CARLA C. MORRIS, M.S. (R.P.I.), *Assistant Professor of Mathematics*.

SHARON S. TUCKER, Ph.D. (Rutgers), *Associate Professor of Biology*.

Georgetown Campus

PATRICIA S. DOREY, B.S. (Salisbury), *Assistant Dean, Georgetown Campus*.

ANNE A. COLWELL, Ph.D. (Delaware), *Associate Professor, English*.

LAWRENCE A. CURTIS, Ph.D. (Delaware), *Professor, Biology; also Professor, Department of Biological Sciences, and Professor, Marine Studies*.

DAVID B. GULICK, Ph.D. (Sam Houston), *Assistant Professor of Criminal Justice*.

NANCY S. HALL, M.A. (Delaware), *Assistant Professor of Mathematics*.

CHARLES M. KOPAY, Ph.D. (Delaware), *Associate Professor of Chemistry*.

RONALD L. LEMONCELLI, Ph.D. (Delaware), *Assistant Professor of English*.

NANCY McCAGNEY, Ph.D. (California), *Assistant Professor of Philosophy*.

MARK W. McLEOD, Ph.D. (California, Los Angeles), *Associate Professor of History*.

RUTH S. MULFORD, M.A. (Yale), *Instructor of Music*.

HENRY R. NYCE, M.A. (Delaware), *Assistant Professor of Sociology*.

NORMAN S. PASSMORE, Ph.D. (Delaware), *Assistant Professor of Mathematics*.

WILLIAM H. WILLIAMS, Ph.D. (Delaware), *Professor of History*.

University Writing Center

CLYDE A. MONEYHUN, Ph.D., (Arizona), *Director; also Assistant Professor, English*.

GILDA T. KELSEY, M.A., (Delaware), *Assistant Director; also Instructor, English*.

COLLEGE OF BUSINESS AND ECONOMICS

Office of the Dean

KENNETH BIEDERMAN, Ph.D. (Purdue), *Interim Dean; also Professor, Finance*.

LINDA S. DUNN, Ed.D. (Delaware), *Assistant Dean*.

JOYCE L. HART, M.Ed. (Pittsburgh), *Student Services Director*.

SCOTT K. JONES, Ph.D. (Drexel), *Academic Associate Dean; also Professor, Accounting*.

TERRY M. WHITTAKER, M.A. (Minnesota), *Assistant Dean*.

Accounting and Management Information Systems

E. KENT ST. PIERRE, Ph.D. (Washington), C.P.A., *Arthur Andersen Alumni Professor and Chair*: Financial accounting.

JOSEPH A. BRADY, Ph.D. (Delaware), *Instructor*.

DALE BUCKMASTER, Ph.D. (Penn State), C.P.A., *Professor*: Financial accounting.

ARAYA DEBESSAY, Ph.D. (Syracuse), C.P.A., C.M.A., C.I.A., *Professor*: Auditing and financial accounting.

LORI R. FULLER, Ph.D. (Arizona State), C.P.A., *Assistant Professor*: Auditing.

JOHN H. GIL, M.B.A. (Delaware), C.P.A., C.M.A., *Instructor*: Financial and managerial accounting.

JACKSON F. GILLESPIE, Ph.D. (Virginia Tech), C.M.A., *Associate Professor*: Management accounting.

THOMAS J. HOFFERD, Ph.D. (Central Florida), C.P.A., *Assistant Professor*: Information Systems.

SCOTT K. JONES, Ph.D. (Drexel), *Professor*; also, *Academic Associate Dean, College of Business and Economics*: Management accounting.

GREGORY KANE, Ph.D. (Virginia Tech), C.P.A., *Associate Professor*: Financial accounting.

RITA M. KINGERY, M.S., (California State), C.P.A., *Instructor*: Financial and managerial accounting.

ELLEN F. MONK, M.B.A., (Delaware), *Instructor*: Information systems.

ROBERT L. PARETTA, Ph.D. (Syracuse), C.P.A., *Associate Professor*: Financial accounting.

NEAL A. PHILLIPS, J.D. (Villanova), LL.M. (Temple), *Assistant Professor*: Business law.

SHELDON D. POLLACK, Ph.D. (Cornell), *Associate Professor*: Business law.

JANIS R. REEDER, Ph.D. (South Carolina), C.P.A., *Associate Professor*: Taxation.

BERNADETTE M. RUF, Ph.D. (Virginia Tech), *Associate Professor*: Information systems.

MARK A. SERVA, Ph.D. (Texas), *Assistant Professor*: Information Systems.

FREDERIC M. STINER, JR., Ph.D. (Nebraska), C.P.A., *Associate Professor*: Financial accounting and information systems.

MICHAEL G. VAN LEER, M.B.A. (Drexel), C.P.A., *Instructor*: Financial and managerial accounting.

CLINTON E. WHITE, JR., D.B.A. (Indiana), C.P.A., *Associate Professor*: Information systems and auditing.

JOHN H. WRAGGE, Ph.D. (Houston), C.P.A., *Associate Professor*: Management accounting and information systems.

Business Administration

HOWARD GARLAND, Ph.D. (Cornell), *Chaplin Tyler Professor of Business and Chair*: Management.

RICK L. ANDREWS, Ph.D. (Virginia Tech), *Associate Professor*: Marketing.

JOHN H. ANTIL, Ph.D. (Penn State), *Associate Professor and Head of Marketing Management Faculty*: Marketing.

KARL F. AQUINO, Ph.D. (Northwestern), *Assistant Professor*: Management.

THOMAS E. BECKER, Ph.D. (Ohio State), *Associate Professor*: Management.

V. CARTER BROACH, Ph.D. (Michigan State), *Instructor*: Marketing.

TODD CHILES, Ph.D. (Oregon), *Assistant Professor*: Management.

DARWIN J. DAVIS, Ph.D. (Indiana), *Assistant Professor*: Marketing.

DIANE L. FERRY, Ph.D. (Pennsylvania), *Associate Professor*: Management.

SANDRA M. FIELDS, M.B.A. (Radford), *Instructor*: Marketing.

MERYL P. GARDNER, Ph.D. (Carnegie-Mellon), *Associate Professor*: Marketing.

WILLIAM V. GEHRLEIN, Ph.D. (Penn State), *Professor*: Operations Management.

JENNIFER GREGAN-PAXTON, Ph.D. (Minnesota), *Assistant Professor*: Marketing.

CYNTHIA HUFFMAN, Ph.D. (Minnesota), *Assistant Professor*: Marketing.

ROBERT J. KENT, Ph.D. (Cincinnati), *Associate Professor*: Marketing.

MARY C. KERNAN, Ph.D. (Akron), *Associate Professor and Head of Management Faculty*: Management.

JOHN L. KMETZ, D.B.A. (Maryland), *Associate Professor*: Management.

CHRISTINE T. KYDD, Ph.D. (Pennsylvania), *Associate Professor*: Operations Management.

AJAY K. MANRAI, Ph.D. (Northwestern), *Professor*: Marketing.

LALITA A. MANRAI, Ph.D. (Northwestern), *Associate Professor*: Marketing.

JOSHUA D. MARTIN, M.B.A. (Pace), *Instructor*: Marketing.

SHARON O'DONNELL, Ph.D. (South Carolina), *Assistant Professor*: Management.

MICHAEL F. POHLEN, Ph.D. (Ohio State), *Associate Professor*: Operations Management.

JOHN F. PREBLE, Ph.D. (Massachusetts), *Associate Professor*: Management.

ERWIN M. SANIGA, Ph.D. (Penn State), *Professor and Head of Operations Management Faculty*: Operations.

JOHN E. SAWYER, Ph.D. (Illinois), *Associate Professor and Area Head for Management*: Management.

STEWART A. SHAPIRO, Ph.D. (Arizona), *Assistant Professor*: Marketing.

ARTHUR A. SLOANE, D.B.A. (Harvard), *Professor*: Management.

DANIEL P. SULLIVAN, Ph.D. (South Carolina), *Associate Professor*: Management.

ANTHONY TOWNSEND, Ph.D. (Virginia Polytech), *Assistant Professor*: Information technologies management.

BRET J. WAGNER, Ph.D. (Michigan State), *Assistant Professor*: Operations Management.

GARY R. WEAVER, Ph.D. (Iowa & Penn State), *Assistant Professor*: Management.

RICHARD M. WEISS, Ph.D. (Cornell), *Associate Professor*: Management.

Joint and Adjunct Appointments

Philosophy: DAVID W. HASLETT.

Economics

JAMES L. BUTKIEWICZ, Ph.D. (Virginia), *Professor and Chair*: Macroeconomics.

ELEANOR D. CRAIG, M.A. (Pennsylvania), *Associate Professor and Associate Chair*: Public finance.

KENNETH A. LEWIS, Ph.D. (Princeton), *Chaplin Tyler Professor of Business and Associate Chair*: Applied econometrics.

BURTON A. ABRAMS, Ph.D. (Ohio State), *Professor*: Public choice.

RICHARD J. AGNELLO, Ph.D. (Johns Hopkins), *Associate Professor*; also *Associate Professor, College of Marine Studies*: Econometrics.

MICHAEL A. ARNOLD, Ph.D. (California, Los Angeles), *Associate Professor*: Microeconomics.

STACIE BECK, Ph.D. (Pennsylvania), *Associate Professor*: Monetary economics.

DAVID E. BLACK, Ph.D. (M.I.T.), *Associate Professor*: Microeconomics.

JOSEPH I. DANIEL, Ph.D. (Minnesota), *Associate Professor*: Industrial organization.

LAWRENCE P. DONNELLEY, Ph.D. (Brown), *Associate Professor*; also *Associate Provost for International Programs and Special Sessions*: International economics.

EVANGELOS M. FALARIS, Ph.D. (Minnesota), *Associate Professor*: Development economics.

FARLEY GRUBB, Ph.D. (Chicago), *Professor*: Economic history.

WILLIAM HARRIS, Ph.D. (Virginia Tech), *Assistant Professor*: Microeconomics.

SAUL D. HOFFMAN, Ph.D. (Michigan), *Professor*: Labor economics.

KENNETH J. KOFORD, Ph.D. (California, Los Angeles), *Professor*; also *Professor, Political Science*: Industrial organization.

WILLIAM R. LATHAM III, Ph.D. (Illinois), *Associate Professor*: Urban and regional economics.

CHARLES R. LINK, Ph.D. (Wisconsin), *Professor*: Labor economics.

JEFFREY B. MILLER, Ph.D. (Pennsylvania), *Professor*: Monetary economics.

JAMES MULLIGAN, Ph.D. (Minnesota), *Professor*: Industrial organization.

JAMES B. O'NEILL, Ph.D. (Purdue), *Professor*; also *Director, Center for Economic Education and Entrepreneurship*: Economic education.

LAURENCE S. SEIDMAN, Ph.D. (California, Berkeley), *Chaplin Tyler Professor*: Macroeconomics.

RUSSELL F. SETTLE, Ph.D. (Wisconsin), *Professor*: Public finance.

DAVID R. STOCKMAN, Ph.D. (University of Chicago), *Assistant Professor*: Macroeconomics.

JAMES R. THORNTON, Ph.D. (Cornell), *Associate Professor*: Comparative economic systems.

TONI M. WHITED, Ph.D. (Princeton), *Associate Professor*: Macroeconomics.

JOHN S. YING, Ph.D. (California, Berkeley), *Associate Professor*: Industrial organization.

Joint Appointments

Business Administration: WILLIAM V. GEHRLEIN.

Finance: ROBERT L. SCHWEITZER.

Food and Resource Economics: CONRADO M. GEMPESAW, II.

Marine Studies: LEE G. ANDERSON, GEORGE R. PARSONS.

Finance

M. ANDREW FIELDS, Ph.D. (Virginia Tech), *Associate Professor and Chair*: Corporate governance, corporate control, acquisitions.

KENNETH BIEDERMAN, Ph.D. (Purdue), *Professor; also Interim Dean, College of Business and Economics*: Investment strategies, financial markets, equities.

HELEN M. BOWERS, Ph.D. (South Carolina), *Associate Professor*: Corporate finance, financial markets and institutions.

DANIEL N. DELI, Ph.D. (Arizona State), *Assistant Professor*: Corporate finance and governance.

