



UNIVERSITY OF DELAWARE
UNIVERSITY PERSONNEL
2002-2003



THE FACULTY

COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

- ROBIN MORGAN, Ph.D. (Johns Hopkins), *Dean, and Acting Director of the Agricultural Experiment Station; also Professor, Animal and Food Sciences.*
- JOHN E. DOHMS, Ph.D. (Ohio State), *Interim Associate Dean for Academic Programs; also Professor, Immunology and Microbiology.*
- KAREN ROTH ANIUNAS, M.Ed. (Delaware), *Assistant Dean for Student Services.*
- JULIE M. BURTON, B.S. (Wilmington College), *Assistant Dean of Operations.*

Agricultural and Technology Education

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

Adjunct Appointment

- Adjunct Faculty:* ARBA HENRY.

Animal and Food Sciences

- JOHN K. ROSENBERGER, Ph.D. (Wisconsin), *Professor and Chair: Microbiology.*
- CALVIN KEELER, Ph.D. (Maryland), *Professor and Assistant Chair: Molecular virology.*
- ROBERT L. ALPHIN, JR., M.S. (Delaware), *Instructor and Poultry Research Coordinator.*
- AMY ANDERSON, B.S. (Delaware), *Research Associate III.*
- ERIN L. BERNBERG, B.S. (Lehigh), *Limited Term Researcher.*
- CYNTHIA M. BOETTGER, B.S. (Delaware), *Research Associate II.*
- JOAN BURNSIDE, Ph.D. (Dartmouth), *Professor; also Professor, Biological Sciences.*
- SANDRA S. CLOUD, Ph.D. (Delaware), *Scientist. Virology.*
- LARRY A. COGBURN, Ph.D. (Illinois), *Professor: Avian physiology.*
- L. AMARIN COGBURN, B.S. (Delaware), *Research Associate I.*
- CATHERINE G.A. DAVIES, Ph.D. (Leeds University), *Assistant Professor: Food biochemistry/biotechnology.*
- JOHN E. DOHMS, Ph.D. (Ohio State), *Professor: Immunology and microbiology; also Interim Associate Dean for Academic Programs, College of Agriculture and Natural Resources.*
- ROBERT M. DYER, V.M.D., Ph.D. (Pennsylvania), *Associate Professor: Veterinary medicine, production medicine, large animal immunology.*
- MARLENE G. EMARA, Ph.D. (Ohio State), *Associate Professor: Molecular immunology.*
- NEGEDE GEDAMU, B.S. (Norfolk State), *Research Associate I.*
- JACK GELB, JR., Ph.D. (Georgia), *Professor: Virology.*

- KAREN GOUGE, *Poultry Farm Manager.*
- LESA GRIFFITHS, Ph.D. (Purdue), *Professor: Monogastric nutrition; also Director, Center for International Studies.*
- DALLAS G. HOOVER, Ph.D. (Minnesota), *Professor: Food microbiology, biotechnology, fermentations, food safety.*
- GRACE K. ISAACS, B.S. (Delaware), *Research Associate I.*
- ROLF D. JOERGER, Ph.D. (North Carolina State), *Associate Professor: Microbial genetics and physiology.*
- BREUSTER KINGHAM, B.S. (Delaware), *Limited Term Researcher.*
- LIMIN KUNG, Ph.D. (Michigan State), *Professor: Ruminant nutrition and microbiology.*
- BRIAN S. LADMAN, M.S. (Delaware), *Research Associate III.*
- JAMES A. MAAS, Ph.D. (Guelph), *Assistant Professor: Ruminant nutritional physiology.*
- GEORGE W. MALONE, M.S. (Massachusetts), *Extension Poultry Specialist.*
- ELIZABETH P. McMULLEN, B.S. (Delaware), *Assistant to the Chair.*
- ROBIN W. MORGAN, Ph.D. (Johns Hopkins), *Professor; also Dean, College of Agriculture and Natural Resources; also Professor, Biology and Professor, Chemistry and Biochemistry.*
- CONRAD R. POPE, D.V.M. (Tuskegee), *Professor: Veterinary pathology.*
- HILARY J. REIDY, A.A.S. (Del Tech), *Research Associate I.*
- MARIANO SALEM, V.M.Z. (Mexico), *Senior Scientist and Director, Poultry Diagnostic Laboratory: Veterinary diagnostics.*
- 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 III.*
- O. SUE SNIDER, Ph.D. (Missouri), *Professor and Extension Specialist; also Associate Professor, Nutrition and Dietetics.*
- 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.*
- MARCY TROEBER, B.S., (Delaware), *Research Associate II.*
- XIAOQIN XU (Hubei), *Research Associate II.*

