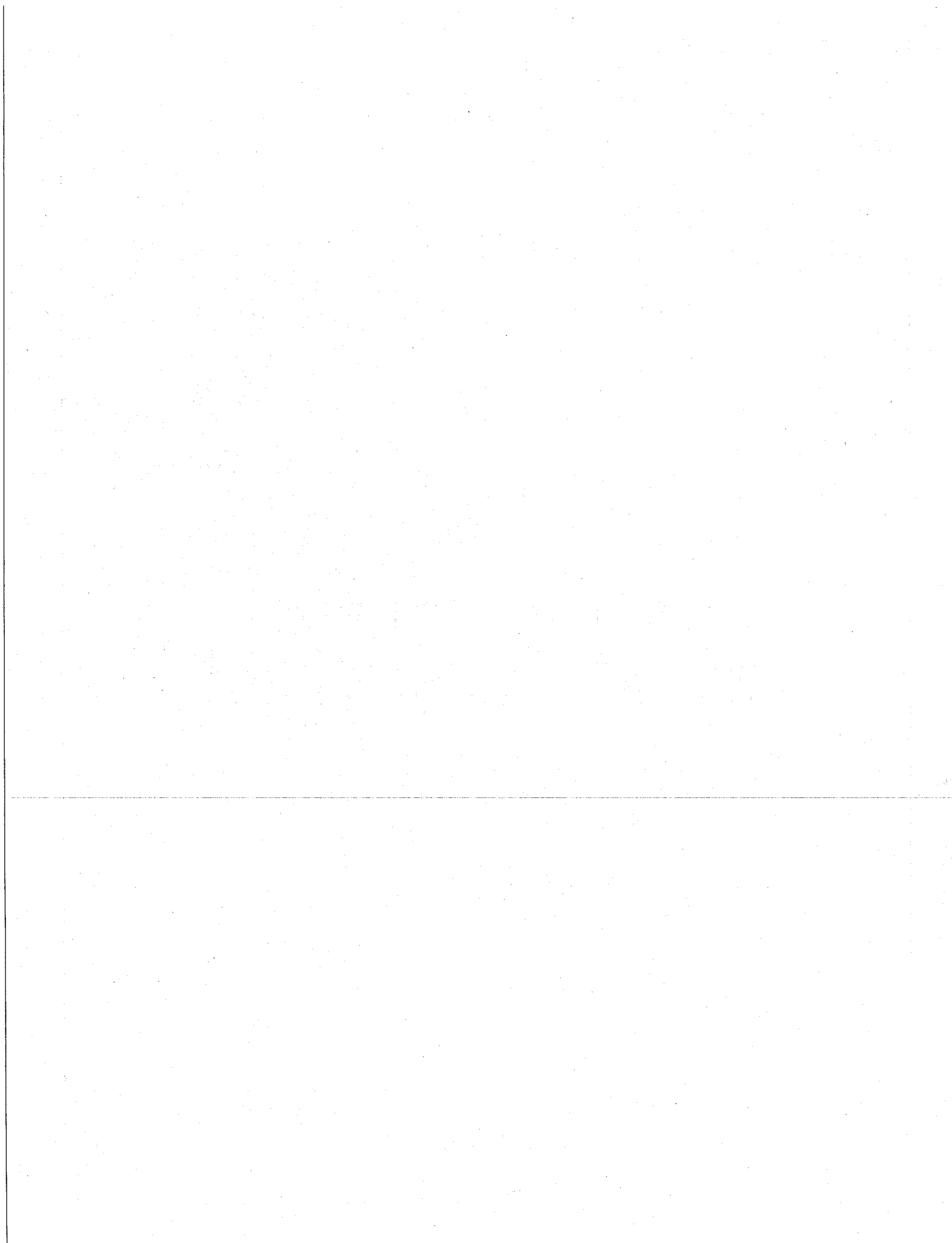




UNIVERSITY OF DELAWARE
UNIVERSITY PERSONNEL
2000-2001





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* *Trustee Emeritus*

** *Gubernatorial Appointment*

THE UNIVERSITY STAFF

Officers of the University Administration

DAVID P. ROSELLE, Ph.D. (Duke),
President; also Professor of Mathematics
MELVYN D. SCHIAVELLI, Ph.D. (California, Berkeley),
Provost; also Professor, Chemistry and Biochemistry
DAVID E. HOLLOWELL, M.B.A. (Boston),
Executive Vice President
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Vice President for Administration
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Vice President for Information Technologies
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Vice President and University Treasurer
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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.*
 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.*

Adjunct Appointment

Adjunct Faculty: ARBA HENRY, Ed.D.

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), *Professor; also 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.*
 BRIAN S. LADMAN, M.S. (Delaware), *Research Associate II.*
 JAMES A. MAAS, Ph.D. (Guelph), *Assistant Professor: Ruminant nutritional physiology.*
 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.*
 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: Monogastric nutrition.*
 CARL J. SCHMIDT, Ph.D. (Johns Hopkins), *Assistant Professor: Genomics.*
 ADRIENNE E. SHEARER, M.S. (Delaware), *Research Associate II.*
 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.*
 KATHLEEN SPLANE, B.S. (Delaware), *Extension Associate I.*
 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.
Delaware Biotechnology Institute: DAVID S. WEIR, Ph.D.
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.; • JAMES E. WOHLT, 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.
- JACOB L. BOWMAN, Ph.D. (Mississippi State), *Instructor*: Wildlife ecology, conservation, habitat management, mammalogy.
- DEWEY M. CARON, Ph.D. (Cornell), *Professor*: Apiology, insect behavior and general entomology.
- CHRISTOPHER B. GOGUEN, Ph.D. (Wisconsin), *Instructor*: Avian ecology, wildlife conservation.
- 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.
- 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