RUDOLPH E. D'SOUZA, Ph.D. (South Carolina), *Associate Professor*: Investments, corporate finance.

TIMOTHY E. DETWILER, M.B.A. (Western Illinois), *Instructor*: Undergraduate Advisor.

PHYLLIS Y. KEYS, Ph.D. (Florida State), *Assistant Professor*: Corporate governance and restructurings.

DONALD J. PUGLISI, D.B.A. (Indiana), *MBNA America Business Professor*: Investments, common stock, securities.

BRECK L. ROBINSON, Ph.D. (Tennessee), *Assistant Professor*: Financial institutions.

ROBERT L. SCHWEITZER, Ph.D. (Duke), *Professor*: Financial institutions.

RAJ D. VARMA, Ph.D. (Penn State), *Associate Professor*: Corporate governance, raising capital, large investors.

COLLEGE OF ENGINEERING

Office of the Dean

ANDRAS Z. SZERI, Ph.D. (Leeds), *Interim Dean; also Robert L. Spencer Professor, Mechanical Engineering*.

DAN L. BOULET, JR., M.S. (Air Force Institute of Technology), *Assistant Dean, Undergraduate Affairs*.

HEATHER EARLY, *Assistant to the Dean*.

NADINE OWENS, B.A. (Hampton University), *Coordinator*.

ROBERT W. SAMPLE, M.S.B.A. (Rochester), *Assistant Dean, College Affairs*.

MICHAEL L. VAUGHAN, M.S. (North Carolina A&T), *Assistant Dean, Student Affairs, and Director of the RISE Program*.

KATHLEEN C. WERRELL, B.S. (Muhlenberg), *Assistant Dean, Engineering Outreach*.

Air Force ROTC

PATRICIA A. MEIER, M.A. (Central Michigan), *Lieutenant Colonel, United States Air Force, Professor and Chair*.

PETER M. GARDZINA, M.A. (Northern Michigan), *Major, United States Air Force, Assistant Professor*.

PAUL D. HAMEL, M.Ed. (Wilmington College), *Captain, United States Air Force, Assistant Professor*.

Biomedical Engineering

KENNETH E. BARNER, Ph.D. (Delaware), *Assistant Professor of Electrical and Computer Engineering*: Biomedical engineering, biological signal processing, human-computer interaction.

THOMAS S. BUCHANAN, Ph.D. (Northwestern), *Associate Professor of Mechanical Engineering*: Biomechanics and neural control of muscle coordination.

FRANCIS J. DOYLE III, Ph.D. (California Institute of Technology), *Associate Professor of Chemical Engineering*: Biological control systems, physiological regulatory mechanisms.

JOHN G. ELIAS, Ph.D. (Yale), *Professor of Electrical and Computer Engineering*: Neural networks, neural computation, parallel and distributed processors.

ABRAHAM M. LENHOFF, Ph.D. (Wisconsin), *Professor of Chemical Engineering*: Bioengineering, transport phenomena.

ANNE SKAJA ROBINSON, Ph.D. (Illinois), *Assistant Professor of Chemical Engineering*: Molecular and cellular engineering, protein folding and production.

MICHAEL H. SANTARE, Ph.D. (Northwestern), *Associate Professor of Mechanical Engineering and Director, Orthopedic and Biomechanical Engineering Center*: Orthopedic biomechanics, mechanics of soft tissues.

DANIEL VAN DER WEIDE, Ph.D. (Stanford), *Associate Professor of Electrical and Computer Engineering*: Middle ear implants, ultrafast electronics applied to spectroscopy and microscopy.

ANTHONY S. WEXLER, Ph.D. (California Institute of Technology), *Professor of Mechanical Engineering*: Atmospheric aerosols, renal concentrating mechanism, airway deposition of pollutants, muscle mechanics.

ANDREW L. ZYDNEY, Ph.D. (Massachusetts Institute of Technology), *Professor of Chemical Engineering*: Biomedical engineering, mass transfer processes, blood and protein separations, artificial organs.

Chemical Engineering

ERIC W. KALER, Ph.D. (Minnesota), *Elizabeth Inez Kelley Professor and Chair*: Colloid and surfactant science, complex fluid thermodynamics, materials synthesis, small-angle scattering.

JON H. OLSON, D.Eng. (Yale), *Professor and Associate Chair, Undergraduate Programs*: Catalysis, kinetics and reactor design, process control.

MARK A. BARTEAU, Ph.D. (Stanford), *Robert L. Pigford Professor; also Professor, Chemistry and Biochemistry and Director, Center for Catalytic Science and Technology*: Surface science and catalysis on metals and metal oxides, spectroscopic characterization of surfaces and catalysts.

ANTONY N. BERIS, Ph.D. (M.I.T.), *Professor*: Computational fluid mechanics, particularly of viscoelastic materials and free surface flows, numerical analysis on supercomputers and parallel computers, polymer processing.

DOUGLAS J. BUTTREY, Ph.D. (Purdue), *Associate Professor*: Synthesis, crystal growth, and characterization of materials for applications in superconductivity, catalysis and fast ion conduction.

COSTEL D. DENSON, Ph.D. (Utah), *Professor; also Vice Provost for Research*: Polymer processing and rheology, mixing, mass transfer, chemical reactions.

PRASAD DHURJATI, Ph.D. (Purdue), *Professor*: Biochemical engineering, process control, artificial intelligence.

FRANCIS J. DOYLE III, Ph.D. (California Institute of Technology), *Associate Professor*: Process identification and control, nonlinear process modeling, pulp and paper control, biosystems control.

HENRY C. FOLEY, Ph.D. (Penn State), *Professor; also Professor, Chemistry and Biochemistry*: Catalysis and separation, molecular sieves, metallic membranes, materials synthesis, mass transfer, adsorption and kinetics.

MARYLIN C. HUFF, Ph.D. (Minnesota), *Assistant Professor*: Reaction engineering and catalysis, transport phenomena, novel catalyst design.

ABRAHAM M. LENHOFF, Ph.D. (Wisconsin), *Professor*: Transport phenomena, separation processes, biophysics and bioengineering.

- RAUL F. LOBO, Ph.D. (California Institute of Technology), *Assistant Professor*: Inorganic materials synthesis and characterization, catalysis and kinetics, and adsorption and separations.
- ROY L. McCULLOUGH, Ph.D. (New Mexico), *Professor*: Polymer composites, polymer physics.
- ANNE SKAJA ROBINSON, Ph.D. (Illinois), *Assistant Professor*: Molecular and cellular engineering for improved protein production.
- T.W. FRASER RUSSELL, Ph.D. (Delaware), *Allan P. Colburn Professor*; also *Chief Engineer, Institute of Energy Conversion*: Semiconductor reaction and reactor engineering, photovoltaic unit operations, multi-phase fluid mechanics.
- STANLEY I. SANDLER, Ph.D. (Minnesota), *Henry Belin du Pont Professor*; also *Director, Center for Molecular and Engineering Thermodynamics and Henry Belin du Pont Professor of Chemistry and Biochemistry*: Thermodynamics, statistical mechanics and liquid-state theory phase equilibria, separations processes, biochemical processes.
- JEROLD M. SCHULTZ, Ph.D. (Carnegie Institute of Technology), *C. Ernest Birchenall Professor of Chemical Engineering*; also *Professor, Materials Science*: Materials science, structure and properties of polymers, x-ray diffraction technology.
- ANNETTE D. SHINE, Ph.D. (M.I.T.), *Associate Professor*: Polymer and composite rheology and processing, polymer degradation.
- NORMAN J. WAGNER, Ph.D. (Princeton), *Professor*: Material micromechanics, interfacial mechanics, adsorption/desorption.
- RICHARD P. WOOL, Ph.D. (Utah), *Professor*: Polymer physics, interfaces, composites, dynamics, fracture, biodegradation, materials science.
- ANDREW L. ZYDNEY, Ph.D. (M.I.T.), *Professor*: Biological separations, artificial organs, membrane processes.

Joint and Adjunct Appointments

- Adjunct Faculty*: RALPH J. BERTOLACINI, M.S. • WILLIAM E. FARNETH, Ph.D. • ROBERT K. GRASSELLI, Ph.D. • JOHN H. GREEN, Ph.D. • MICHAEL P. HAROLD, Ph.D. • SIMON G. KUKES, Ph.D. • JAN L. LEROU, Ph.D. • STEVEN R. LUSTIG, Ph.D. • JAMES E. LYONS, Ph.D. • WILLIAM H. MANOGUE, Ph.D. • LEO E. MANZER, Ph.D. • PATRICK L. MILLS, Ph.D. • BABATUNDE OGUNNAIKE, Ph.D. • ROGER PHILLIPS, Ph.D. • RICHARD J. QUANN, Ph.D. • A.V. RAMAMURTHY, Ph.D. • MARK R. SCHURE, Ph.D. • RAVI SHARMA, Ph.D. • KURT F. WISSBRUN, Ph.D.
- Off-Campus Faculty*: ARTHUR W. ETCHELLS, Ph.D. • JAMES J. GRANT, M.Ch.E. • RICHARD GRENVILLE, Ph.D. • ALLAN E. JONES, Ph.D. • KENNETH L. MULHOLLAND, Ph.D. • ROBERT SYLVESTER, B.S. • JAMES N. TILTON, Ph.D. • E. ALAN UEBLER, Ph.D.

Civil and Environmental Engineering

- CHIN P. HUANG, Ph.D. (Harvard), *Distinguished Professor of Environmental Engineering and Chair*; also *Professor, Marine Studies*: Industrial waste management, interfacial phenomena, water chemistry.
- DOV LESHCHINSKY, Ph.D. (Illinois), *Professor and Associate Chair*: Soil mechanics, geotechnical engineering.
- HERBERT E. ALLEN, Ph.D. (Michigan), *Professor*: Water and sediment chemistry, heavy metal pollution.
- DANIEL KUHYN CHA, Ph.D. (California, Berkeley), *Assistant Professor*: Process control of biological wastewater treatment facilities, biotransformation of organic and inorganic toxic pollutants, bioenvironmental engineering.
- MICHAEL J. CHAJES, Ph.D. (California, Davis), *Associate Professor and Coordinator, Civil Engineering*: Structural design and analysis, infrastructure evaluation and rehabilitation.
- ALEXANDER H.-D. CHENG, Ph.D. (Cornell), *Professor and Coordinator, Departmental Graduate Programs*; also *Professor, Marine Studies*: Water resources, groundwater flow, hydraulic fracturing, poroelasticity, boundary element methods.
- PEI CHIU, Ph.D. (Stanford), *Assistant Professor*: Environmental redox chemistry, halogenated organic pollutants.
- ROBERT A. DALRYMPLE, Ph.D. (Florida), *Edward C. Davis Professor*; also *Professor, Marine Studies*; also *Director, Center for Applied Coastal Research*: Coastal engineering, coastal processes, hydrodynamics.

- STEVEN K. DENTEL, Ph.D. (Cornell), *Professor and Coordinator, Environmental Engineering*: Application of colloid and interface science to water and wastewater treatment processes.
- ARDESHIR FAGHRI, Ph.D. (Virginia), *Associate Professor*: Traffic analysis, highway design.
- KEVIN J. FOLLIARD, Ph.D. (California at Berkeley), *Assistant Professor*: Concrete materials, high-performance concrete, durability of construction materials.
- JOHN W. GILLESPIE, JR., Ph.D. (Delaware), *Professor*; also *Professor, Materials Science and Engineering and Associate Director, Center for Composite Materials*: Composite materials, experimental mechanics, fracture mechanics, residual stress analysis joining.
- PAUL T. IMHOFF, Ph.D. (Princeton), *Assistant Professor*: Groundwater hydrology, transport, mass transfer processes.
- VICTOR N. KALIAKIN, Ph.D. (California, Davis), *Associate Professor*: Computational mechanics, structural mechanics, geomechanics.
- ARNOLD D. KERR, Ph.D. (Northwestern), *Professor*: Engineering mechanics, structural analyses, ice engineering, and railroad engineering.
- SHINYA KIKUCHI, Ph.D. (Pennsylvania), *Professor*: Transportation engineering, urban transportation systems, logistics, operations research.
- JAMES T. KIRBY, Ph.D. (Delaware), *Professor*; also *Professor, Marine Studies*: Ocean and coastal engineering.
- NOBUHISA KOBAYASHI, Ph.D. (M.I.T.), *Professor*; also *Professor, Marine Studies*: Coastal engineering, coastal structures, sediment transport mechanics.
- DENNIS R. MERTZ, Ph.D. (Lehigh), *Associate Professor*: Structural design, fatigue and fracture, design methodologies.
- HARRY W. SHENTON, Ph.D. (Johns Hopkins), *Assistant Professor*: Structural dynamics, earthquake and wind engineering, civil structural control, experimental methods.
- IB A. SVENDSEN, Ph.D. (Technical University, Denmark), *Distinguished Professor of Ocean Engineering*; also *Professor, Marine Studies*: Coastal engineering, wave mechanics, hydrodynamics, ship maneuvering.