Joint and Adjunct Appointments

- Biological Sciences:* MELINDA K. DUNCAN, Ph.D.
- Delaware Biotechnology Institute:* DAVID S. WEIR, Ph.D.
- Adjunct Faculty:* KEVIN B. HICKS, MICHAELA KRISTULA, HYUN S. LILLEHOJ, JOHN A. PROUDMAN, JAMES E. WOHLT.

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.*

ERIC R. BENSON, Ph.D. (Illinois), *Assistant Professor*: Machine vision, applied controls, vehicle guidance.

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.

IAN McCANN, Ph.D. (Texas A&M), *Assistant Professor*: Irrigation systems, water management.

WILLIAM F. RITTER, Ph.D. (Iowa State), *Professor*: Soil and water engineering, waste management.

JAMES N. SCARBOROUGH, Ph.D. (Illinois), *Associate Professor*: Structures.

Entomology and Applied Ecology

DOUGLAS W. TALLAMY, Ph.D. (Maryland), *Professor and Acting Chair*: Insect behavioral ecology, the evolution of parental behavior in arthropods, plant-insect interactions.

JUDITH A. HOUGH-GOLDSTEIN, Ph.D. (Cornell), *Professor*: Insect pest management, insect behavior and ecology.

JACOB L. BOWMAN, Ph.D. (Mississippi State), *Assistant Professor*: Wildlife ecology, conservation biology, biometrics, habitat management, mammalogy.

DEWEY M. CARON, Ph.D. (Cornell), *Professor*: Apiology, insect behavior and general entomology.

CLIFFORD B. O. KEIL, Ph.D. (Virginia Tech), *Associate Professor*: Insect genetics, genetics of insecticide resistance, insect pathology, mushroom insects.

CHARLES E. MASON, Ph.D. (Kansas State), *Professor*: Pest management of stalk-boring insects, biological control and chemical ecology of host plant associations.

ROLAND R. ROTH, Ph.D. (Illinois), *Professor*: Ecology, ornithology, and wildlife conservation.

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, LINDSEY FLEXNER, ROGER W. FUESTER, JON GELHAUS, JOHN GINGRICH, CALEB HOLYOKE, KEITH HOPPER, JOHN JACKSON, DANIEL OTTE, PAUL SCHAEFER, MICHAEL SMITH.

Food and Resource Economics

THOMAS W. ILVENTO, Ph.D. (Penn State), *Professor and Chair*: Rural sociology and community economic development.

J. RICHARD BACON, M.S. (Tennessee), *Instructor*: Agricultural education, marketing and risk management.

PATRICIA BARBER, Ed.D. (Florida), *Associate Professor*: Family economics and agricultural education.

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; also *Assistant Professor, Legal Studies*.

PAUL P. EGGERMONT, Ph.D. (SUNY, Buffalo), *Associate Professor*: Nonparametric statistics, ill-posed problems, integral equations and image reconstruction.

CONRADO M. GEMPESAW II, Ph.D. (Penn State), *Professor*: Production economics, agricultural finance, and statistics; also *Professor*: Economics; also *Vice Provost for Academic and International Programs*.

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*.

PALANIAPPA KRISHNAN, Ph.D. (Illinois), *Associate Professor and Director, Operations Research Program*: Chemical spray application, machinery management.

VINCENT N. LARICCIA, Ph.D. (Texas A&M), *Associate Professor*: 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*: Probability and statistics.

PATRICIA NELSON, Ed.D. (Columbia), *Professor and Family and Child Development Specialist*; also *Associate Professor, Individual and Family Studies*.

JOHN PESEK, Ph.D. (Michigan), *Instructor*: Statistics.

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

H. DON TILMON, Ph.D. (Purdue), *Professor and Farm Management Specialist*: Cooperative Extension.

ULRICH C. TOENSMeyer, Ph.D. (Maryland), *Professor*: Food marketing management and sales, futures and options markets.

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 and Food and Resource Economics*: 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.

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

CONRADO M. GEMPESAW II, Ph.D. (Pennsylvania State), *Professor, Food and Resource Economics*; also *Vice Provost for Academic and International Programs*.