- THOMAS W. ILVENTO, Ph.D. (Penn State), *Associate Professor and Acting Chair*: Rural sociology and community economic development.
- 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.
- JOHN C. BERNARD, Ph.D. (Cornell), *Assistant Professor*: Experimental economics.
- 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.
- PAUL P. EGGERMONT, Ph.D. (SUNY, Buffalo), *Associate Professor; also Associate Professor, Computer and Information Sciences and Associate Professor, Mathematical Sciences*: Numerical analysis, integral equations and image reconstruction.
- CONRADO M. GEMPESAW II, Ph.D. (Penn State), *Professor; also Professor, Economics; also Vice Provost for Academic Programs and Planning*: Production economics, agricultural finance, and statistics.
- 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.
- VINCENT N. LARICCIA, Ph.D. (Texas A&M), *Associate Professor; also Professor, Mathematical Sciences*: Mathematical statistics.
- JOHN E.A. MACKENZIE, Ph.D. (Rhode Island), *Associate Professor*: Resource economics, GIS, and land use.
- SCOTT A. MALCOLM, Ph.D. (Pennsylvania), *Assistant Professor*: Operations research and production systems.
- DAVID M. MASON, Ph.D. (Washington), *Professor; also, Mathematical Sciences*: Probability and statistics.
- 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.
- LIDIA REJTO, Ph.D. (E. Lorand University), *Associate Professor; also Associate Professor, Mathematical Sciences*: Probability and 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*.

GREGORY BINFORD, Ph.D. (Iowa State), *Assistant Professor*: Soil and water quality.

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*.

DAVID HANSEN, Ph.D. (Iowa State), *Assistant Professor*: Soil and water quality.

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.

CAROL KRAWCZYK, A.S.L.A. (Virginia), *Assistant Professor*: Landscape 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.

JANINE SHERRIER, Ph.D. (Texas A&M), *Assistant Professor*: Plant biochemistry and plant microbe interactions.

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 UNIAOWSKI, 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*.

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.; • J. ANTONI RAFALSKI, Ph.D.; • HAJIME SAKAI, Ph.D.

COLLEGE OF ARTS AND SCIENCE

Office of the Dean

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

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), *Assistant Dean*.

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, Ed.D. (Delaware), *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), *Administrative Academic Advisor.*

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), *Professor: Printmaking.*
 LARRY W. HOLMES, M.F.A. (Cranbrook Academy of Fine Arts), *Professor: Painting.*
 MICHAEL JOHNSON, M.F.A. (Cincinnati), *Assistant Professor: Sculpture.*
 VERA E. KAMINSKI, M.F.A. (Maryland Institute College of Art), *Associate Professor: 3D Design.*
 ROSEMARY LANE, M.F.A. (Oregon) *Professor: Printmaking.*
 RENÉ 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 Professor, Museum Studies and Professor, History and Art History.*
 HILTON BROWN, M.F.A. (Art Institute of Chicago), *Harriet T. Baily 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; • 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.*
 H. PERRY CHAPMAN, Ph.D. (Princeton), *Professor: Baroque art, especially seventeenth-century Dutch painting.*
 JODI HAUTPMAN, 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.*
 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.*
 DAVID M. STONE, Ph.D. (Harvard), *Associate Professor: Italian Baroque art.*

Joint and Adjunct Appointments

Art Conservation: HILTON BROWN.
Museum Studies: BRYANT F. TOLLES, JR.

Biological Sciences

DANIEL CARSON, Ph.D. (Temple), *Professor and Chair: Extracellular matrix structure and function.*
 NORMAN J. KARIN, Ph.D. (Tennessee), *Associate Professor and Graduate Programs Director: Cell biology and cell physiology.*
 DEBORAH E. ALLEN, Ph.D. (Delaware), *Associate Professor and Undergraduate Programs Director: Science education.*
 JOE BERNARDO, Ph.D. (Duke), *Assistant Professor: 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.*
 KIRK CZYMMEK, Ph.D. (Michigan State), *Laboratory Coordinator.*
 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),
Professor: Calcium channels in bone.

STEVEN J. FIFIELD, Ph.D. (Minnesota), *Assistant Professor: Biology education, science studies.*

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.*

ERIC B. KMIEC, Ph.D. (Florida), *Associate Professor: Molecular biology and genetics, gene therapy.*

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.*

DARREN OKIMOTO, Ph.D. (Delaware), *Assistant Professor:*

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.*

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

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; also Coordinator, Medical Scholars Program: Cell biology.*

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

Joint Appointments

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

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

Marine Studies: NANCY TARGETT.

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

Plant and Soil Sciences: BERTRAND LEMIEUX, ALLEN SHAPIRO.

University Parallel Program: LAWRENCE A. CURTIS, 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.*

CHARLES G. RIORDAN, Ph.D. (Texas A&M), *Associate Professor and Assistant Chair for Graduate Studies: Inorganic 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.*

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

YONG DUAN, Ph.D. (Pittsburgh), *Assistant 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.*

MURRAY V. JOHNSTON, Ph.D. (Wisconsin-Madison), *Professor: Analytical chemistry.*

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.*

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.*

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.*

JOEL P. SCHNEIDER, Ph.D. (Texas A&M), *Assistant Professor: 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.

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 psychoology, 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 MCLAUGHLIN, 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), *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*.

SCOTT E. CAPLAN, Ph.D. (Purdue), *Assistant Professor*: Interpersonal communication and quantitative research methodology.

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.

JENNIFER L. LAMBE, Ph.D. (Minnesota), *Assistant Professor*: Mass communication, television production, communication law and ethics.

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

- JUDY P. McINNIS, 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*.
- ANNY D. CURTIUS, Ph.D. (Montreal), *Assistant Professor*; also *Assistant Professor, Foreign Languages and Literatures*.
- NICOLAS P. GROSS, Ph.D. (North Carolina), *Associate Professor*; also *Associate Professor, Foreign Languages and Literatures*.
- JAY L. HALIO, Ph.D. (Yale), *Professor*; also *Professor, English and Theatre*.
- ELLEN I. PIFER, Ph.D., (California, Berkeley), *Professor*; also *Professor, English*.
- DEBORAH B. STEINBERGER, Ph.D. (New York), *Assistant Professor*; also *Assistant Professor, Foreign Languages and Literatures*.
- 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 E. 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), *Professor*; also *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), *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 H. WOOD, Ph.D. (Rhode Island), *Research Associate Professor*: Computer algebra, analysis of algorithms.