Joint and Adjunct Appointments

- Bioresources Engineering*: WILLIAM F. RITTER.
- Marine Studies*: MOHSEN BADIOEY, GEORGE W. LUTHER, III.
- Mathematical Sciences*: ROBERT P. GILBERT; ROBERT M. STARK.
- Plant and Soil Sciences*: DONALD L. SPARKS.
- Adjunct Appointments*: P.C. CHIANG, Ph.D. • J. DUFFIELD, M.S. • DRISS OUAZAR, Ph.D.

Electrical and Computer Engineering

- GONZALO R. ARCE, Ph.D. (Purdue), *Professor and Interim Chair*; also *Professor, Marine Studies*: Communications theory, image processing and coding, signal processing, pattern recognition.
- KENNETH E. BARNER, Ph.D. (Delaware), *Assistant Professor*: Signal, image, biomedical, and robust signal processing, nonlinear systems, communications and human-computer interaction.
- PAUL R. BERGER, Ph.D. (Michigan), *Associate Professor*: Optoelectronic circuits and devices.
- CHARLES G. BONCELET, Ph.D. (Princeton), *Professor*: Signal processing, control theory, digital communications, complexity theory.
- PHILLIP CHRISTIE, Ph.D. (Durham, England), *Associate Professor*: Optical interconnects for VLSI, heteroepitaxial crystal growth.
- JOHN G. ELIAS, Ph.D. (Yale), *Professor*: Parallel and distributed processor systems, computer architecture, neural networks, and neurocomputation.
- GUANG-RONG GAO, Ph.D. (M.I.T.), *Professor*: Computer architecture, parallel and distributed systems, VLSI and application-specific system design.
- ROBERT G. HUNSPERGER, Ph.D. (Cornell), *Professor*: Semiconductor devices and materials, optoelectronics, optical integrated circuits, microwave devices.
- CHARLES S. IH, Ph.D. (Pennsylvania), *Professor*; also *Professor, Marine Studies*: Electrooptical systems, applications of lasers and holography, input-output devices, coherent imaging systems.

- ASHFAQ A. KHOKHAR, Ph.D. (Southern California), *Assistant Professor*: Parallel algorithms and architectures, software systems for high performance computing.
- JAMES KOLODZEY, Ph.D. (Princeton), *Professor*: Optoelectronic materials and devices, molecular beam epitaxy, high-frequency measurements.
- DAVID L. MILLS, Ph.D. (Michigan), *Professor*: Computer networking architecture and protocol design, multimedia message systems.
- JOHNSON O. OLOWOLAFE, Ph.D. (California Institute of Technology), *Associate Professor*: Physics and technology of semiconductor devices/materials including processing, characterization analyses and integration, metallization for ULSI.
- DENNIS W. PRATHER, Ph.D. (Maryland), *Assistant Professor*: Numerical electromagnetic modeling of passive and active optical devices, diffractive and holographic optics, micro-optical processing systems, and optical communications.
- DANIEL W. van der WEIDE, Ph.D. (Stanford), *Associate Professor*: Ultrafast electronics applied to spectroscopy and microscopy, low-dimensional electron systems, middle ear implants.
- DARREN E. VENGROFF, Ph.D. (Brown), *Assistant Professor*: I/O systems for high-performance computing, including algorithms, implementation environments, and operating system support, microarchitectural simulation systems.
- PETER J. WARTER, Ph.D. (Princeton), *Professor*: Hardware database systems, printing systems, electrophotographic imaging, image processing and representation.
- XIANG-GEN XIA, Ph.D. (Southern California), *Associate Professor*: Wireless communications, error control coding and trellis coded modulations, multirate filterbanks and wavelet transforms, time-frequency analysis and synthesis.

Joint and Adjunct Appointments

Computer and Information Sciences: PAUL D. AMER

Marine Studies: VICTOR V. KLEMAS

Mathematical Sciences: M. ZUHAIR NASHED

Adjunct Faculty: A. BRINTON COOPER, Ph.D. • MICHAEL J. PIOVOSO, Ph.D.

Materials Science and Engineering

- JOHN F. RABOLT, Ph.D. (Southern Illinois), *Professor and Chair*: Macromolecular assemblies, spectroscopy, thin organic films.
- DOUGLAS J. BUTTREY, Ph.D. (Purdue), *Associate Professor*; also *Associate Professor, Chemical Engineering*: Inorganic oxide synthesis and crystal growth, characterization and processing: electronic materials.
- JINGGUANG G. CHEN, Ph.D. (Pittsburgh), *Associate Professor*: Surface and interface, nanostructured devices and sensors, environmental catalysis.
- TSU-WEI CHOU, Ph.D. (Stanford), *Jerzy L. Nowinski Professor*; also *Jerzy L. Nowinski Professor of Mechanical Engineering*: Composite materials, fracture, defect theory, applied mechanics.
- STEPHEN C. DEXTER, Ph.D. (Delaware), *Professor*; also *Professor of Marine Studies*: Electrochemical and biologically influenced corrosion, marine corrosion, surface chemistry and physics of microbiological attachment, biofouling.
- RUSHAD F. EDULJEE, Ph.D. (Delaware), *Assistant Professor*; also *Scientist, Center for Composite Materials*: Micromechanics, residual stress development, effect of residual stresses on performance, accelerated test methods for thermal aging and thermal cycling of composites.
- MARY E. GALVIN, Sc.D. (MIT), *Professor*: Electroluminescent polymers, polymer synthesis, polymer blends, inorganic/organic nanocomposites.
- JOHN W. GILLESPIE, JR., Ph.D. (Delaware), *Professor*; also *Professor, Civil and Environmental Engineering and Associate Director, Center for Composite Materials*: Composite materials, experimental mechanics, fracture mechanics, residual stress analysis joining.
- IAN W. HALL, Ph.D. (Leeds), *Associate Professor*; also *Associate Professor of Mechanical Engineering*: Electron microscopy, metal matrix composites titanium alloys, mechanical metallurgy.

- ROY L. McCULLOUGH, Ph.D. (New Mexico), *Professor*; also *Professor of Chemical Engineering*: Polymer physics, composite materials.
- AZAR PARVIZI-MAJIDI, Ph.D. (Surrey), *Associate Professor*; also *Associate Professor, Mechanical Engineering*: Processing and mechanical properties of composite materials, ceramic matrix composites, textile composites.
- JEROLD M. SCHULTZ, Ph.D. (Carnegie), *C. Ernest Birchenall Professor*; also *C. Ernest Birchenall Professor of Chemical Engineering*: Polymeric materials, diffraction technology, crystallization, composites.
- S. ISMAT SHAH, Ph.D. (Illinois, Urbana-Champaign), *Associate Professor*; also *Associate Professor, Physics and Astronomy*: Thin films, surface and interface, nanostructured materials, composites.

Mechanical Engineering

- SURESH G. ADVANI, Ph.D. (Illinois, Urbana-Champaign), *Acting Chair and Professor*: Computational fluid mechanics and heat transfer, polymer and composites processing, transport phenomena in manufacturing processes, non-Newtonian fluid mechanics and rheology.
- SUNIL K. AGRAWAL, Ph.D. (Stanford), *Associate Professor*: Control of mechanical systems, robotics, optimization.
- THOMAS S. BUCHANAN, Ph.D. (Northwestern), *Associate Professor*: Musculoskeletal biomechanics, neural control of movement, medical imaging.
- TSU WEI CHOU, Ph.D. (Stanford), *Jerzy L. Nowinski Professor*: Composite materials, crystal defect theory, micro-biomechanics, fracture of solids and applied mechanics.
- MICHAEL D. GREENBERG, Ph.D. (Cornell), *Professor*: Applied mathematics, fluid mechanics.
- IAN W. HALL, Ph.D. (Leeds), *Associate Professor*: Metal matrix composites, electron microscopy, materials science, metallurgy.
- MICHAEL KEEFE, Ph.D. (Minnesota), *Associate Professor*: Computer-aided design, mechanical design, system modeling and rapid tooling.
- JOHN M. LAMBROS, Ph.D. (California Institute of Technology), *Assistant Professor*: Dynamic and quasi-static fracture, thermonuclear modelling and failure mechanics of composites, fracture of inhomogeneous and functionally graded solids.
- AZAR PARVIZI-MAJIDI, Ph.D. (Surrey), *Associate Professor*: Fracture and failure of composites, ceramic matrix composites, experimental methods, corrosion.
- AJAY K. PRASAD, Ph.D. (Stanford), *Associate Professor*: Particle imaging techniques for fluid mechanics and heat transfer, vortex dynamics, entrainment in heated jets, mixing studies.
- R. VALERY ROY, Ph.D. (Rice), *Associate Professor*: Nonlinear stochastic and deterministic dynamics, chaotic dynamics, vibrations, numerical analysis, applied mathematics.
- MICHAEL H. SANTARE, Ph.D. (Northwestern), *Associate Professor*: Fracture mechanics, continuum mechanics, composite structures, orthopedic biomechanics.
- LEONARD W. SCHWARTZ, Ph.D. (Stanford), *Professor*; also *Professor, Mathematical Sciences*: Fluid mechanics, multiphase flow, applied mathematics.
- JIAN-QIAO SUN, Ph.D. (California, Berkeley), *Associate Professor*: Nonlinear dynamics, nonlinear control, smart materials, vibration and noise control, manufacturing process control.
- ANDRAS Z. SZERI, Ph.D. (Leeds), *Robert L. Spencer Professor*; also *Interim Dean, College of Engineering*: Applied mechanics, fluid mechanics, tribology.
- JACK R. VINSON, Ph.D. (Pennsylvania), *H. Fletcher Brown Professor*; also *H. Fletcher Brown Professor, Marine Studies*: Structural mechanics, anisotropic composite materials, plate and shell theory, structural optimization, aerospace structures, sandwich structures.
- HAI WANG, Ph.D. (Penn State), *Assistant Professor*: Combustion, combustion-generated pollutants, high-temperature chemical kinetics.
- LIAN-PING WANG, Ph.D. (Washington State), *Assistant Professor*: Computational fluid dynamics, turbulence, multiphase flow, particulate processing.

ANTHONY S. WEXLER, Ph.D. (California Institute of Technology), *Associate Professor*: Air pollution, aerosols, dosimetry/toxicology, functional electrical stimulation of muscles.

DICK J. WILKINS, Ph.D. (Oklahoma), *Professor*: Learning, design integration, composites durability and damage tolerance.

Joint and Adjunct Appointments

Bioresources Engineering: JAMES L. GLANCEY.

Marine Studies: PABLO HUQ.

Research Faculty: TARIQ RAHMAN, Ph.D.

Adjunct Faculty: RICHARD A. CAIRNCROSS, Ph.D. • SHIYI CHEN, Ph.D. • STEPHEN C. DANFORTH, Ph.D. • RICHARD ELEY, Ph.D. • BRUCE K. FINK, Ph.D. • EDWARD P. GARGULIO, Ph.D. • ROGER V. GONZALEZ, Ph.D. • SAID JAHANMIR, Ph.D. • KOSTAS KONTOMARIS, Ph.D. • FREEMAN MILLER, Ph.D. • OLIVER RODGERS • PETER POPPER, Ph.D. • KARL V. STEINER, Ph.D.

COLLEGE OF HEALTH AND NURSING SCIENCES

Office of the Dean

BETTY J. PAULANKA, Ed.D. (Temple), *Dean and Professor*.