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.

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

SCOTT A. MALCOLM, Ph.D. (Pennsylvania), *Assistant Professor, Food and Resource Economics*: Operations research and production systems.

AJAY K. MANRAI, Ph.D. (Northwestern), *Professor, Business Administration*: Econometrics, optimization theory.

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

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.

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

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

ADARSHPAL SETHI, Ph.D. (Indian Institute of Technology, Kanpur), *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), *S. Hallock DuPont 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. FRETT, 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.

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

KAREN GARTLEY, M.S. (Delaware), *Director, Soil Testing*.

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

PAMELA GREEN, Ph.D. (SUNY), *Crawford H. Greenwalt Endowed Chair in Plant Molecular Biology and Professor*: Plant molecular biology.

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 III*.

YAN JIN, Ph.D. (California, Riverside), *Associate 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 OLSEN, M.S. (Delaware), *Lab Supervisor, Soil Testing*.

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.

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), *Extension agronomy and soil science specialist*.

ROBERT UNIATOWSKI, B.S. (Delaware), *Extension agronomist*.

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*.

K. ERIC WOMMACK, Ph.D. (Maryland), *Assistant Professor*.

Joint and Adjunct Appointments

Bioresources Engineering: CARMINE C. BALASCIO.

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

Marine Studies: JOHN S. BOYER, GEORGE LUTHER.

Adjunct Faculty: THEODORE H. CARSKI, MICHAEL J. DUFFY, EDWARD JONES, JAY JULIS, J. ANTONI RAFALSKI, HAJIME SAKAI.

COLLEGE OF ARTS AND SCIENCE

Office of the Dean

MARK W. HUDDLESTON, Ph.D. (Wisconsin), *Dean, also Professor, Political Science and International Relations, also Professor, Urban Affairs and Public Policy*: Public Administration.

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

MARTHA L. CAROTHERS, M.F.A. (Penn State), *Associate Dean, also Professor*: Art.

GEORGE H. WATSON, Ph.D. (Delaware), *Associate Dean, also Unidel Professor*: Physics and Astronomy.

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

LAWRENCE A. GRIFFITH, B.S. (William and Mary), *Interim Assistant Dean*.

MARCIA WATSON-WHITMYRE, Ph.D. (Delaware), *Assistant Dean and Director of Student Services*.

HELEN EASTERLING WILLIAMS, Ed.D. (Delaware), *Senior Assistant Dean, University Parallel Program and Wilmington Campus*.

SAMI ABDEL-SALAM, M.S. (Central Missouri State University), *General Advisor*.

KRISTIN A. BENNIGHOFF, M.A. (Delaware), *General Advisor*.
 MARY CLEVELAND, *Administrative Coordinator*.
 CHERYL A. DAVIS, M.A. (Indiana University of Pennsylvania), *General Advisor*.
 JULIE DEMGEN, B.A. (University of Wisconsin-Superior), *Assistant to the Dean*.
 RICHARD DUGGAN, *IT Manager*.
 RENÉE FISHER, M. Ed. (Pennsylvania), *Administrative Academic Advisor*.
 IRENE GREEN, M.S. (Delaware), *Administrative Academic Advisor*.
 PATRICIA JEFFERY, M.A. (Delaware), *Administrative Academic Advisor*.
 PAUL A. PUSECKER, III, M.S. (Penn State), *Executive Officer*.
 CYNTHIA SHENKLE, M.Ed. (Delaware), *Manager of Programs and Projects, Advisement Center*.
 RUTH M. TAUBER, M.A. (Delaware), *Manager*.
 ANN WOLFER, M.Ed. (Delaware), *Manager, Advisement Center*.

Anthropology

KAREN R. ROSENBERG Ph.D. (Michigan), *Associate Professor and Chair*.
 KENNETH J. ACKERMAN, Ph.D. (Pennsylvania), *Associate Professor*.
 DONNA M. BUDANI, Ph.D. (American), *Assistant Professor*.
 JAY F. CUSTER, Ph.D. (Catholic University of America), *Professor*.
 LuANN DeCUNZO, Ph.D. (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*.
 NORMAN B. SCHWARTZ, Ph.D. (Pennsylvania), *Professor*.
 JUAN A. VILLAMARIN, Ph.D. (Brandeis), *Associate Professor*.
 PETER M. WEIL, Ph.D. (Oregon), *Associate Professor*.