Joint and Adjunct 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.
Adjunct Faculty: JOHN K. SCOGGIN, JR., Ph.D.

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), *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*.
- FLEDA BROWN, Ph.D. (Arkansas), *Professor*: Poetry and English education.
- MARTIN BRUECKNER, Ph.D. (Brandeis), *Assistant Professor*: Colonial American literature.
- 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.
- JOAN DeFATTORE, Ph.D. (Penn State), *Professor*: Literature and pedagogy.
- PETER FENG, Ph.D. (Iowa), *Assistant Professor*: Asian-American film.
- PHILIP D. FLYNN, Ph.D. (Maryland), *Professor*: Romantic literature.
- MARIA FRAWLEY, Ph.D. (Delaware), *Associate Professor*: Nineteenth-century 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.

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), *Professor*: Modern literature.

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

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

McKAY JENKINS, Ph.D. (Princeton), *Associate Professor*: Journalism, African-American literature, literature of the land.

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*: Journalism, film.

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; also Director of Graduate Studies in English*: Irish literature, feminist theory, modern literature.

A. TIMOTHY SPAULDING, Ph.D. (North Carolina), *Assistant Professor*: African-American 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*: Journalism, non-fiction writing, twentieth-century American culture and literature.

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

Joint and Adjunct Appointments

Biological Sciences: RIVERS SINGLETON.

Communication: RALPH BEGLEITER • JULIET DEE.

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.

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-JOERG 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.

ANNY D. CURTIUS, Ph.D. (Montreal), *Assistant Professor*: French and comparative literature.

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; also Coordinator, Comparative Literature*: Spanish and comparative literature.

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

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

KRYSTYNA 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.
 DAVID R. LEGATES, Ph.D. (Delaware), *Associate Professor*: Hydroclimatology, precipitation and climate change, computational methods.
 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. WEHMLER, 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*: 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.
 ERICA R. ARMSTRONG, Ph.D. (Columbia), *Assistant Professor*: African-American history, women's history, 19th-century U.S. History.
 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. history.
 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. DÜGGAN, 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.

- BARRY JOYCE, Ph.D. (California, Riverside), *Assistant Professor; also Coordinator, Social Studies Teacher Education Program: Ethnic studies, the west, Native Americans.*
- 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.*
- 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.*
- JOHNATHAN RUSS, Ph.D. (Delaware), *Assistant Professor: 20th-century U.S. history, U.S.-east Asian relations.*
- 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.*
- SUSAN STRASSER, Ph.D. (SUNY Stony Brook), *Professor: American industrialization, U.S. social and cultural history since 1873, U.S. business history.*
- BRYANT F. TOLLES, JR., Ph.D. (Boston), *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.*
- ANNE COLWELL, Ph.D. (Delaware), *Associate 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. (Wisconsin), *Associate Professor, Biological Sciences.*

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, Hebrew, 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: Phonology, phonetics, morphology.*
- COLIN PHILLIPS, Ph.D. (M.I.T.), *Assistant Professor; also Director, Graduate Studies in Linguistics: 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; also Director, Undergraduate Studies in Linguistics: 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.
- 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), *Associate 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.*

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.*

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.*

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

PETER B. MONK, Ph.D. (Rutgers), *UNIDEL Professor: 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.*

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

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

RENAME 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.

Food and Resource Economics: PAUL P. EGGERMONT, VINCENT N. LaRICCIA, DAVID M. MASON, LIDIA REJTO.

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.*

WILLIAM BARTON, *Master Sergeant, United States Army; Instructor.*

FRANK BESAW, *Sergeant First Class, United States Army; Instructor.*

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

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

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.*

JOSEPH SAUNDERS, *United States Army Civilian; Personnel Administrative Management.*

TERRY SCOTT, *Staff Sergeant, United States Army; Personnel Administrative Supervisor.*

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

Museum Studies

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

J. RITCHIE GARRISON, Ph.D. (Pennsylvania), *Associate Director and Associate Professor; 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 management.*

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), *Associate Professor: Voice and opera workshop.*

J. MICHAEL FOSTER, M.A. (Virginia), *Music Resources Supervisor: Jazz history, bibliography.*

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

ALAN D. HAMANT, M.M. (Kansas), *Associate Professor: Trumpet.*
 DONALD J. HILDEBRANDT, D.M. (Indiana), *Professor: Low brass.*
 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: Accompanying.*
 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*
 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 psychobiology, 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.*
 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.*
 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.*
 ROBIN O. ANDREASEN, Ph.D. (Wisconsin), *Assistant Professor: Philosophy of biology, philosophy of science, gender/race studies.*
 CHRISTOPHER BOORSE, Ph.D. (Princeton), *Associate Professor: Philosophy of medicine, ethics.*
 ROBERT F. BROWN, Ph.D. (Columbia), *Professor: Philosophy of religion, 19th century philosophy.*
 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.*
 JEFFREY J. JORDAN, Ph.D. (Purdue), *Associate Professor: Philosophy of religion.*
 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), *Associate 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.*
 JAMES C. GALLOWAY, Ph.D., P.T. (Arizona), *Assistant Professor: Development of infant motor behaviors.*
 STACIE LARKIN, M.Ed., P.T. (Boston University), *Academic Coordinator of Clinical Education.*
 JOSEPH A. LUCCA, Ph.D., P.T. (Delaware), *Associate Professor: Health care delivery systems for the elderly.*
 TARA JO MANAL, M.P.T., O.C.S. (Delaware), *Director of Physical Therapy Clinic.*
 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.*
 KATHERINE RUDOLPH, Ph.D., P.T. (Delaware), *Assistant Professor: EMG to characterize movement strategies.*
 JOHN SCHOLZ, Ph.D., P.T. (Connecticut), *Associate Professor: Examination of motor control using motion analysis.*
 LAURA SCHMITT, M.P.T., S.C.S. (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), *Richard B. Murray 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.*

CHUNG N. LEUNG, Ph.D. (Minnesota), *Professor: Elementary particle theory.*

JAMES MACDONALD, Ph.D. (Cambridge), *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.*

EDMUND NOWAK, Ph.D. (Minnesota), *Assistant Professor: Condensed matter, strongly correlated systems, superconductivity and granular materials.*

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), *Associate 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: 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), *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), *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.*

JANET 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), *Associate Professor: African and comparative politics.*

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.*

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.*

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, 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. MASTERSON, 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. SHARP.