PAMELA B. BEEMAN, Ph.D. (Pennsylvania), *Associate Dean and Associate Professor*.

JUDY T. HAHN, *Assistant to the Dean*.

AMY L. TAYLOR, M.B.A. (Delaware), *Business Manager*.

Biomechanics and Movement Science

JAMES G. RICHARDS, Ph.D. (Indiana), *Program Director; also Associate Professor, Health and Exercise Sciences*: Device design and gross musculoskeletal modeling, gait analysis, sport biomechanics.

SUNIL AGRAWAL, Ph.D. (Northwestern), *Associate Professor, Mechanical Engineering*: Control of mechanical systems, robotics, optimization.

DAVID A. BARLOW, Ph.D. (Indiana), *Associate Professor and Chair, Health and Exercise Sciences*: Sport biomechanics, equine biomechanics, anatomy.

KENNETH E. BARNER, Ph.D. (Delaware), *Assistant Professor, Electrical and Computer Engineering*: Signal and image processing in human movement and human-computer interaction systems.

STUART A. BINDER-MACLEOD, Ph.D., P.T. (Medical College of Virginia), *Professor, Physical Therapy*: Neurophysiology, relationship between activation frequency and force output of skeletal muscle, muscle fatigue.

THOMAS S. BUCHANAN, Ph.D., (Northwestern), *Associate Professor, Mechanical Engineering*: Musculoskeletal modelling, EMG-driven biomechanical models, neural control of arm postures, neuromuscular mechanisms of knee joint stability.

RICHARD FOULDS, Ph.D. (Tufts), *Research Professor, Computer and Information Sciences; also Director of the Applied Science and Engineering Laboratories*: Gesture biomechanics, oculomotor study, telemanipulation computer/human interaction, and gesture recognition.

MICHAEL KEEFE, Ph.D. (Minnesota), *Associate Professor, Mechanical Engineering*: Geometric modeling of complex biological surfaces.

IRENE S. McCLAY, Ph.D., P.T. (Penn State), *Associate Professor, Physical Therapy*: Biomechanics, lower extremity mechanics, injury, locomotion, treatment, intervention.

FREEMAN MILLER, M.D. (Colorado), *Department of Orthopedics, A.I. duPont Institute*: Pediatric biomechanics, birthing injury analysis, gait analysis of children with cerebral palsy.

ROBERT E. NEEVES, Ph.D. (Utah), *Professor, Health and Exercise Sciences*: EKG interpretation, physiological response to exercise induced stress, function, and human organ plastination.

TARIQ RAHMAN, Ph.D. (Drexel), *Research Assistant Professor, Computer and Information Sciences; also Research Associate, Center for Applied Science and Engineering*: Application of extended physiological proprioception to the control of robots, and prostheses.

MICHAEL H. SANTARE, Ph.D. (Northwestern), *Associate Professor, Mechanical Engineering*: Fracture mechanics, continuum mechanics, composite structures, orthopedic biomechanics.

JOHN P. SCHOLZ, Ph.D., P.T. (Connecticut), *Associate Professor, Physical Therapy*: Movement coordination, movement disorders, regulation of limb stiffness.

LYNN SNYDER-MACKLER, P.T., Sc.D. (Boston University), *Associate Professor, Physical Therapy*: Neuromuscular physiology, applied anatomy, anterior cruciate ligament injury.

JIAN-QIAO SUN, Ph.D. (Utah), *Associate Professor, Mechanical Engineering*: Suppression of abnormal tremor, stability of human movement.

ANTHONY S. WEXLER, Ph.D. (Cal. Tech.), *Professor, Mechanical Engineering*: Human skeletal muscle, renal concentrating mechanism, deposition of atmospheric aerosols in human airways.

Health and Exercise Sciences

DAVID A. BARLOW, Ph.D. (Indiana), *Associate Professor and Chair*: Biomechanical aspects of sport science/medicine.

AVRON ABRAHAM, Ph.D. (Connecticut), *Associate Professor*: Exercise physiology and health fitness.

JANICE BIBIK, Ph.D. (Syracuse), *Associate Professor*: Teaching and curriculum.

PAUL G. BILLY, M.Ed. (Delaware), *Associate Professor*: Lifetime activities.

JEROME D. BROWN, JR., M.S. (Delaware), *Instructor*: Health education.

KAREN F. EDWARDS, Ed.D. (Temple), *Assistant Professor*: Health education.

STEPHEN C. GOODWIN, Ph.D. (Penn State), *Associate Professor*: Health education.

WILLIAM H. JOHNSON, JR., M.S. (Delaware), *Academic Advisor*.

BARBARA J. KELLY, Ph.D. (Delaware), *Professor*: Philosophy, history, women in physical education.

JAMES W. KENT, Ph.D. (Iowa), *Associate Professor*: Curriculum/pedagogical techniques in physical education.

ROBERT E. KRAFT, Ed.D. (Syracuse), *Professor*: Motor development, elementary physical education.

RON E. LUDINGTON, *Director, Ice Skating Science Development Center*.

ANN R. McNEIL, Ed.D. (Delaware), *Associate Professor*: Teacher education.

ROBERT E. NEEVES, Ph.D. (Utah), *Professor*: Exercise physiology.

JOHN J. O'NEILL, M.Ed. (Delaware), *Assistant Professor; also Director, Recreation and Intramurals*.

JOYCE E. PERRY, B.S. (University of Delaware), *Assistant Professor*: Health education and educational technology.

P. MICHAEL PETERSON, Ed.D. (Kentucky), *Associate Professor*: Health education.

MICHELLE A. PROVOST-CRAIG, Ph.D. (Maryland), *Associate Professor*: Exercise physiology, cardiac rehabilitation.

JAMES G. RICHARDS, Ph.D. (Indiana), *Professor*: Applied biomechanics.

JANET A. SMITH, Ed.D. (Delaware), *Associate Professor*: Teacher education, cooperating teachers.

ROGER J. SPACHT, R.Ed. (Indiana), *Associate Director, Recreation and Intramurals*: Outdoor recreation, adventure, and challenge education, outdoor education, recreation administration.

D. ALLAN WATERFIELD, Ph.D. (Ohio State), *Professor*: Exercise physiology.

Joint Appointments

Intercollegiate Athletics: JOAN COUCH, ANTHONY DECKER, BONNIE JILL FERGUSON, JAMES W. FISCHER, SCOTT GRZENDA, KEITH A. HANDLING, ROBERT M. HANNAH, JOHN T. HAYMAN, MICHAEL J. HIGGINS, MARY ANN HITCHENS, EDGAR N. JOHNSON, SEAN KEARNEY, THEODORE KEMPSKI, JAMES W. KENT, LOREN E. KLINE, EDWARD MALEY, SUSAN M. McGRATH-POWELL, HAROLD R. RAYMOND, MARC SAMONISKY, JOHN SCHUSTER, ROBERT SHILLINGLAW, TRINA WILSON.

Medical Technology

- ANNA P. CIULLA, M.C.C. (Hahnemann), *Associate Professor and Chair*: Clinical chemistry.
- MARGARET R. BRABENDER, B.S. (Belmont), *Laboratory Coordinator*: Phlebotomy, parasitology, urinalysis, virology, immunology.
- KAREN R. COLE, B.S. (Delaware), *Laboratory Coordinator*: Clinical chemistry.
- DEBORAH COSTA, B.S. (Delaware), *Education Coordinator*: Phlebotomy, clinical chemistry, clinical practicum.
- ELYSE E. FORAKER, B.S. (Millersville), *Laboratory Coordinator*: Medical microbiology, mycology.
- DONALD C. LEHMAN, M.Sc. (Wright State), *Assistant Professor*: Medical microbiology, parasitology, computers, statistics.
- VICTORIA L. MADUSKUIE, B.S. (Indiana University of Pennsylvania), *Laboratory Coordinator*: Hematology, immunohematology.
- RAELENE E. MASER, Ph.D. (Pittsburgh), *Associate Professor*: Diabetic complications, neuropathy, epidemiology, hematology.
- MARY ANN McLANE, Ph.D. (Temple), *Assistant Professor*: Integrin-ligand interactions, clinical chemistry.
- MARY BETH MIELE, Ph.D. (Penn State), *Assistant Professor*: Melanoma, cancer metastasis, immunodiagnostics, microbiology.
- KENNETH L. SISCO, M.D. (Arkansas), Ph.D. (Johns Hopkins), *Adjunct Associate Professor and Medical Director*: Anatomic and clinical pathology, molecular biology.

Nursing

- JANICE A. SELEKMAN, D.N.Sc. (Pennsylvania), *Professor and Chair*: Nursing of children.
- PAMELA BEEMAN, Ph.D. (Pennsylvania), *Associate Professor; also Associate Dean, College of Health and Nursing Sciences*: Maternal/child health.
- MARGARET L. BIRNEY, Ph.D. (Wayne State), *Associate Professor*: Cardiopulmonary nursing.
- LINDA BUCHER, D.N.Sc. (Widener), *Associate Professor*: Medical-surgical nursing, critical care.
- CHRISTINE CALAMARO, M.S.N. (Pittsburgh), *Clinical Director*: Family nurse practitioner.
- CHRISTINE A. CANNON, Ph.D. (Delaware), *Associate Professor*: Medical-surgical nursing.
- SHEILA CUSHING, M.S. (Maryland), *Laboratory Coordinator*: Medical-surgical nursing.
- MARGARET B. DADA, M.S.N. (Pennsylvania), *Instructor*: Pediatrics.
- PATRICIA DRAKE, M.S.N. (Delaware), *Instructor*: Maternal/child health.
- JAYNE I. FERNSLER, D.S.N. (Alabama), *Professor*: Oncology/immune deficiency nursing.
- LAURA S. GRIFFIN, M.S. (Delaware), *Assistant Professor*: Medical-surgical nursing.
- PATRICIA G. GRIM, *Assistant to the Chair*.
- BETHANY HALL-LONG, Ph.D. (George Mason), *Assistant Professor*: Community health.
- THOMAS L. HARDIE, Ed.D. (Columbia), *Assistant Professor*: Psychiatric nursing.
- EVELYN R. HAYES, Ph.D. (Boston University), *Professor*: Public health and family nurse practitioner programs.
- JUDY HENDRICKS, M.S. (Delaware), *Assistant Professor*: Adult health nurse practitioner.
- JUDY HERRMAN, M.S. (Delaware), *Instructor*: Maternal/child health.
- BARBARA A. HYATT, M.S. (Delaware), *Assistant Professor*: Psychiatric and mental health nursing.
- PAULA R. KLEMM, D.N.Sc. (Catholic University of America), *Associate Professor*: Oncology.
- MADELINE LAMBRECHT, Ed.D. (Temple), *Associate Professor of Nursing; also Director, Division of Special Programs*: Psychiatric and mental health nursing.

- LISA McBETH-SNYDER, M.S.N. (California), *Instructor*: Maternal/child health.
- MARY ANN MILLER, Ph.D. (Temple), *Associate Professor*: Perinatal/women's health nursing.
- CAROL MOORE, M.S. (Pace), *Instructor*: Family nurse practitioner programs.
- BETTY J. PAULANKA, Ed.D. (Temple), *Professor and Dean, College of Health and Nursing Sciences*: Psychiatric and mental health nursing.
- LISA PLOWFIELD, Ph.D. (Virginia), *Assistant Professor*: Trauma, critical care.
- LUCILLE W. PULLIAM, D.S.N. (Alabama), *Associate Professor*: Geriatric/gerontologic nursing.
- LARRY PURNELL, Ph.D. (Columbia Pacific), *Professor*: Nursing administration, transcultural health care.
- JEAN RAYMOND, M.S. (Delaware), *Instructor*: Gerontology.
- CHRISTINE REILLY, Ph.D. (California School of Professional Psychology), *Associate Professor*: Psychiatric disorders, cognitive therapy, treatment outcomes.
- AMY SAUNDERS, M.S.N. (Delaware), *Instructor*: Pediatrics.
- KATHLEEN A. SCHELL, M.S. (Delaware), *Instructor*: Cardiopulmonary nursing, critical care.
- BARBARA L. SHEER, D.N.Sc. (Widener), *Assistant Professor*: Family nurse practitioner.
- MARYBETH SNYDER, M.S. (Delaware), *Instructor*: Medical-surgical nursing.
- ALAN E. START, A.S. (Del Tech), *Coordinator, Media Services*.
- GAIL H. WADE, M.S. (Delaware), *Assistant Professor*: Maternal/child health.
- KATHLEEN WARREN, M.S.N. (Massachusetts General), *Instructor*: Obstetric/Gynecologic health nurse practitioner.
- JULIE K. WATERHOUSE, Ph.D. (Delaware), *Associate Professor*: Medical-surgical nursing.
- ERLINDA WHEELER, Ph.D. (SUNY), *Assistant Professor*: Medical-surgical nursing.