Art

SUZANNE AUSTIN ALCHON, Ph.D. (Duke University), *Acting Chair*.
 RANDALL C. BOLTON, M.F.A. (Ohio State), *Professor: Printmaking*.
 MARTHA L. CAROTHERS, M.F.A. (Penn State), *Professor and Associate Dean: Visual communications*.
 BILL DEERING, *Assistant Professor: Visual communications*.
 HENDRIK-JAN FRANCKE, B.A. (University of Delaware), *Assistant Professor: Visual communications*.
 LARRY W. HOLMES, M.F.A. (Cranbrook Academy of Fine Arts), *Professor: Painting*.
 VERA E. KAMINSKI, M.F.A. (Maryland Institute College of Art), *Associate Professor: 3D Design*.
 ROSEMARY LANE, M.F.A. (Oregon), *Professor: Printmaking*.
 RENÉ MARQUEZ, M.F.A. (University of Pennsylvania), *Assistant Professor: Drawing*.
 DAVID MEYER, M.F.A. (University of Delaware), *Assistant Professor: Sculpture*.
 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*.
 JOHN J. WEISS, M.F.A. (Rhode Island School of Design), *Professor: Photography*.

Joint and Adjunct Appointments

Museum Studies: HILTON BROWN.
University Gallery: BELENA S. CHAPP.

Art Conservation

DEBRA HESS NORRIS, M.S. (Delaware), *Associate Professor and Chair, also Director of B.A. Program, Director of M.S. Program and Conservator of Photographs*: Photograph conservation treatment, collections care, disaster response.
 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.
Museum Studies: Hilton Brown
Adjunct Faculty: MARK ANDERSON, MARK BOCKRATH, JANICE CARLSON, HERBERT L. CROSSAN, BETTY FISKE, JOY GARDINER, KATHLEEN KIEFER, EBENEZER KOTEL, JOHN KRILL, GREGORY LANDREY, MARGARET LITTLE, JENNIFER MASS, MICHAEL PODMANICZKY, BRUNO POULIOT, LOIS PRICE, ROBERTA TARBELL.

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.
 BERNARD L. HERMAN, Ph.D. (Pennsylvania), *Edward F. and Elizabeth Goodman Rosenberg Professor, also Professor, History, and Senior Policy Scientist, Urban Affairs and Public Policy; also Director, Center for American Material Culture Studies*: American vernacular architecture and folk and ethnic art.
 JENNIFER B. HINTLIAN, M.A. (Boston), *Assistant Slide Librarian*.
 MICHAEL LEJA, Ph.D. (Harvard), *Sewell C. Biggs Chair in American Art*: American art to 1900.
 LAWRENCE P. NEES, JR., Ph.D. (Harvard), *Professor*: Medieval art.
 LENIS H. NORTHMORE, M.L.S. (Simmons), *Slide Librarian*.
 IKEM S. OKOYE, Ph.D. (M.I.T.), *Assistant Professor*: African art and architecture.
 LINDA PELLECCIA, Ph.D. (Harvard), *Associate Professor; also Associate Professor, Women's Studies*: History of architecture, Renaissance art.
 LAUREN PETERSEN, Ph.D. (Texas), *Assistant Professor*: Ancient art.
 DAVID M. STONE, Ph.D. (Harvard), *Associate Professor*: Italian Baroque art.
 MARGARET WERTH, Ph.D. (Harvard), *Assistant Professor*: Nineteenth and twentieth century European art.
 RICHARD WITTMAN, Ph.D., (Columbia University), *Assistant Professor*: History of architecture.

Joint and Adjunct Appointments

Black American Studies: AMALIA AMAKI.
Museum Studies: HILTON BROWN, CHANDRA REEDY, BRYANT F. TOLLES, JR.

Biological Sciences

DANIEL CARSON, Ph.D. (Temple), *Trustees Distinguished Professor and Chair*: Extracellular matrix structure and function.
 DAVID C. USHER, Ph.D. (Iowa), *Associate Professor and Associate Chair*: Immunogenetics.

DEBORAH E. ALLEN, Ph.D. (Delaware), *Associate Professor and Undergraduate Programs Director*. Science education.

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.

CARLTON R. COOPER, Ph.D. (Mississippi State University), *Assistant Professor*. Prostate cancer.

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.

MELINDA DUNCAN, Ph.D. (Rutgers), *Associate 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.