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.

ERIC W. RISE, J.D., Ph.D. (Florida), *Associate Professor and Associate Chair, Criminal Justice Program*: Constitutional legal history.

PATRICIA ALDEN, A.A.S. (Delaware Tech), *Research Specialist*.

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.

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

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

ROBERTA E. GEALT, M.A. (Delaware), *Research Associate I*.
 ALICE M. GUETHLER, *Coordinator*.
 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, law and
 social science.
 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.
 STEVEN S. MARTIN, M.A. (Michigan), *Scientist*.
 JENNIFER L. MEYER, B.A. (Penn State), *Research Associate I*.
 SUSAN MILLER, Ph.D. (Maryland), *Associate Professor*: Criminology, sex
 and gender, policing.
 BIANCA MOORE, B.A. (Boston), *Research Associate I*.
 DIANE MURRAY, *Assistant to the Director*.
 DRUETTA NICHOLS-JENNINGS, *Research Associate I*.
 JOANNE M. NIGG, Ph.D. (California, Los Angeles), *Professor*; also *Co-*
Director, Disaster Research Center: Collective behavior, social
 movements, social psychology.
 MARY ANN POULOS, *Research Specialist*.
 CYNTHIA ROBBINS, Ph.D. (Michigan), *Professor*: Substance abuse,
 deviance, social epidemiology.
 ANDRÉ ROSAY, Ph.D. (Maryland), *Assistant Professor*: Research
 methodology and statistics.
 DANA ROSENBAUM, M.A. (James Madison), *Research Associate II*.
 JENNIFER M. ROSSITER, *Research Specialist*.
 CHRISTINE SAUM, M.A. (Florida), *Research Associate III*.
 FRANK R. SCARPITTI, Ph.D. (Ohio State), *Professor*: Deviant behavior,
 crime and delinquency.
 DARRELL C. SPARKS, B.A. (Delaware), *Research Specialist*.
 HILARY L. SURRATT, M.A. (Florida), *Associate Scientist*.
 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 III*.
 GERALD M. TURKEL, Ph.D. (California, Santa Barbara), *Professor*: Social
 theory, social psychology.
 JUDITH L. WATSON, *Assistant to the Chair*.

Joint and Adjunct Appointments

Black American Studies: CAROLE C. MARKS.

Education: JAMES H. CROUSE.

Urban Affairs and Public Policy: ROBERT A. WILSON.

Adjunct Faculty: CHARLES M. OBERLY III, J.D. • ROBERT J. O'NEIL,
 J.D. • JOHN J. POLK, J.D.

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*: Stage speech,
 voice production.
 PETER T. VAGENAS, Ph.D. (Denver), *Professor*: Undergraduate 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.
 JODI HAUPTMAN, Ph.D. (Yale), *Assistant Professor, Art History*:
 Twentieth-century art.
 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.
 MATTHEW KINSERVIK, Ph.D. (Penn State), *Assistant Professor, English*:
 Eighteenth-century British literature.
 PETER KOLCHIN, Ph.D. (Johns Hopkins), *Henry Clay Reed Professor*,
History: Nineteenth-century U.S. history, southern history, slavery.
 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.
 ARWEN MOHUN, Ph.D. (Case Western), *Associate Professor, History*:
 History of technology.

SUSAN STRASSER, Ph.D. (SUNY-Stony Brook), *Professor, History*: American industrialization, U.S. social and cultural history since 1873, U.S. business history.

BRYANT F. TOLLES, JR. Ph.D. (Boston), *Interim Chair, Art Conservation and Director, Museum Studies Program*; also *Professor, History and Professor, Art History*: American decorative arts.

Joint and Adjunct Appointments

Adjunct Faculty: GRETCHEN T. BUGGELN, Ph.D. • WENDY COOPER, M.A. • PAULINE EVERSMAHN, M.Phil. • DONALD L. FENNIMORE, M.A. • LESLIE GRIGSBY, M.A. • PATRICIA HALFPENNY, M.A. • CHARLES F. HUMMEL, JR., M.A. • BROCK JOBE, M.A. • GARY KULIK, Ph.D. • RICH McKINSTRY, M.A. • NEVILLE THOMPSON, M.S. • ANNE VerPLANCK, Ph.D.

Women's Studies

MARIAN LIEB PALLEY, Ph.D. (New York University), *Director and Professor*; also *Professor, Political Science and International Relations*: Public policy analysis, American politics, women and politics.

MARGARET L. ANDERSEN, Ph.D. (Massachusetts), *Professor*; also *Professor, Sociology and Criminal Justice*: Race relations, sex and gender, theory.

ROBIN ANDREASEN, Ph.D. (Wisconsin), *Assistant Professor*; also *Assistant Professor, Philosophy*: Philosophy of biology, philosophy of science, and gender/race studies.

GRETCHEN BAUER, Ph.D. (Wisconsin), *Associate Professor*; also *Associate Professor, Political Science and International Relations*: African and comparative studies.

KAREN BAUER, Ph.D. (Maryland), *Professor*; also *Assistant Director, Institutional Research and Planning*: Student outcome, assessment.

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

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

ANNE M. BOYLAN, Ph.D. (Wisconsin), *Associate Professor*; also *Associate Professor, History*: U.S. social history, history of women.