Nutrition and Dietetics

- JACK L. SMITH, Ph.D. (Cincinnati), *Professor and Chair*: Nutritional assessment, nutrition education for health professionals, iron nutriture.
- LETA P. ALJADIR, M.S. (Drexel), *Associate Professor*: Maternal and fetal nutrition, metabolic effects of dietary fiber, computer-based nutrition education.
- NANCY COTUGNA, Dr.Ph. (Loma Linda), *Professor*: Dietetics education, community/public health nutrition, cancer risk reduction.
- ALEXANDER R. DOBERENZ, Ph.D. (Arizona), *Professor*: Human nutrition, calcified tissue.
- MARIE T. FANELLI-KUCZMARSKI, Ph.D. (Rutgers), *Professor*: Gerontological nutrition, nutritional assessment methods.
- CHENG-SHUN FANG, Ph.D. (Nebraska), *Assistant Professor*: Lipid metabolism, dietary fiber and diseases, nutritional assessment.
- CHARLENE HAMILTON, Ph.D., R.D. (Massachusetts), *Associate Professor*: Computer applications, attitudinal measurements.
- ELIZABETH M. LIEUX, Ph.D. (Delaware), *Associate Professor*: Labor productivity, total quality management, management styles, educational strategies.
- CAROLYN K. MANNING, M.Ag. (Florida), *Associate Professor*: Food safety education, child nutrition, food service systems, productivity.
- ANN RUCINSKI, M.A., R.D. (Immaculata College), *Supervisor, Dietetic Internship Program*.
- KELEBOGILE V. SETILOANE, Ph.D. (Tufts University), *Assistant Professor*: Under-nutrition in children of urban and developing countries.
- CONNIE E. VICKERY, Ph.D. (Virginia Tech), *Professor*: Clinical dietetics education, nutrition education, nutrition counseling, nutrition and the elderly.

Joint and Adjunct Appointments

- Animal and Food Sciences: O. SUE SNIDER.

Division of Special Programs

MADELINE LAMBRECHT, Ed.D. (Temple), *Director; also Associate Professor of Nursing*

KAREN M. AVINO, B.S.N., R.N. (Delaware), *Distance Learning Recruiter*

LORI L. HUBNER, M.S.N., R.N. (Delaware), *BRN Coordinator*

**COLLEGE OF HUMAN RESOURCES,
EDUCATION AND PUBLIC POLICY**

Office of the Dean

DANIEL RICH, Ph.D. (M.I.T.), *Dean; also Professor, School of Urban Affairs and Public Policy; and Professor, Political Science and International Relations*

MARY HELEN CALLAHAN, M.A. (Harvard), *Assistant to the Dean for Advancement and Special Programs; also Executive Director, Urban Affairs Association*

GRACE E. DEHEL, B.A. (Gettysburg), *Assistant to the Dean for Financial Management*

STUART J. SHARKEY, M.Ed. (St. Lawrence), *Director; also Associate Professor, Individual and Family Studies*

ELAINE M. STOTKO, Ph.D. (Delaware), *Senior Assistant Dean; also Assistant Professor, Education*

Consumer Studies

KAREN F. STEIN, Ph.D. (Delaware), *Associate Professor and Chair: Leadership, public policy, consumer economics*

CAROL R. DENSON, Ph.D. (Delaware), *Associate Professor: Disabilities studies, consumer policy issues*

AUDREY L. HELFMAN, Ph.D. (Delaware), *Assistant Professor and LEAD Program Director: Leadership, human resources development, and organizational change*

JANET HETHORN, Ph.D. (University of Minnesota), *Associate Professor: Visual culture, design process and innovation*

MARY JO KALLAL, M.S. (Southern Illinois), *Professor: CAD, apparel design innovation*

HYE-SHIN KIM, Ph.D. (Iowa State), *Assistant Professor: Consumer behavior, apparel merchandising and retailing*

JOHN E. KUSHMAN, Ph.D. (North Carolina), *Professor: Consumer economics, leadership*

ROSETTA S. LaFLEUR, Ph.D. (Tennessee), *Associate Professor: Computer-aided merchandise planning*

JANE M. LAMB, Ph.D. (Tennessee), *Associate Professor: Social psychology, leadership studies, dress*

FRANCES W. MAYHEW, M.S. (Delaware), *Associate Professor: Costume textile history, material culture*

JAMES L. MORRISON, Ed.D. (Temple), *Professor: Consumer economics, leadership, online commerce*

BELINDA T. ORZADA, Ph.D. (Florida State), *Assistant Professor: Apparel design, fashion drape characteristics*

KAREN E. SCHAEFFER, M.S. (Penn State), *Associate Professor: Fashion, visual presentation, artwork*

JUDITH B. VAN NAME, Ph.D. (Virginia Tech), *Associate Professor: Family economics and resource management*

Joint Appointments

Urban Affairs and Public Policy: Maria P. Aristigueta, Deborah P. Auger, Robert B. Denhardt

Education

ROBERT HAMPEL, Ph.D. (Cornell), *Interim Director and Professor; also Coordinator, Ed.D. Program in Educational Leadership: History of education, contemporary educational policy*

DOUGLAS A. ARCHBALD, Ph.D. (Wisconsin), *Associate Professor: Educational leadership*

GEORGE G. BEAR, Ph.D. (Virginia), *Professor: Cognitive psychology, assistive technology, and educational technology and human factors*

DAVID BLACKER, Ph.D. (Illinois), *Assistant Professor: Philosophy*

JAN H. BLITS, Ph.D. (New School for Social Research), *Professor; also Professor, Political Science and International Relations: Philosophy and politics of education*

NANCY W. BRICKHOUSE, Ph.D. (Purdue), *Associate Professor: Science education*

ALBERT R. CAVALIER, Ph.D. (Alabama), *Associate Professor: Cognitive psychology, assistive technology, educational technology and human factors*

JAMES H. CROUSE, Ph.D. (Northwestern), *Professor; also Professor, Sociology and Criminal Justice: Sociology of education, social and economic stratification*

BARBARA K. CURRY, Ed.D. (Harvard), *Associate Professor: Educational leadership*

ZOUBEIDA R. DAGHER, Ph.D. (Iowa), *Associate Professor: Science education*

JAMES E. DAVIS, Ph.D. (Cornell), *Associate Professor: Evaluation research and policy analysis*

LAURA T. EISENMAN, Ph.D. (Vanderbilt), *Assistant Professor: Secondary special education, transition to adult life for students with disabilities*

RALPH P. FERRETTI, Ph.D. (Alabama), *Professor; also Professor, Psychology: Cognitive psychology, cognitive development and disabilities, problem solving, instruction, and special educational technology*

JOSEPH J. GLUTTING, Ph.D. (Pennsylvania), *Professor: School psychology, psychoeducational assessment, educational measurement*

JOANNE M. GOLDEN, Ph.D. (Ohio State), *Professor; and Coordinator, Ph.D. Program in Curriculum and Instruction: Language Arts*

ROBERTA M. GOLINKOFF, Ph.D. (Cornell), *H. Rodney Sharp Professor; also Professor, Psychology and Professor, Linguistics: Language acquisition, communication development, cognitive development, and psychology of reading*

LINDA S. GOTTFREDSON, Ph.D. (Johns Hopkins), *Professor: Educational policy, societal consequences of IQ differences, career development, occupational structure, differences in education and employment by race, sex, and physical handicap*

GABRIELLA HERMON, Ph.D. (Illinois), *Associate Professor; also Associate Professor, Linguistics: Language acquisition, principles and parameters framework, syntactic theory, language processing, and text analysis of problems of reading*

JAMES HIEBERT, Ph.D. (Wisconsin), *H. Rodney Sharp Professor: Mathematics education*

FRED HOFSTETTER, Ph.D. (Ohio State), *Professor: Technology instruction*

NANCY C. JORDAN, Ed.D. (Harvard), *Associate Professor: Reading, language and learning disabilities*

DAVID W. KAPLAN, Ph.D. (California, Los Angeles), *Professor; also Professor, Psychology: Educational statistics, factor analysis, and structural equation modeling*

CHARLES A. MacARTHUR, Ph.D. (American), *Professor: Special education, reading and writing skills for learning disabled students, vocational assessment of children*

VICTOR R. MARTUZA, Ph.D. (Maryland), *Associate Professor; also Director, Center for Intercultural Teacher Education: Measurement and evaluation, education and development, content of education, and statistical graphics*

EUGENE L. MATUSOV, Ph.D. (California at Santa Cruz), *Assistant Professor: Instruction and cognition*

RODNEY MCNAIR, Ph.D. (University of Delaware), *Assistant Professor: Mathematics education*

KATHLEEN M. MINKE, Ph.D. (Indiana), *Associate Professor: Early intervention for children with disabilities and at-risk children*

- WILLIAM B. MOODY, Ed.D. (Maryland), *Professor; also Professor, Mathematical Sciences*: Mathematics education.
- ANNE MORRIS, Ph.D. (Ohio State), *Assistant Professor*: Mathematics education.
- LUDWIG MOSBERG, Ph.D. (California, Los Angeles), *Associate Professor*: Language comprehension, learning from prose, and memory.
- FRANK B. MURRAY, Ph.D. (Johns Hopkins), *H. Rodney Sharp Professor; also H. Rodney Sharp Professor of Psychology*: Cognitive development, developmental theory, reading and mathematics.
- YASSER NAKIB, Ph.D. (Florida State), *Assistant Professor*: Economics and finance, educational policy and administration.
- RATNA NANDAKUMAR, Ph.D. (Illinois), *Associate Professor*: Educational statistics and measurements.
- CYNTHIA M. OKOLO, Ph.D. (Indiana), *Associate Professor*: Computer-assisted instruction, achievement motivation, and learning handicaps.
- JOHN J. PIKULSKI, Ph.D. (Temple), *Professor*: Reading.
- JAMES RATHS, Ph.D. (New York University), *Professor*: Teacher education, evaluation of educational programs.
- MARY F. ROE, Ph.D. (Illinois), *Associate Professor*: Language arts/reading.
- GAIL RYS, Ph.D. (Delaware), *Assistant Director and Assistant Professor*: Moral reasoning, gender and development issues.
- EUGENE R. SMOLEY, Ph.D. (Johns Hopkins), *Associate Professor*: Educational leadership.
- JOHN ST. JULIEN, Ph.D. (Louisiana State), *Assistant Professor*: Social studies and curriculum theory.
- ELAINE M. STOTKO, Ph.D. (Delaware), *Assistant Professor; also Senior Assistant Dean, College of Human Resources, Education and Public Policy*: Linguistics, English as a Second Language.
- ROBERT J. TAGGART, Ph.D. (Michigan), *Associate Professor*: History of education.
- RICHARD L. VENEZKY, Ph.D. (Stanford), *Unidel Professor; also Unidel Professor, Computer and Information Sciences and Unidel Professor, Linguistics*: Reading processes, assessment, history of literacy, and computers in education.
- HARLEEN VICKERS, Ph.D. (Delaware), *Assistant Professor*: Family-school issues and intervention.
- CAROL J. VUKELICH, Ph.D. (Southern Illinois), *Professor; also Professor, Individual and Family Studies, and Coordinator, Master of Instruction Program*: Early childhood education.
- RONALD J. VUKELICH, Ph.D. (Southern Illinois), *Associate Professor*: Special education, testing procedures for exceptional children, and assessment of learning in museum settings.
- DIANA WEARNE, Ph.D. (Wisconsin), *Associate Professor*: Mathematics education.
- JAMES A. WHITSON, Ph.D. (Rochester), *Associate Professor*: Social Studies.
- ELIZABETH WIER, Ph.D. (Delaware), *Assistant Professor*: Science education.