DENI S. GALILEO, Ph.D. (Florida), *Assistant Professor*. Developmental neurobiology.

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*.

NORMAN J. KARIN, Ph.D. (Tennessee), *Associate Professor and Graduate Programs Director*. Cell biology and cell physiology.

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), *Professor*. Molecular biology and genetics, gene therapy.

GARY H. LAVERTY, Ph.D. (Connecticut), *Associate Professor*. 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, also Acting Director, Medical Scholars Program*. Molecular biology, cancer mechanisms, science education.

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

ROBERT SIKES, Ph.D. (University of Texas), *Assistant Professor*. Prostate cancer.

DANIEL T. SIMMONS, Ph.D. (Cal. Tech.), *Professor*. 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.

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*.

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: DAVID P.M. NORTHMORE.

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*.

AMALIA AMAKI, Ph.D. (Emory), *Assistant Professor*.

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

JAMES E. NEWTON, Ed.D. (Illinois), *Professor and Senior Fellow, Center for Community Development and Family Policy*.

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*. Analytical chemistry.

THOMAS P. BEEBE, JR., Ph.D. (Pittsburgh), *Professor*. Analytical chemistry.

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), *Associate 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.

JOHN L. DYKINS, B.S. (Salford, UK), *Mass Spectrometrist*. Analytical chemistry.

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

JOSEPH FOX, Ph.D. (Columbia), *Assistant 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), *Associate Professor*. Organic chemistry.

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

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

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

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

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

CLIFFORD R. ROBINSON, Ph.D. (Illinois), *Assistant Professor*. Biochemistry.

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

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.

JAMES A. WINGRAVE, Ph.D. (Texas), *Assistant Professor*: Analytical chemistry.

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

NEAL J. ZONDLO, Ph.D. (Yale), *Assistant Professor*: Organic chemistry.

Joint and Adjunct Appointments

Animal and Food Science: ROBIN W. MORGAN.

Biological Sciences: DANIEL T. SIMMONS.

Chemical Engineering: MARK A. BARTEAU, 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, JACQUES P. FRAISSARD, ALBERT MATLACK.

Cognitive Science

BRIAN P. ACKERMAN, Ph.D. (SUNY), *Professor and Acting Chair, 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.

BENJAMIN BRUENING, Ph.D. (M.I.T.), *Assistant Professor, Linguistics*: Syntax, psycholinguistics, Native American languages.

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.

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*; also *Chair, Linguistics*: Phonology, phonetics, morphology.

HELENE INTRAUB, Ph.D. (Brandeis), *Professor, Psychology*: Scene perception, visuo-spatial memory, pictorial representation.

FREDERICK MASTERSON, Ph.D. (Princeton), *Professor, Psychology*: Animal learning, artificial intelligence, mathematical psychology.

KATHLEEN McCOY, Ph.D. (Pennsylvania), *Associate Professor, Linguistics*; also *Director, Center for Applied Science and Engineering in Rehabilitation*: Artificial intelligence, natural language processing; also *Associate Professor, Computer and Information Sciences*.

JOHN MCLAUGHLIN, Ph.D. (New York University), *Associate Professor, Psychology*: Aesthetics, perception, 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.

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

EVELYN SATINOFF, Ph.D. (Pennsylvania), *Professor, Psychology*: Neural integration of sleep, circadian rhythms, thermoregulation.

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

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.

VIJAY K. SHANKER, Ph.D. (Pennsylvania), *Associate Professor, Linguistics*: Artificial intelligence, natural language processing; also *Associate Professor, Computer and Information Sciences*.

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*.

XIAOMEI CAI, Ph.D. (Indiana), *Assistant Professor*: Mass communication, media effects, media message analysis.

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

JULIET L. DEE, Ph.D. (Temple), *Associate Professor*: Mass communication, mass media law; also *Associate Professor, Legal Studies*.

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.

CHARLES PAVITT, Ph.D. (Wisconsin), *Associate Professor*: Communication theory, interpersonal and small group communication, language.

ELIZABETH M. PERSE, Ph.D. (Kent State), *Professor*: Uses and effects of mass media, interface of personal and mediated communication.

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.

PHILLIP WESCOTT, M.A. (Indiana University), *Instructor*: Public Relations.

Adjunct Appointment

Student Life: CHARLES L. TARVER.