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

KATE CONWAY-TURNER, Ph.D. (Kansas), *Professor*; also *Professor and Chair, Individual and Family Studies*; also *Professor, Psychology*: Life span development, human sexuality, care-giving issues, gerontology, black family development.

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

MARIA FRAWLEY, Ph.D. (Delaware), *Associate Professor*; also *Associate Professor, English*: Victorian women's literature, nineteenth-century nonfiction, contemporary women's literature, disability studies, autobiography.

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

ANNETTE GIESECKE, Ph.D. (Harvard), *Assistant Professor*; also *Assistant Professor, Foreign Languages and Literatures*: Classics.

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

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

BARBARA KELLY, Ph.D. (Delaware), *Professor*; also *Professor, Health and Exercise Sciences*: Philosophy, history, women in physical education.

WUNYABARI MALOBA, O.P.W., Ph.D. (Stanford), *Associate Professor*; also *Associate Professor, History*; also *Coordinator, African Studies program*: African history.

LAWRENCE MARCEAU, Ph.D. (Harvard), *Associate Professor*; also *Associate Professor, Foreign Languages and Literatures*: Japanese.

RUDOLF MATTHEE, Ph.D. (California, Los Angeles), *Associate Professor*; also *Associate Professor, History*: Middle Eastern history.

JUDY McINNIS, Ph.D. (North Carolina), *Associate Professor*; also *Associate Professor, Foreign Languages and Literatures*: Spanish and comparative literature.

SUSAN MILLER, Ph.D. (Maryland), *Associate Professor*; also *Associate Professor, Sociology and Criminal Justice*: Criminology, sex and gender, policing.

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

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

LINDA PELLECCCHIA, Ph.D. (Harvard), *Associate Professor*; also *Associate Professor, Art History*: History of architecture, Renaissance art.

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

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

BONNIE SCOTT, Ph.D. (North Carolina), *Professor*; also *Professor, English*: Irish literature, feminist theory, modern literature.

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

JULIE MAPES WILGEN, Ph.D. (Texas Tech), *Assistant Professor*; also *Assistant Professor, Individual and Family Studies*; also *Coordinator, Undergraduate Advisement*: Human sexuality.

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*.

DAVID A. MEYER, (Delaware), *Head Exhibition Designer*.

University Parallel Program

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

Wilmington Campus

HELEN EASTERLING WILLIAMS, Ed.D. (Delaware), *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*.

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

MARISA DE LOS SANTOS, Ph.D. (Houston), *Assistant Professor of English*.

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.*
- JULIO CARRION, Ph.D. (Pittsburgh), *Assistant Professor.*
- ANNE A. COLWELL, Ph.D. (Delaware), *Associate Professor of 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.*
- 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.*

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

- MICHAEL J. GINZBERG, Ph.D. (MIT), *Dean; also Chaplin Tyler Professor of Business.*
- 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.*
- GLORIA ZOOK DIODATO, M.B.A. (Delaware), *Project Director for the MIS minor.*
- LORI R. FULLER, Ph.D. (Arizona State), C.P.A., *Assistant Professor: Auditing.*
- GUIDO GEERTS, Ph.D. (Free University of Brussels), *Assistant Professor: Information systems.*
- 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.*
- WINIFRED SCOTT, Doctoral Candidate (Florida State), *Assistant Professor: Financial accounting.*
- 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.*
- UMA VELURY, Ph.D. (South Carolina), *Assistant Professor: Financial 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 Area Head for Marketing: Marketing.*
- KARL F. AQUINO, Ph.D. (Northwestern), *Assistant Professor: Management.*
- THOMAS E. BECKER, Ph.D. (Ohio State), *Associate Professor: Management.*
- VIVIAN BENNETT, M.B.A. (Delaware), *Instructor: Operations 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: Operations management.*
- DIANE L. FERRY, Ph.D. (Pennsylvania), *Associate Professor: Management.*
- SANDRA M. FIELDS, M.B.A. (Radford), *Instructor: Marketing.*
- DANIEL FREEMAN, M.A. (Arizona), *Assistant Professor: 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), *Professor: 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 Area Head for Operations Management: Operations.*
 JOHN E. SAWYER, Ph.D. (Illinois), *Associate Professor and Area Head for Management: Management.*
 STEWART A. SHAPIRO, Ph.D. (Arizona), *Assistant Professor: Marketing.*
 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), *Associate Professor: Management.*
 RICHARD M. WEISS, Ph.D. (Cornell), *Associate Professor: Management.*
 W. SCOTT WYCOFF, Ph.D. (Delaware), *Instructor: 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: 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), *Associate 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.*

RAVINDRA YATAWARA, Ph.D. (Columbia), *Assistant Professor: International economics.*

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 finance, corporate governance.*

KENNETH BIEDERMAN, Ph.D. (Purdue), *Professor: Corporate finance, investments.*

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

TERRY L. CAMPBELL, Ph.D. (Penn State), *Assistant Professor: International finance, corporate finance.*

JAY F. COUGHENOUR, Ph.D. (Pittsburgh), *Assistant Professor: Investments, financial markets, market microstructure.*

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

TIMOTHY E. DETWILER, M.B.A. (Western Illinois), *Instructor: Corporate finance.*

CHARLES M. ELSON, J.D. (Virginia), *Edgar S. Woolard, Jr. Chair in Corporate Governance: Corporate law, corporate governance.*

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

DONALD J. PUGLISI, D.B.A. (Indiana), *MBNA America Business Professor: Investments, financial markets and institutions.*

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

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

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

COLLEGE OF ENGINEERING

Office of the Dean

ERIC W. KALER, Ph.D. (Minnesota), *Dean; also Elizabeth Inez Kelly Professor, Chemical 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

CHARLES T. BOWMAN III, M.B.A. (Tampa), *Lieutenant Colonel, United States Air Force; Professor and Chair.*

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

MICHAEL G. PEPPER, 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.
- 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

- 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.
- JEREMY S. EDWARDS, Ph.D. (California at San Diego), *Assistant Professor*: Quantitative analysis of cellular processes, metabolic engineering and biotechnology, bioinformatics and genomics, genomic systems engineering, biological systems evolution.
- 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.
- ERIC W. KALER, Ph.D. (Minnesota), *Elizabeth Inez Kelley Professor; also Dean, College of Engineering*: Colloid and surfactant science, complex fluid thermodynamics, materials synthesis, small-angle scattering.
- ABRAHAM M. LENHOFF, Ph.D. (Wisconsin), *Professor*: Transport phenomena, separation processes, biophysics and bioengineering.