Joint and Adjunct Appointments

- Chemistry and Biochemistry*: KATHRYN C. SCANTLEBURY
- Continuing Education*: JAMES BROOMALL, RICHARD B. FISCHER.
- Dean of Students Office*: TIMOTHY F. BROOKS.
- Institutional Research and Planning*: MICHAEL F. MIDDAGH.
- Mathematical Sciences*: JINFANG CAI.
- Urban Affairs and Public Policy*: JEFFREY RAFFEL.

Hotel, Restaurant, and Institutional Management

- PAUL E. WISE, M.B.A. (Michigan State), *Professor and Chair*: Curriculum development in food and beverage management.
- RONALD P. COLE, M.S. (Rochester Institute of Technology), *Associate Policy Scientist and Assistant Professor*: Food and beverage management, distance learning.
- PAMELA R. CUMMINGS, Ph.D. (Oklahoma State), *Associate Professor*: Hotel management, leadership.

- JOSEPH DIGREGORIO, A.O.S. (Culinary Inst.), *Executive Chef and Lecturer*: Quantity foods.
- DEBORAH ELLINGSWORTH, B.A. (Delaware), *Executive Sous Chef and Instructor*: Food principles.
- FRANCIS A. KWANSA, Ph.D. (Virginia Tech), *Associate Professor*: Financial management, managerial accounting.
- JAMES A. LYNCH, M.B.A. (Delaware), *General Manager and Lecturer*: Quantity foods.
- JAMES A. MYERS, Ph.D. (Michigan State), *Assistant Professor*: Travel tourism, marketing.
- ROBERT R. NELSON, M.B.A. (Drexel), *Associate Policy Scientist and Assistant Professor*: Tourism development, food production, contracts.
- ALI A. POORANI, Ph.D. (U.S. International), *Associate Professor*: Human resources management, organizational leadership.
- PAUL J. SESTAK, B.S. (Drexel), *Associate Professor*: Hotel architecture, historic property restoration.
- PATRICIA WOODWARD, B.A. (Mercyhurst College), *Dining Room Manager*.

Individual and Family Studies

- KATHERINE CONWAY-TURNER, Ph.D. (Kansas), *Professor and Chair; also Professor, Psychology and Professor, Women's Studies*: Life span development, human sexuality, care-giving issues, gerontology, black family development.
- MARTHA J. BUELL, Ph.D. (North Carolina), *Assistant Professor*: Early childhood classroom quality and teacher professional development; work, family and college; and emergent literacy.
- JANE I. DAVIDSON, M.S. (Delaware), *Instructor; Preschool Staff Teacher*: Emergent literacy, dramatic play, early childhood curriculum.
- CLAYTONA J. DeCAPUA, M.Ed. (Penn State), *Assistant Professor*: Early childhood curriculum.
- PENNY L. DEINER, Ph.D. (Penn State), *Professor*: Young exceptional children, children and families in crisis, family interventions.
- NANCY J. EDWARDS, M.Ed. (Temple), *Instructor; Preschool Staff Teacher*.
- ALICE P. EYMAN, M.A. (Columbia), *Assistant Professor; also Director, University of Delaware Preschool Laboratory, and Coordinator, Student Teaching*.
- MICHAEL FERRARI, Ph.D. (Rutgers), *Associate Professor; also Associate Professor, Psychology*: Geriatric neuropsychology, brain injury, dementia research, rehabilitation.
- MICHAEL GAMEL-McCORMICK, Ph.D. (Virginia Commonwealth), *Associate Professor*: Early childhood development and education, intervention with special needs populations, qualitative analyses.
- TAMARA K. HAREVEN, Ph.D. (Ohio State), *Unidel Professor of Family Studies; also Professor, History*: Family and the life course, aging, work and family, family history, cross-cultural perspectives.
- NADINE T. HEIM, M.Ed. (Chestnut Hill), *Instructor; Preschool Staff Teacher*: Infants and toddlers.
- MARION C. HYSON, Ph.D. (Bryn Mawr), *Professor*: Early childhood education, early emotional development, policy issues in early care and education.
- DENE G. KLINZING, Ph.D. (Penn State), *Professor*: Hospitalized children, child development, communication.
- MARY LOU LIPRIE, Ph.D. (Ohio State), *Associate Professor*: Adolescent development, research methodology, family and consumer sciences education, adolescent nutrition and wellness.
- ROBIN J. PALKOVITZ, Ph.D. (Rutgers), *Professor*: Parental development, transitions to parenthood, father involvement in child rearing, life span development.
- DONALD L. PETERS, Ph.D. (Stanford), *Amy Rextrew Professor; also Professor, Urban Affairs and Public Policy*: Early childhood development, service program planning and evaluation.
- BARBARA H. SETTLES, Ph.D. (Ohio State), *Professor*: Quality issues in family care, family theory, family life education, interactive planning for family futures.

DANIEL D. SHADE, Ph.D. (North Carolina), *Associate Professor*: Children and technology, computers in early childhood education, technology and families, child development.

BAHIRA SHERIF, Ph.D. (University of Pennsylvania), *Assistant Professor*: Culturally diverse families, ethnicity and gender, intergenerational relations, women and employment.

DONALD G. UNGER, Ph.D. (South Carolina), *Associate Professor*; also *Graduate Program Coordinator*: Child and family therapy, pediatric psychology, teenage pregnancy, community support systems.

JULIE MAPES WILGEN, Ph.D. (Texas Tech), *Assistant Professor*; also *Coordinator*, *Undergraduate Advisement*: Human sexuality.

Joint and Adjunct Appointments

Center for Community Development and Family Policy: NORMA GAINES-HANKS.

Center for Counseling and Student Development: CHARLES L. BEALE, JOHN B. BISHOP, TIMOTHY F. BROOKS, EMILY F. CARTER, LESLIE ORYSH CONNOR, MARK D. KRAUTHEIM, JONATHAN D. LEWIS, SHARON L. MITCHELL, RICHARD S. SHARF, STUART J. SHARKEY, VIVIAN A. YAMADA.

Center for Teaching Effectiveness: JUDITH A. GREENE.

Food and Resource Economics: PATRICIA T. NELSON.

Sociology: SALLY BOULD.

Urban Affairs and Public Policy: KAREN CURTIS.

Urban Affairs and Public Policy

JEFFREY A. RAFFEL, Ph.D. (M.I.T.), *Professor and Director*, also *Professor*, *Political Science and International Relations*: Educational policy, policy analysis, urban management.

DAVID L. AMES, Ph.D. (Clark), *Professor*; also *Director*, *Center for Historic Architecture and Design*, and *Professor*, *Geography*: Historic preservation, urban geography, urban and regional planning.

MARIA P. ARISTIGUETA, Ph.D. (Southern California), *Assistant Professor*: Administrative behavior, performance measurement, policy analysis, strategic management.

DEBORAH A. AUGER, Ph.D. (M.I.T.), *Assistant Professor*; also *Assistant Professor*, *Political Science and International Relations*: Public policy and administration, non-profit management, state and local government, U.S. social policy.

TIMOTHY K. BARNEKOV, Ph.D. (Syracuse), *Professor*; also *Director*, *Urban Affairs and Public Policy Program and Director*, *Center for Community Development and Family Policy*: Urban neighborhoods, business and urban policy, economic development policy.

JOHN M. BYRNE, Ph.D. (Delaware), *Professor and Director*, *Center for Energy and Environmental Policy*; also *Professor*, *Marine Studies*: Technology and environment, environmental justice, political economy, sustainable development.

LESLIE COOKSY, Ph.D. (Cornell), *Assistant Professor*: Human service programs, program evaluation, qualitative and quantitative methods.

KAREN A. CURTIS, Ph.D. (Temple), *Associate Professor*; also *Associate Professor*, *Individual and Family Studies*: Non-profit leadership in voluntary sector, applied research and public policy analysis, qualitative methods, program evaluation and evaluation research.

KATHRYN G. DENHARDT, Ph.D. (Kansas), *Associate Professor*; also *Director*, *M.P.A. Program*: Collaborative decision making and conflict resolution, human resources management, ethics in public service.

ROBERT P. DENHARDT, Ph.D. (Kentucky), *Charles P. Messick Professor of Public Administration*: Public management, leadership development, organizational change.

JAMES P. FLYNN, Ed.D. (Delaware), *Assistant Professor*; also *Internship Director*: Personnel administration, quality improvement initiatives, educational governance, legislative management, professional development.

LANCE FREEMAN, Ph.D. (North Carolina), *Assistant Professor*: Regional and city planning, community and economic development, quantitative analysis, housing policy.

RAHEEMAH JABBAR-BEY, M.A. (New Hampshire College), *Instructor*: Community and economic development planning, organizational capacity building of non-profits, urban policy analysis.

ERIC D. JACOBSON, M.P.A. (Delaware), *Assistant Professor*; also *Assistant Director*, *Institute for Public Administration*: Public economics, health policy, employee compensation and benefits, tourism development.

JEROME R. LEWIS, Ph.D. (New York University), *Associate Professor and Director*, *Institute for Public Administration*; also *Associate Professor*, *Political Science and International Relations*: Public administration, personnel management, urban planning, political leadership.

G. ARNO LOESSNER, Ph.D. (Pennsylvania), *Assistant Professor*: Fiscal and resource management, non-profit management, international comparative governance.

STEVEN W. PEUQUET, Ph.D. (Pennsylvania), *Assistant Professor*: Strategic planning, housing, homelessness, electronic community networks, public policy analysis and evaluation.

EDWARD C. RATLEDGE, M.A. (Delaware), *Associate Professor and Director*, *Center for Applied Demography and Survey Research*: Management information systems, econometrics, criminal justice systems.

DANIEL RICH, Ph.D. (M.I.T.), *Professor and Dean of the College of Human Resources, Education and Public Policy*; also *Professor*, *Political Science and International Relations*: Urban policy, energy and technology policy.

REBECCA SIDERS, M.A. (Delaware), *Instructor*: Historic preservation planning, 19th century rural landscape, history of women and African Americans.

PAUL L. SOLANO, Ph.D. (Maryland), *Associate Professor*; also *Associate Professor*, *Political Science and International Relations*: Financial administration and public finance, political economy, health policy.

YOUNG-DOO WANG, Ph.D. (Delaware), *Associate Professor*: Energy and environmental policy, economic analysis of alternative energy options, econometric applications.

ROBERT WARREN, Ph.D. (California, Los Angeles), *Professor*; also *Professor*, *Political Science and International Relations*: Urban and regional government, telecommunications policy, urban planning and development.

MARGARET S. WILDER, Ph.D. (Michigan), *Professor*: Community development policy and organizations, economic development policy and planning, housing problems and policy, race, gender and economic mobility.

ROBERT A. WILSON, Ph.D. (Temple), *Associate Professor*; also *Associate Professor*, *Sociology*: Survey research, evaluation research, health services research.

DANILO YANICH, Ph.D. (Delaware), *Assistant Professor*: Criminal justice policy, media and public policy, international comparative governance.

Joint and Adjunct Appointments

Art Conservation: CHANDRA REEDY.

Art History: BERNARD L. HERMAN.

Black American Studies: JAMES E. NEWTON.

Consumer Studies: AUDREY L. HELFMAN, PAUL SESTAK.

Economics: WILLIAM R. LATHAM, III.

Food and Resource Economics: THOMAS W. ILVENTO, PATRICIA T. NELSON.

Geography: YDA SCHREUDER, APRIL R. VENESS.

Individual and Family Studies: TAMARA HAREVEN, DONALD L. PETERS.

Marine Studies: BILIANA CICIN-SAIN, WILLETT KEMPTON, ROBERT W. KNECHT.

Philosophy: PAUL T. DURBIN.

Political Science and International Relations: MARK W. HUDDLESTON, JANET B. JOHNSON, JOSEPH B. PIKA, HENRY T. REYNOLDS, RICHARD T. SYLVES.

Adjunct Faculty: STEVEN M. HOFFMAN, Ph.D. • AKLILU KIDANU, Ph.D. • JONG-DALL KIM, Ph.D. • CECILIA MARTINEZ, Ph.D. • LINDA WOLF, M.P.A., D.P.A. • BEVERLY YANICH, Ph.D.