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.*
- 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, innovative transport layer services and protocols.*
- 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), *Associate 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, software testing.*
- 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.*
- VIJAY K. SHANKER, 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, DAVID L. MILLS.*
- Mathematical Sciences: ROBERT P. GILBERT.*
- Adjunct Faculty: JOHN K. SCOGGIN, JR.*

English

- JERRY C. BEASLEY, Ph.D. (Northwestern), *Professor and Chair: Novel, eighteenth century literature.*
- DEBORAH ANDREWS, M.A. (Wyoming), *Professor: Business and Technical Communications.*
- ANN L. ARDIS, Ph.D. (Virginia), *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.*
- STEPHEN A. BERNHARDT, Ph.D. (Michigan), *Andrew B. Kirkpatrick, Jr., Chair in Writing.*
- D. HEYWARD BROCK, Ph.D. (Kansas), *Professor: Renaissance literature.*
- R. JOHN BROCKMANN, D.A. (Michigan), *Professor: Business and Technical Communications.*
- 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.*
- JAMES M. DEAN, Ph.D. (Johns Hopkins), *Professor: Medieval literature.*
- JOAN DeFATTORE, Ph.D. (Penn State), *Professor: Literature and pedagogy; also Professor, Legal Studies.*
- PETER FENG, Ph.D. (Iowa), *Associate Professor: Asian-American film.*
- PHILIP D. FLYNN, Ph.D. (Maryland), *Professor: Romantic literature.*
- BARBARA T. GATES, Ph.D. (Bryn Mawr), *Alumni Distinguished Professor: Victorian literature.*
- SUSAN GOODMAN, Ph.D. (New Hampshire), *Professor: American literature and English education.*
- JONATHAN H. GROSSMAN, Ph.D. (Pennsylvania), *Associate 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: Composition.*
- STEVEN HELMLING, Ph.D. (Rutgers), *Professor: Modern literature.*
- CAROL HENDERSON, Ph.D. (California, Riverside), *Associate Professor: African-American literature.*
- M. DENNIS JACKSON, Ph.D. (Arkansas), *Professor: Modern literature.*
- JOHN F. JEBB, Ph.D. (Delaware), *Assistant Professor, also Assistant Director of Writing for Writing Programs: Composition.*
- 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: Composition.*
- KEVIN J. KERRANE, Ph.D. (North Carolina), *Professor: Drama, literary criticism.*
- MATTHEW KINSERVIK, Ph.D. (Pennsylvania State), *Associate 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 of Writing* Rhetoric and composition.
- MARILYN NELSON, Ph.D. (Minnesota), *Professor* Poetry, African-American Literature.
- 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* Nineteenth century American studies, American feminist writing, feminist theory.
- ELLEN I. PIFER, Ph.D. (California, Berkeley), *Professor*, also, *Professor, Comparative Literature* Modern literature, novel.
- KRISTEN E. POOLE, Ph.D. (Harvard), *Associate 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*; also *Director of Graduate Studies in English* 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.
- 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), *Assistant Professor* Business and Technical Communications.
- BEN YAGODA, M.A. (Pennsylvania), *Professor* Journalism, non-fiction writing, twentieth century American culture and literature.
- JULIAN D. YATES, Ph.D. (UCLA), *Associate Professor* Renaissance literature.
- Joint and Adjunct Appointments**
- Biological Sciences*: RIVERS SINGLETON.
- Communication*: RALPH BEGLEITER, JULIET DEE.
- Linguistics*: LOUIS ARENA.
- Adjunct Faculty*: HORST ARNDT, WERNER ENNINGER.
- Foreign Languages and Literatures**
- RICHARD A. ZIPSER, Ph.D. (Johns Hopkins), *Professor and Chair* German.
- ALI ALALOU, Ph.D. (California, Davis), *Assistant Professor* French.
- SUSAN A. AMERT, Ph.D. (Yale), *Associate Professor* Russian.
- RUTH J. BELL, M.A. (Marquette), *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.
- JIANGUO CHEN, Ph.D. (University of California, Davis), *Assistant Professor* Chinese.
- KATRIEN CHRISTIE, Ph.D. (Delaware), *Assistant Professor* Italian.
- DONNA COULET DU GARD, M.A. (Delaware), *Instructor* French.
- JORGE H. CUBILLOS, Ph.D. (Penn State), *Associate Professor* Spanish.
- ANNY D. CURTIUS, Ph.D. (Montreal), *Assistant Professor* French and comparative literature.
- JAMES DeJONG, M.A. (Delaware), *Instructor* 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), *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.
- GLADYS M. ILARREGUI, Ph.D. (Catholic University), *Assistant Professor* Spanish.
- 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.
- VINCENT T. MARTIN, Ph.D. (New York), *Assistant Professor* Spanish.
- AMERICA MARTINEZ, 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), *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, Ph.D. (Johns Hopkins), *Assistant Professor* Italian.
- LAURA A. SALSINI, Ph.D. (Indiana), *Associate Professor* Italian.
- CYNTHIA SCHMIDT-CRUZ, Ph.D. (Wisconsin), *Assistant Professor* Spanish.
- ALEXANDER R. SELIMOV, Ph.D. (Pennsylvania), *Associate 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), *Associate Professor* French and comparative literature.
- BRUNO THIBAUT, Ph.D. (Paris X) and Ph.D. (Maryland), *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