- RAUL F. LOBO, Ph.D. (California Institute of Technology), *Associate 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.
- 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. • JAN L. LEROU, Ph.D. • STEVEN R. LUSTIG, Ph.D. • WILLIAM H. MANOGUE, Ph.D. • BABATUNDE OGUNNAIKE, Ph.D. • A.V. RAMAMURTHY, Ph.D. • MARK R. SCHURE, Ph.D. • RAVI SHARMA, Ph.D. • NORA BECK TAN, Ph.D. • KURT F. WISSBRUN, Ph.D.
- Off-Campus Faculty*: ARTHUR W. ETCHHELLS, Ph.D. • RICHARD GRENVILLE, Ph.D. • ALLAN E. JONES, Ph.D. • DAVID G.R. SHORT, Ph.D. • JAMES N. TILTON, Ph.D. • E. ALAN UEBLER, Ph.D.

Civil and Environmental Engineering

- CHIN P. HUANG, P.E., Ph.D. (Harvard), *Distinguished Professor and Chair; also Professor, Marine Studies*: Industrial waste management, interfacial phenomena, water chemistry and water quality control.
- MICHAEL J. CHAJES, P.E., Ph.D. (California, Davis), *Associate Professor and Associate Chair*: Structural design and analysis, infrastructure evaluation and rehabilitation.
- HERBERT E. ALLEN, Ph.D. (Michigan), *Professor*: Water and sediment chemistry, heavy metal pollution.
- DANIEL KUHYN CHA, Ph.D. (California, Berkeley), *Associate Professor*: Process control of biological wastewater treatment facilities, biotransformation of organic and inorganic toxic pollutants, bioenvironmental engineering.
- ALEXANDER H.-D. CHENG, Ph.D. (Cornell), *Professor; 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, P.E., 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, P.E., 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.
- 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, P.E., 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.
- DOV LESHCHINSKY, P.E., Ph.D. (Illinois), *Professor*: Soil mechanics, geotechnical engineering.
- DENNIS R. MERTZ, Ph.D. (Lehigh), *Associate Professor*: Structural design, fatigue and fracture, design methodologies.
- HARRY W. SHENTON, Ph.D. (Johns Hopkins), *Associate Professor*: Structural dynamics, earthquake and wind engineering, civil structural control, experimental methods.
- IB A. SVENDSEN, Ph.D. (Technical University, Denmark), *Distinguished Professor*; also *Professor, Marine Studies*: Coastal engineering, wave mechanics, hydrodynamics, ship maneuvering.
- JERRY YAMAMURO, Ph.D. (California, Los Angeles), *Assistant Professor*: Experimental and theoretical mechanics, constitutive modeling, soil instability and liquefaction, nondestructive testing of fiber reinforced concrete, behavior and modeling of polymer extrusion process.

Joint and Adjunct Appointments

- Bioresources Engineering*: WILLIAM F. RITTER.
- Marine Studies*: MOHSEN BADIY, 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), *Associate 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.
- JAVIER GARCIA-FRIAS, Ph.D. (California, Los Angeles), *Assistant Professor*: Wireless communications, joint source coding, interactive decoding, codes on graphs.
- 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), *Associate Professor*: Parallel algorithms and architectures, software systems for high performance computing.

- FOUAD KIAMILEV, Ph.D. (California at San Diego), *Assistant Professor*: Design and test of high-performance digital and analog CMOS and BICMOS VLSI circuits, optoelectronic integrated circuits, optoelectronic VLSI.
- 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), *Associate Professor*: Numerical electromagnetic modeling of passive and active optical devices, diffractive and holographic optics, micro-optical processing systems, and optical communications.
- 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, biomolecular materials, polymer physics, self-assembled monolayers (SAHs).
- JINGGUANG G. CHEN, Ph.D. (Pittsburgh), *Associate Professor*: Surface and interface, nanostructured devices and sensors, environmental catalysis.
- 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.
- DARRIN J. POCHAN, Ph.D. (Massachusetts), *Assistant Professor*: Polymer physics, morphology, biopolymer self-assembly, thin films.
- S. ISMAT SHAH, Ph.D. (Illinois, Urbana-Champaign), *Associate Professor*; also *Associate Professor, Physics and Astronomy*: Thin films, surface and interface, nanostructured materials, composites.

Joint and Adjunct Appointments

- Chemical Engineering*: DOUGLAS J. BUTTREY, ROY L. McCULLOUGH.
- Marine Studies*: STEPHEN C. DEXTER.
- Mechanical Engineering*: TSU-WEI CHOU, IAN W. HALL, AZAR PARVIZI-MAJIDI.

Mechanical Engineering

- TSU WEI CHOU, Ph.D. (Stanford), *Jerzy L. Nowinski Professor and Acting Chair*: Composite materials, crystal defect theory, micro-biomechanics, fracture of solids and applied mechanics.
- SURESH G. ADVANI, Ph.D. (Illinois, Urbana-Champaign), *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.

- 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 KEEFFE, Ph.D. (Minnesota), *Associate Professor*: Computer-aided design, mechanical design, system modeling and rapid tooling.
- JOHN M. LAMBROS, Ph.D. (California Institute of Technology), *Associate 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*: 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. • FABIAN MAUSS, Ph.D. • FREEMAN MILLER, Ph.D. • ETER POPPER, Ph.D. • KARL V. STEINER, Ph.D. • RAY YIN, 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*.

BARBARA C. TETER, B.S. (James Madison), *Director of Development*.