COLLEGE OF MARINE STUDIES

- CAROLYN A. THOROUGHGOOD, Ph.D. (Maryland), *Associate Professor and Dean; also Director, Delaware Sea Grant College Program; also Associate Professor, Animal and Food Sciences*: Nutritional biochemistry of bivalve molluscs; nutritional evaluation and preservation of fish.
- NANCY M. TARGETT, Ph.D. (Maine), *Professor and Associate Dean*: Chemical/biological interactions in the marine environment; chemical ecology; antifouling mechanisms in marine organisms.
- LEE G. ANDERSON, Ph.D. (Washington), *Professor and Director, Marine Policy Program; also Professor, Economics*: Economics of commercial and recreations fisheries management.
- MOHSEN BADIEY, Ph.D. (Miami), *Associate Professor; also Associate Professor, Civil and Environmental Engineering*: Analytical and numerical modeling of geoacoustics and geophysics; seabed, laboratory and in-situ measurements related to seismo-acoustics problems.
- JOHN S. BOYER, Ph.D. (Duke), *E.I. du Pont Professor of Marine Biochemistry/Biophysics and Director, Marine Biology and Biochemistry Program; also Professor, Plant and Soil Sciences*: Water in the biochemistry and physiology of marine and terrestrial plants.
- S. CRAIG CARY, Ph.D. (Scripps Institute of Oceanography), *Associate Professor*: Comparative physiology, biochemistry and ecology of marine invertebrate/bacterial symbioses; molecular techniques to resolve biochemical interactions between host and symbiont.
- THOMAS M. CHURCH, Ph.D. (California, La Jolla), *Professor; also Professor, Chemistry and Biochemistry*: Estuarine and atmospheric geochemistry; trace-element marine chemistry.
- BILIANA CICIN-SAIN, Ph.D. (California, Los Angeles), *Professor and Codirector, Center for the Study of Marine Policy; also Professor, Political Science and International Relations and Professor, Urban Affairs and Public Policy*: U.S. ocean policy; management of multiple ocean and coastal uses; state/federal relations; fisheries management; comparative ocean policy.
- CHARLES H. CULBERSON, Ph.D. (Oregon State), *Research Scientist*: Physical chemistry and electrochemistry of seawater; mathematical modeling of estuarine chemical processes.
- STEPHEN C. DEXTER, Ph.D. (Delaware), *Professor; also Professor, Materials Science and Engineering*: Electrochemical corrosion; biologically influenced corrosion; structural materials in marine environments; bioadhesion.
- ANA I. DITTEL, Ph.D. (Delaware), *Associate Research Scientist*: Larval biology; recruitment dynamics; tropical biology.
- CHARLES E. EPIFANIO, Ph.D. (Duke), *Professor*: Larval ecology; tropical ecology.
- RICHARD T. FIELD, Ph.D. (Delaware), *Associate Research Scientist*: Application of remote sensing to land surface climate studies, microclimatology land surfaces.
- PATRICK M. GAFFNEY, Ph.D. (SUNY, Stony Brook), *Associate Professor*: Genetics of marine organisms; aquacultural genetics.
- JOHN L. GALLAGHER, Ph.D. (Delaware), *Professor*: Marine plant ecology, physiology, genetics, tissue culture, and economic development.
- RICHARD W. GARVINE, Ph.D. (Princeton), *M.P. and M.H. Harrington Professor of Marine Studies and Director, Physical Ocean Science and Engineering Program*: Physical oceanography of the coastal ocean and estuaries: observations and models.
- RONALD J. GIBBS, Ph.D. (Scripps Institution of Oceanography), *Professor and Director, Center for the Study of Colloidal Science; also Professor, Geology*: Geochemistry; sedimentology; clay mineralogy; environmental studies.
- I. PABLO HUQ, Ph.D. (Cambridge), *Associate Professor*: Turbulence in the environment; stratified flow phenomena; experimental fluid mechanics.
- DAVID A. HUTCHINS, Ph.D. (California, Santa Cruz), *Assistant Professor*: Effects of nutrient cycling on marine phytoplankton productivity, dynamics of pollutants within marine food web.
- WILLETT M. KEMPTON, Ph.D. (Texas, Austin), *Associate Professor; also Associate Professor, Urban Affairs and Public Policy*: Human dimensions of marine and environmental policy.

- DAVID L. KIRCHMAN, Ph.D. (Harvard), *M.P. and M.H. Harrington Professor*: Biochemical microbiology; marine microbial ecology; oceanography.
- VICTOR V. KLEMAS, Ph.D. (Technical University of Braunschweig), *Professor; also Director, Center for Remote Sensing; also Professor, Electrical and Computer Engineering and Professor, Geography*: Remote sensing of marine and coastal resources; environmental monitoring and data management; optical physics.
- ROBERT W. KNECHT, M.S. (Rhode Island), *Professor and Codirector of the Center for the Study of Marine Policy; also Professor, Political Science and International Relations and Professor, Urban Affairs and Public Policy*: Ocean and coastal management; ocean minerals; ocean policy; international ocean and environmental law.
- GEORGE W. LUTHER, III, Ph.D. (Pittsburgh), *Professor; also Professor, Chemistry and Biochemistry and Professor, Civil and Environmental Engineering*: Marine chemistry; element redox cycles; inorganic and organic sulfur cycling.
- GERARD J. MANGONE, Ph.D. (Harvard), *University Research Professor*: Maritime and international law; shipping, ports, marine minerals policies.
- DOUGLAS C. MILLER, Ph.D. (Washington), *Associate Professor and Director, Oceanography Program*: Deposit-feeding strategies; trophic interactions among organisms; organism-flow-sediment interactions.
- GEORGE R. PARSONS, Ph.D. (Wisconsin), *Associate Professor; also Associate Professor, Economics*: Environmental and natural resource economics; coastal zone management.
- DENISE M. SELISKAR, Ph.D. (Delaware), *Research Scientist*: Dune and wetland plant physiological ecology; tissue culture of dune plants.
- JONATHAN H. SHARP, Ph.D. (Dalhousie), *Professor*: Marine organic chemistry; phytoplankton physiology; estuarine and coastal biological chemistry.
- TIMOTHY E. TARGETT, Ph.D. (Maine), *Associate Professor*: Ecology of estuarine and coastal marine fishes; physiological ecology of feeding, digestion, growth; trophic biology; energetics.
- THEODORE D. TOMASI, Ph.D. (Michigan), *Research Scientist*: Natural resource and environmental economics, valuing environmental goods, growth and sustainability, nonpoint pollution.
- WILLIAM J. ULLMAN, Ph.D. (Chicago), *Associate Professor; also Associate Professor, Geology*: Geochemical cycles; rock/water interactions; coastal, estuarine, and nearshore processes.
- FERRIS WEBSTER, Ph.D. (M.I.T.), *Professor*: The role of the ocean in climate variability; oceanographic data processing.
- KUO-CHUIN WONG, Ph.D. (SUNY, Stony Brook), *Professor*: Physical oceanography; estuarine and coastal dynamics; time series analysis.
- XIAO-HAI YAN, Ph.D. (SUNY, Stony Brook), *Professor*: Satellite oceanography; remote sensing modeling and prediction of air-sea exchange, mixed layer, wind, heat flux and ocean circulation; image processing.

Joint and Adjunct Appointments

Biological Sciences: MALCOLM H. TAYLOR.

Civil and Environmental Engineering: HERBERT E. ALLEN, ALEXANDER H-D. CHENG, ROBERT A. DALRYMPLE, C.P. HUANG, JAMES T. KIRBY, NOBUHISA KOBAYASHI, IB A. SVENDSEN.

Economics: RICHARD J. AGNELLO.

Electrical and Computer Engineering: GONZALO R. ARCE, CHARLES S. IH.

Entomology and Applied Ecology: PAMELA T. PLOTKIN.

Geography: TRACY L. DELIBERTY, CORT J. WILLMOTT.

Geology: BILLY P. GLASS, JOHN C. KRAFT, JOHN A. MADSEN, RONALD E. MARTIN, SUSAN McGEARY, JOHN F. WEHMILLER.

Mechanical Engineering: JACK R. VINSON.

Political Science and International Relations: JAMES K. OLIVER, RICHARD T. SYLVES.

Philosophy: NANCY McCAGNEY.

University Parallel Program: LAWRENCE A. CURTIS.

Urban Affairs and Public Policy: JOHN M. BYRNE.

Adjunct Faculty: JOHN R. APEL, Ph.D. • ROBERT B. BIGGS, Ph.D. • RICHARD B. COFFIN, Ph.D. • MICHAEL D. COLLINS, Ph.D. • JAMES CREASE • ROBERT G. DEAN, Sc.D. • MARILYN L. FOGEL, Ph.D. • RICHARD J. GEIDER, Ph.D. • PAUL A. GREY, Ph.D. • NORDEN E. HUANG, Ph.D. • TIMOTHY D. JICKELS, Ph.D. • ANTHONY H. KNAP, Ph.D. • DAVID E. KRANTZ, Ph.D. • KAMLESH LULLA, Ph.D. • EVELYN M. MAURMEYER, Ph.D. • WILLIAM H. MEREDITH, Ph.D. • TAVIT O. NAJARIAN, Ph.D. • DONALD B. NUZZIO, Ph.D. • JAMES C. PIERCE, Ph.D. • JAMES W. ROTTMAN, Ph.D. • MANMOHAN SARIN, Ph.D. • WILLIAM G. SUNDA • ALAIN J. VERON, Ph.D. • J. HERBERT WAITE, Ph.D. • PAUL L. WOLF, Ph.D.