- DANIEL J. LEATHERS, Ph.D. (Penn State), *Professor and Chair*: Global climate variations, snow fall and snow cover, atmospheric dynamics.
- 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.
- 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 pealoeology.
- PETER W. REES, Ph.D. (California, Berkeley), *Associate Professor; also Coordinator, Latin American Studies Program*: 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.
- CORT J. WILLMOTT, Ph.D. (California, Los Angeles), *Professor; also Professor, College of Marine Studies*: Climatology, quantitative methods.

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.

Geology

- JAMES E. PIZZUTO, Ph.D. (Minnesota), *Professor and Chair*: Geomorphology.
- 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, geoarcheology, 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), *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.
- ALLAN M. THOMPSON, Ph.D. (Brown), *Associate Professor*: Petrology, structural geology, sedimentology and paleoenvironmental analysis, tectonics.

JOHN F. WEHMILLER, Ph.D. (Columbia), *Professor; also Professor, College of Marine Studies*: Organic geochemistry, Quaternary geochronology, coastal plain Quaternary stratigraphy.

Joint and Adjunct Appointments

- Delaware Geological Survey*: RICHARD N. BENSON.
- Adjunct Faculty*: DAVID E. KRANTZ, JOHN D. WIK.

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, nineteenth century U.S. history.
- SUZANNE AUSTIN ALCHON, Ph.D. (Duke), *Professor; also Acting Chair, Art Department*: 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), *Professor*: U.S. social history, history of women.
- JAMES M. BROPHY, Ph.D. (Indiana), *Associate Professor*: German history, European social and political history.
- DANIEL F. CALLAHAN, Ph.D. (Wisconsin), *Professor*: Medieval Europe.
- RAYMOND A. CALLAHAN, Ph.D. (Harvard), *Professor; also Associate Dean, College of Arts and Science*: Military history, twentieth century Britain.
- JESUS CRUZ, Ph.D. (California, San Diego), *Associate Professor*: Iberian history, European social history.
- JAMES C. CURTIS, Ph.D. (Northwestern), *Professor and Director, Wintthur Program in Early American Culture*: Material culture, visual history, documentary photography.
- CARA DELRAY, Ph.D. (Brandeis), *Assistant Professor*: Ireland, Britain, Modern Europe, women and gender.
- LAWRENCE G. J. DUGGAN, Ph.D. (Harvard), *Professor*: Renaissance and Reformation, medieval church.
- GERALD FIGAL, Ph.D. (Chicago), *Associate Professor*: Japanese history, East Asian civilizations.
- J. RITCHIE GARRISON, Ph.D. (Pennsylvania), *Associate Professor; also Associate Director, Museum Studies*: eighteenth and nineteenth century U.S. history and material culture.
- SUSAN M. GAUSS, Ph.D. (SUNY at Stony Brook), *Assistant Professor*: Latin America, Mexico.
- CHRISTINE L. HEYRMAN, Ph.D. (Yale), *Professor*: American Colonial history, history of American religion.
- CAROL E. HOFFECKER, Ph.D. (Harvard), *Richards Professor of History*: State and local history, urban history.
- JOHN J. HURT, Ph.D. (North Carolina), *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, American economic and intellectual history to 1800.
- RUDI MATTHEE, Ph.D. (California, Los Angeles), *Associate Professor*: Middle Eastern history, Iran.
- GARY MAY, Ph.D. (California, Los Angeles), *Professor*: U.S. diplomatic relations, America since 1945.
- MARK W. McLEOD, Ph.D. (California, Los Angeles), *Associate Professor*: World history, Modern East and Southeast Asia, Vietnam and revolutionary movement.