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), *Associate 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.
- JAMES C. GALLOWAY, Ph.D., P.T. (Arizona), *Assistant Professor, Physical Therapy*: Development of infant motor behaviors, neuro-motor control of normal and dysfunctional arm behaviors, interlimb control in musicians.
- SUSAN J. HALL, Ph.D. (Washington State), *Professor and Chair, Health and Exercise Sciences*: Lumbar spine biomechanics, exercise efficacy, sport biomechanics.
- MICHAEL KEEFFE, 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.
- KATHERINE S. RUDOLPH, Ph.D., P.T. (Delaware), *Assistant Professor, Physical Therapy*: Automated movement analysis, electromyography, neuromuscular control of the knee.
- 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

- SUSAN J. HALL, Ph.D. (Washington State), *Professor and Chair*: Biomechanics.
- AVRON ABRAHAM, Ph.D. (Connecticut), *Associate Professor*: Exercise physiology and health fitness.
- DAVID A. BARLOW, Ph.D. (Indiana), *Associate Professor*: Biomechanical aspects of sport science/medicine.
- JANICE BIBIK, Ph.D. (Syracuse), *Associate Professor*: Teaching and curriculum.
- JEROME D. BROWN, JR., M.S. (Delaware), *Instructor*: Health education.
- KAREN F. EDWARDS, Ed.D. (Temple), *Associate Professor*: Health education.
- STEPHEN C. GOODWIN, Ph.D. (Penn State), *Associate Professor*: Health education.
- MICHAEL HIGGINS, M.S. (Delaware), *Instructor*: Athletic Training.
- 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.
- JOSEPH E. SZCZERBA, Ph.D. (Virginia), *Instructor*: Athletic Training.
- D. ALLAN WATERFIELD, Ph.D. (Ohio State), *Professor*: Exercise physiology.

Joint Appointments

- Intercollegiate Athletics*: JOAN COUCH, BONNIE JILL FERGUSON, JAMES W. FISCHER, SCOTT GRZENDA, KEITH A. HANDLING, JOHN T. HAYMAN, MARY ANN HITCHENS, EDGAR N. JOHNSON, SEAN KEARNEY, JAMES W. KENT, LOREN E. KLINE, SUSAN M. McGRATH-POWELL, HAROLD R. RAYMOND, MARC SAMONISKY, JOHN SCHUSTER, ROBERT SHILLINGLAW.

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 practicums.
- 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. FERNISLER, D.S.N. (Alabama), *Professor*: Oncology/immune deficiency nursing.
- PATRICIA G. GRIM, *Assistant to the Chair*.
- BETHANY HALL-LONG, Ph.D. (George Mason), *Associate Professor*: Community health.
- THOMAS L. HARDIE, Ed.D. (Columbia), *Associate Professor*: Psychiatric nursing.
- EVELYN R. HAYES, Ph.D. (Boston University), *Professor*: Public health and family nurse practitioner.
- JUDY HENDRICKS, M.S. (Delaware), *Assistant Professor*: Adult health nurse practitioner.
- JUDY HERRMAN, M.S. (Delaware), *Instructor*: Maternal/child health.
- PIA INQUITO, M.S.N. (Texas), *Instructor*: Medical-surgical nursing.
- AMY JOHNSON, D.N.Sc. (Catholic), *Assistant Professor*: Nursing of children.
- PAULA R. KLEMM, D.N.Sc. (Catholic University of America), *Associate Professor*: Oncology.
- MADELINE LAMBRECHT, Ed.D. (Temple), *Associate Professor; 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.
- CYNTHIA PEARSON, M.S.N. (Pennsylvania), *Instructor*: Psychiatric nursing.
- LISA PLOWFIELD, Ph.D. (Virginia), *Associate Professor*: Trauma, critical care.
- CAROLEE POLEK, M.S.N. (Pennsylvania), *Assistant Professor*: Medical-surgical 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 nursing.*
 KATHLEEN A. SCHELL, M.S. (Delaware), *Instructor: Cardiopulmonary nursing, critical care.*
 BARBARA L. SHEER, D.N.Sc. (Widener), *Associate Professor: Family nurse practitioner.*
 BARBARA SNYDER, M.S.N. (Pennsylvania), *Instructor: Gerontology.*
 MARYBETH SNYDER, M.S. (Delaware), *Instructor: Medical-surgical nursing.*
 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.*
 MARIE T. FANELLI-KUCZMARSKI, Ph.D. (Rutgers), *Professor: Gerontological nutrition, nutritional assessment methods.*
 CHENG-SHUN FANG, Ph.D. (Nebraska), *Associate 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 SERVICES, 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.*
 PATSY HOWANIEC, *Assistant to the Dean.*
 TIMOTHY MILLER, M.A. (Marshall), *Assistant Dean for College Management.*
 KIMBERLY YACKOSKI, M.Ed. (Delaware), *Assistant Dean for Student Services.*
 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, artwear.*
 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.

Education

CHRISTOPHER CLARK, Ph.D. (Stanford), *Director and Professor: Teacher education, classroom learning, and cognitive psychology.*
 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), *Associate 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.*
 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.

DANIELLE FORD, Ph.D. (Michigan), *Assistant Professor*: Science education.

SUSAN GIANCOLA, Ph.D. (Pennsylvania), *Associate Policy Scientist*: Policy research, evaluation, and measurement.

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.

ROBERT HAMPEL, Ph.D. (Cornell), *Professor; also Coordinator, Ed.D. Program in Educational Leadership*: History of education, contemporary educational policy.

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.

DEBORAH KNIGHT, Ph.D. (Georgia), *Assistant Professor*: Applied human development.

CHARLES A. MacARTHUR, Ph.D. (American), *Professor*: Special education, reading and writing skills for learning disabled students, vocational assessment of children.

EUGENE L. MATUSOV, Ph.D. (California at Santa Cruz), *Assistant Professor*: Instruction and cognition.

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.

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.

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 Services, 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.

Dean of Students Office: TIMOTHY F. BROOKS.