FACULTY EMERITI

- EDWARD P. ALEXANDER, Ph.D. (Columbia), *Professor Emeritus of Museum Studies.*
- LEROY BANKS ALLEN, Ph.D. (Chicago), *Professor Emeritus of Education.*
- MARGARET P. ALLEN, M.F.A. (Washington), *Associate Professor Emerita of Art.*
- VAL E. ARNSDORF, Ph.D. (Minnesota), *Professor Emeritus of Education.*
- GEORGE BASALLA, Ph.D. (Harvard), *Professor Emeritus of History.*
- WILLARD E. BAXTER, Ph.D. (Pennsylvania), *Professor Emeritus of Mathematical Sciences.*
- JOHN J. BEER, Ph.D. (Illinois), *Associate Professor Emeritus of History; also Associate Professor Emeritus of Chemistry.*
- A. LEROY BENNETT, Ph.D. (Illinois), *Professor Emeritus of Political Science and International Relations.*
- WILLIAM J. BENTON, D.V.M., Ph.D. (Delaware), *Professor Emeritus of Animal and Food Sciences.*
- OLAF P. BERGELIN, Sc.D. (Michigan), *Professor Emeritus of Chemical Engineering.*
- CATHERINE V. BIEBER, M.S. (Delaware), *Professor Emerita of Human Resources.*
- DANIEL P. BIEBUYCK, (State University, Ghent, Belgium), *H. Rodney Sharp Professor Emeritus of Anthropology and Humanities.*
- S. ALEXANDER BILLON, Ph.D. (Michigan State), *Professor Emeritus of Business Administration.*
- KENNETH B. BISCHOFF, Ph.D. (Illinois Institute of Technology), *Unidel Professor Emeritus of Biomedical and Chemical Engineering.*
- KARL W. BÖER, Ph.D. (Humboldt), *Distinguished Professor Emeritus of Physics and Solar Energy.*
- ELAINE BOETTCHER, M.S. (Delaware), *Associate Professor Emerita of Nursing.*
- ELIZABETH L. BOHNING, Ph.D. (Bryn Mawr), *Professor Emerita of Foreign Languages and Literatures.*
- L. PAUL BOLGIANO, JR., Ph.D. (Johns Hopkins), *Professor Emeritus of Electrical and Computer Engineering.*
- ELLIS T. BOLTON, Ph.D. (Rutgers), *Carnegie Institution of Washington Professor Emeritus of the College of Marine Studies.*
- GORDON R. BONNER, Ph.D. (Syracuse), *Associate Professor Emeritus of Finance.*
- ROBERT L. BOORD, Ph.D. (Maryland), *Professor Emeritus of Biological Sciences.*
- WILLIAM W. BOYER, JR., Ph.D. (Wisconsin), *Charles P. Messick Professor Emeritus of Political Science and International Relations.*
- EUGENE P. BRASHER, Sc.D. (Missouri Valley), *Professor Emeritus of Plant and Soil Sciences.*
- DALE F. BRAY, Ph.D. (Rutgers), *Professor Emeritus of Entomology and Applied Ecology.*
- THOMAS W. BROCKENBROUGH, S.M. (MIT), *Professor Emeritus of Civil and Environmental Engineering.*
- JOHN A. BROWN, Ph.D. (Wisconsin), *Professor Emeritus of Education.*
- PAUL P. BURBUTIS, Ph.D. (Rutgers), *Professor Emeritus of Entomology and Applied Ecology.*
- HENRY L. CADY, Ph.D. (Kansas), *Professor Emeritus of Music.*
- MELBOURNE R. CARRIKER, Ph.D. (Wisconsin), *Professor Emeritus of the College of Marine Studies.*
- SHIRLEY A. CARTER, Ed.D. (Temple), *Associate Professor Emerita of Nursing.*
- EUGENE CRESSON, JR., Ph.D. (Illinois), *Professor Emeritus of Civil and Environmental Engineering.*
- ANNE W. CLARK, M.S. (Delaware), *Associate Professor Emerita of Medical Technology.*
- ARNOLD M. CLARK, Ph.D. (Pennsylvania), *Professor Emeritus of Biological Sciences.*
- ELIZABETH D. CLOUD, M.S. (Pennsylvania), *Associate Professor Emerita of Nursing.*
- GERALD L. COLE, Ph.D. (Michigan State), *Professor Emeritus of Food and Resource Economics.*
- CHARLES B. COOPER, Ph.D. (Maryland), *Professor Emeritus of Physics and Astronomy.*
- MAURICE E. COPE, Ph.D. (Chicago), *Professor Emeritus of Art History.*
- RENE COULET DU GARD, D.D. (Besançon, France), *Professor Emeritus of Foreign Languages and Literatures.*
- E. WAYNE CRAVEN, Ph.D. (Columbia), *H.F. du Pont Professor Emeritus of Art History.*
- HENRY W. CRITTENDEN, Ph.D. (Ohio State), *Professor Emeritus of Plant and Soil Sciences.*
- DONALD F. CROSSAN, Ph.D. (North Carolina State), *Professor Emeritus of Plant and Soil Sciences.*
- GERALD R. CULLEY, Ph.D. (North Carolina), *Associate Professor Emeritus of Foreign Languages and Literatures; also Associate Professor Emeritus of Comparative Literature.*
- J. BARRY CULLINGWORTH, MRTPI, FRSA, *Unidel Professor Emeritus of Urban Affairs and Public Policy; also Professor Emeritus of Geography.*
- PAUL A. CUNDIFF, Ph.D. (Cornell), *H. Rodney Sharp Professor Emeritus of English.*
- JULIO DA CUNHA, M.F.A. (Cranbrook Academy of Fine Arts), *Professor Emeritus of Art; also Professor Emeritus, University Honors Program.*
- FRANKLIN C. DAIBER, Ph.D. (Ohio State), *Professor Emeritus of the College of Marine Studies; also Professor Emeritus of Biological Sciences.*
- JAMES E. DANBERG, Ph.D. (Catholic University of America), *Professor Emeritus of Mechanical Engineering.*
- HILDA DAVIS, Ph.D. (Chicago), *Lecturer Emerita of English.*
- JOHN M. DAWSON, Ph.D. (Chicago), *Professor Emeritus, Library.*
- ANNA JANNEY DEARMOND, Ph.D. (Pennsylvania), *Professor Emerita of English.*
- ANNA LEE DEHAVEN, Ph.D. (Maryland), *Professor Emerita of Nursing.*
- CHARLES W. DUNHAM, Ph.D. (Michigan State), *Professor Emeritus of Plant and Soil Sciences.*
- RUSSELL R. DYNES, Ph.D. (Ohio State), *Professor Emeritus of Sociology and Criminal Justice.*
- MARY ANNE EARLY, M.S. (Pennsylvania), *Associate Professor Emerita of Nursing.*
- ROBERT M. EISENBERG, Ph.D. (Michigan), *Associate Professor Emeritus of Biological Sciences.*
- JOACHIM G. ELTERICH, Ph.D. (Michigan State), *Professor Emeritus of Food and Resource Economics.*
- EDWARD A. FAGEN, Ph.D. (Pittsburgh), *Associate Professor Emeritus of Electrical and Computer Engineering.*
- SYLVIA FARNHAM-DIGGORY, Ph.D. (Pennsylvania), *H. Rodney Sharp Professor Emerita of Education.*
- EUGENE S. FERGUSON, M.S. (Iowa State), *Professor Emeritus of History.*
- WILLARD ALLEN FLETCHER, Ph.D. (Pennsylvania), *Professor Emeritus of History.*
- RICHARD E. FOWLER, Ph.D. (Maryland), *Associate Professor Emeritus of Animal and Food Sciences.*

- MILDRED M. GADDIS, M.A. (Columbia), *Associate Professor Emerita of Music.*
- ANTHONY F. GAUDY, JR., Ph.D. (Illinois), *H. Rodney Sharp Professor Emeritus of Civil and Environmental Engineering.*
- REED GEIGER, Ph.D. (Minnesota), *Professor Emeritus of History.*
- EDELTRAUT GILGENAST, M.A. (Middlebury), *Assistant Professor Emerita of Foreign Languages and Literatures.*
- HELEN GOULDNER, Ph.D. (California), *Professor Emerita of Sociology and Criminal Justice.*
- FRANCES K. GRAHAM, Ph.D. (Yale), *Professor Emerita of Psychology.*
- ALLEN M. GRANDA, Ph.D. (Brown), *Professor Emeritus of Biological Sciences.*
- IRWIN G. GREENFIELD, Ph.D. (Pennsylvania), *Unidel Professor Emeritus of Engineering.*
- JOHAN J. GROOT, Ph.D. (Amsterdam), *Professor Emeritus of Delaware Geological Survey and Geology.*
- HOWARD H. HARLAN, Ph.D. (Virginia), *Professor Emeritus of Sociology and Criminal Justice.*
- ROBERT N. HILL, Ph.D. (Yale), *Professor Emeritus of Physics and Astronomy.*
- SVEND E. HOLSOE, Ph.D. (Boston University), *Associate Professor Emeritus of Anthropology.*
- HARRY D. HUTCHINSON, Ph.D. (Michigan), *Professor Emeritus of Economics.*
- JAMES C. KAKAVAS, Ph.D. (Yale), *Professor Emeritus of Biological Sciences.*
- CHARLES ROBERT KASE, Ph.D. (New York University), *Professor Emeritus of Theatre.*
- JOYCE L. KEE, M.S. (Maryland), *Associate Professor Emerita of Nursing.*
- DOROTHY A. KENNEDY, M.A. (Columbia), *Associate Professor Emerita of Nursing.*
- ROBERT W. KEOWN, Ph.D. (Louisville), *Professor Emeritus of Animal and Food Sciences.*
- WALTER KIRCHNER, Ph.D. (California, Los Angeles), *H. Rodney Sharp Professor Emeritus of History.*
- JOHN J. KRAMER, Ph.D. (Carnegie Institute of Technology), *Professor Emeritus of Electrical and Computer Engineering.*
- JAMES R. KRUM, D.B.A. (Michigan State), *Professor Emeritus of Business Administration.*
- HENRY N. LEE, JR., M.A. (Columbia), *Associate Professor Emeritus of Music.*
- CHARLES M. LESLIE, Ph.D. (Chicago), *Professor Emeritus, College of Arts and Science.*
- BERTRAM LEVIN, Ph.D. (Wisconsin), *Professor Emeritus of Economics.*
- RICHARD J. LIBERA, Ph.D. (Rutgers), *Professor Emeritus of Mathematical Sciences.*
- TAI LIU, Ph.D. (Indiana), *Professor Emeritus of History.*
- LOUISE LITTLE, Ph.D. (Wisconsin), *Associate Professor Emerita of Nutrition and Dietetics.*
- STEPHEN LUKASHEVICH, Ph.D. (California, Berkeley), *Professor Emeritus of History.*
- EDWARD LURIE, Ph.D. (Northwestern), *Professor Emeritus of History.*
- ALBERT JON MAGOON, Ph.D. (Pittsburgh), *Associate Professor Emeritus of Education.*
- WILLIAM MARKELL, Ed.D. (Columbia), C.P.A., *Arthur Andersen Professor Emeritus of Accounting.*
- CHARLES D. MARLER, Ph.D. (Stanford), *Associate Professor Emeritus of Education.*
- JOHN R. MATHER, Ph.D. (Johns Hopkins), *Professor Emeritus of Geography.*
- WALLACE H. MAW, Ed.D. (Cincinnati), *Professor Emeritus of Individual and Family Studies.*
- ANNE A. McCOURT-LEWIS, Ph.D. (Syracuse), *Associate Professor Emerita of Education.*
- WALLACE H. McCURDY, JR., Ph.D. (Illinois), *Associate Professor Emeritus of Chemistry and Biochemistry.*
- JOHN D. MEAKIN, Ph.D. (Leeds), *Professor Emeritus of Mechanical Engineering.*
- THOMAS F. MERRILL, Ph.D. (Wisconsin), *Professor Emeritus of English.*
- ARTHUR B. METZNER, Sc.D. (M.I.T.), *H. Fletcher Brown Professor Emeritus of Chemical Engineering.*
- JOHN H. MILLER III, Ph.D. (Princeton), *Associate Professor Emeritus of Physics and Astronomy.*
- WILLIAM H. MITCHELL, Ph.D. (Penn State), *Professor Emeritus of Plant and Soil Sciences.*
- JAMES A. MOORE, Ph.D. (Pennsylvania), *Professor Emeritus of Chemistry and Biochemistry.*
- ALLEN L. MOREHART, Ph.D. (Delaware), *Professor Emeritus of Plant and Soil Sciences.*
- DOROTHY MOSER, M.Ed. (Columbia), *Associate Professor Emerita of Nursing.*
- JOHN A. MUNROE, Ph.D. (Pennsylvania), *H. Rodney Sharp Professor Emeritus of History.*
- LILA C. MURPHY, Ph.D. (Ohio State), *Professor Emerita of Individual and Family Studies.*
- RICHARD B. MURRAY, Ph.D. (Tennessee), *Professor Emeritus of Physics and Astronomy.*
- DANIEL C. NEALE, Ph.D. (Minnesota), *Professor Emeritus of Education.*
- ROBERT L. NICHOLLS, Ph.D. (Iowa State), *Professor Emeritus of Civil and Environmental Engineering.*
- EDWARD A. NICKERSON, Ph.D. (SUNY, Albany), *Professor Emeritus of English.*
- JERZY L. NOWINSKI, Ph.D. (London), *H. Fletcher Brown Professor Emeritus of Mechanical Engineering.*
- EDWARD J. PELLICCIARO, Ph.D. (North Carolina), *Professor Emeritus of Mathematical Sciences.*
- JANET J. PHOLERIC, M.Ed. (Temple), *Associate Professor Emerita of Health and Exercise Sciences.*
- NATHANIEL H. PUFFER, M.A. (Denver), *Assistant Director of Libraries Emeritus.*
- E.L. QUARANTELLI, Ph.D. (Chicago), *Professor Emeritus of Sociology and Criminal Justice.*
- ARLETTE I. RASMUSSEN, Ph.D. (Wisconsin), *Associate Professor Emerita of Nutrition and Dietetics.*
- RUSSELL REMAGE, JR., Ph.D. (Pennsylvania), *Professor Emeritus of Mathematical Sciences.*
- DAVID M. ROBINSON, Ph.D. (Delaware), *Professor Emeritus of Electrical and Computer Engineering.*
- EDWARD H. ROSENBERRY, Ph.D. (Pennsylvania), *Professor Emeritus of English.*
- BILLY E. ROSS, Ed.D. (Tennessee), *Professor Emeritus of Education.*
- CHARLES A. ROWE, M.F.A. (Tyler School of Art), *Professor Emeritus of Art.*
- JOANNE RYAN, Ph.D. (Pennsylvania), *Associate Professor Emerita of Nursing.*
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