Institutional Research and Planning: MICHAEL F. MIDDGAUGH.

Mathematical Sciences: JINFA 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.

GEORGE CONRADE, M.B.A. (Michigan State), *Professor*: Financial management, marketing, catering.

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.

ROBERT R. NELSON, Ph.D. (Delaware), *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*.

Joint Appointment

Continuing Education: RICHARD B. FISCHER.

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 and Graduate Program Coordinator*: 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.
- NORMA GAINES-HANKS, Ed.D. (Delaware), *Associate Policy Scientist and Assistant Professor; also Coordinator, Family Community Services Internship Program*.
- 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.
- 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.
- NORMA GAINES-HANKS, Ed.D. (Delaware), *Assistant Professor and Associate Policy Scientist; also Coordinator, Family Community Services Internship Program*.
- 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*: 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 Counseling and Student Development*: CHARLES L. BEALE, JOHN B. BISHOP, TIMOTHY F. BROOKS, EMILY F. CARTER, JONATHAN D. LEWIS, SHARON L. MITCHELL, RICHARD S. SHARE, 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, D.P.A. (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.
- JAMES P. FLYNN, Ed.D. (Delaware), *Assistant Professor; also Internship Director*: Personnel administration, quality improvement initiatives, educational governance, legislative management, professional development.
- 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 Services, 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.

Economics: WILLIAM R. LATHAM, III.

Food and Resource Economics: THOMAS W. ILVENTO, PATRICIA T. NELSON.

Geography: YDA SCHREUDER, APRIL R. VENESS.

Hotel, Restaurant and Institutional Management: PAUL SESTAK.

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, MARIAN PALLEY, JOSEPH B. PIKA, HENRY T. REYNOLDS, RICHARD T. SYLVES.

Adjunct Faculty: CESAR CUELLO, Ph.D. • JOHN ELSE, Ph.D. • 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 BADIOY, 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, recruitment dynamics.

RICHARD T. FIELD, Ph.D. (Delaware), *Associate Research Scientist*: Application of remote sensing to land surface climate studies, microclimatology of 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*; also *Professor, Civil and Environmental Engineering*: 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*: Geochemistry; sedimentology; clay mineralogy; environmental studies.

I. PABLO HUQ, Ph.D. (Cambridge), *Associate Professor*; also *Associate Professor, Mechanical Engineering*: 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.

A.D. KIRWAN, JR., Ph.D. (Texas A&M), *Professor*; also *Director, Physical Ocean Science and Engineering*: Dynamic processes responsible for transport of matter and energy in natural environments; rapid environmental assessment.

VICTOR V. KLEMAS, Ph.D. (Technical University of Braunschweig), *Professor*; also *Director, Center for Remote Sensing*; also *Professor, Electrical and Computer Engineering*: 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.

BRUCE L. LIPPHARDT, JR., Ph.D. (Old Dominion), *Associate Research Scientist*: Dynamics of mesoscale and submesoscale processes in the coastal ocean.

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*: 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), *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), *Professor*; also *Professor, Geology*: Geochemical cycles; rock/water interactions; coastal, estuarine, and nearshore processes.

FERRIS WEBSTER, Ph.D. (M.I.T.), *Professor*; also *Director, Oceanography Program*: 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.

Plant and Soil Sciences: BERTRAND R. LEMIEUX, DONALD L. SPARKS.

Political Science and International Relations: JAMES K. OLIVER, MARIAN L. PALLEY, RICHARD T. SYLVES.

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. • THOMAS E. HELSER, 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. • NANCY McCAGNEY, Ph.D. • WILLIAM H. MEREDITH, Ph.D. • TAVIT O. NAJARIAN, Ph.D. • DONALD B. NUZZIO, Ph.D. • JAMES C. PIERCE, Ph.D. • ANDREW C. POJE, Ph.D. • MANMOHAN SARIN, Ph.D. • WILLIAM G. SUNDA • ALAIN J. VERON, Ph.D. • J. HERBERT WAITE, Ph.D. • PAUL L. WOLF, Ph.D.

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*.

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. (M.I.T.), *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 CHESSON, 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.'UN (Besançon, France), *Professor Emeritus of Foreign Languages and Literatures*.

FACULTY EMERITI

EDWARD P. ALEXANDER, Ph.D. (Columbia), *Professor Emeritus of Museum Studies*.

LEROY BANKS ALLEN, Ph.D. (Chicago), *Professor Emeritus of Education*.

- ROGER L. COX, Ph.D. (Columbia), *Professor Emeritus of English*.
- 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*.
- ROBERT A. DAY, M.A. (Columbia), *Professor Emeritus of English*.
- ANNA JANNEY DeARMOND, Ph.D. (Pennsylvania), *Professor Emerita of English*.
- ANNA LEE DeHAVEN, Ph.D. (Maryland), *Professor Emerita of Nursing*.
- ALEXANDER R. DOBERENZ, Ph.D. (Arizona), *Professor Emeritus of Nutrition and Dietetics*.
- 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*.
- JEAN H. FUTRELL, Ph.D. (California, Berkeley), *Professor Emeritus of Chemistry and Biochemistry*.
- 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*.
- 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*.
- ANNE K. GRAHAM, M.F.A. (Iowa), *Professor Emerita of Art*.
- 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*.
- GEORGE F.W. HAENLEIN, Ph.D. (Wisconsin), *Professor Emeritus of Animal and Food Sciences*.
- 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*.
- WILLIAM I. HOMER, Ph.D. (Harvard), *Professor Emeritus of Art History*.
- HARRY D. HUTCHINSON, Ph.D. (Michigan), *Professor Emeritus of Economics*.
- 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*.
- EDWARD H. KERNER, Ph.D. (Cornell), *Professor Emeritus of Physics and Astronomy*.
- 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*.
- ALBERT E. LIVINGSTON, Ph.D. (Rutgers), *Professor Emeritus of Mathematical Sciences*.
- 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*.
- RONALD E. MARTIN, Ph.D. (Boston), *Professor Emeritus of English*.
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