- DONALD H. MEYER, Ph.D. (California, Berkeley), *Professor*: American intellectual history.
- ARWEN MOHUN, Ph.D. (Case Western), *Associate Professor*: History of technology, American industrialization, gender and work.
- JOHN PATRICK MONTANO, Ph.D. (Harvard), *Associate Professor*: Tudor-Stuart England, early English politics, sixteenth and seventeenth England and Ireland.
- 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.
- JONATHAN RUSS, Ph.D. (Delaware), *Assistant Professor*: 20th century U.S. history, U.S.-East Asian relations.
- STUART SEMMEL, Ph.D. (Harvard), *Assistant Professor*: Modern British history, European cultural history.
- DAVID R. SHEARER, Ph.D. (Pennsylvania), *Associate Professor*; also *Coordinator, University of Delaware - Hagley Program*: European technology, Soviet history.
- STEVEN E. SIDEBOTHAM, Ph.D. (Michigan), *Professor*: Greek and Roman history, classical archaeology.
- 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*: nineteenth century U.S. history.
- OWEN C. WHITE, Ph.D. (Oxford), *Assistant Professor*: Modern France, French Empire, West Africa.
- RAYMOND B. WOLTERS, Ph.D. (California, Berkeley), *Thomas Muncy Keith Professor*: Twentieth-century U.S., race relations.

Joint Appointments

- Art History*: BERNARD L. HERMAN.
- Black American Studies*: HOWARD B. JOHNSON.
- Criminal Justice*: ERIC W. RISE.
- Economics*: FARLEY GRUBB.
- Individual and Family Studies*: TAMARA K. HAREVEN.

Legal Studies

- KENNETH J. KOFORD, Ph.D. (UCLA), *Professor and Director*; also *Professor of Economics, Political Science*: Public choice, contract theory, industrial organization.
- JOSEPH I. DANIEL, Ph.D. (Minnesota), J.D. (Northwestern), *Associate Professor*; also *Associate Professor of Economics*: Law and economics.
- JULIET L. DEE, Ph.D. (Temple), *Associate Professor*; also *Associate Professor of Communication*: Mass media law.
- JOAN DeFATTOR, Ph.D. (Penn State), *Professor*; also *Professor of English*: First Amendment rights in schools.
- JOSHUA M. DUKE, Ph.D. (Wisconsin), *Assistant Professor, Legal Studies*; also *Assistant Professor, Food and Resource Economics*.
- CHARLES M. ELSON, J.D. (Virginia), *Professor, Legal Studies*; also, *Edgar S. Woolard, Jr. Chair in Corporate Governance*.
- GERARD J. MANGONE, Ph.D. (Harvard), *Professor*; also *University Research Professor, Marine Studies*: Maritime and international law.
- NANCY LEE SCHWEDA-NICHOLSON, Ph.D. (Georgetown), *Professor*; also *Professor, Linguistics*: Court interpretation, bilingualism.

Joint Appointments

- Sociology*: KENNETH HAAS, VALERIE HANS, ERIC RISE, GERALD TURKEL.
- Urban Affairs and Public Policy*: LELAND WARE.

Liberal Studies Program Advisory Committee

- GARY MAY, Ph.D. (California, Los Angeles), *Program Director*; also *Professor, History*.
- D. HEYWARD BROCK, Ph.D. (Kansas), *Professor, English*.

- JOANN BROWNING, M.F.A. (Southern Methodist) *Professor, Theatre*.
- RAYMOND A. CALLAHAN, Ph.D. (Harvard), *Associate Dean, College of Arts and Science*; also *Professor, History*.
- MARTHA L. CAROTHERS, M.F.A. (Pennsylvania State University), *Associate Dean, College of Arts and Science*; also *Professor, Art: Visual communications*.
- ANNE COLWELL, Ph.D. (Delaware), *Coordinator, MALS Program*; also *Associate Professor, English*.
- JOHN DEINER, Ph.D. (Rutgers), *Associate Professor, Political Science and International Relations*.
- KAREN ROSENBERG, Ph.D. (Michigan), *Associate Professor, Anthropology*; also *Chair, Anthropology Department*.
- DAVID SMITH, Ph.D. (Wisconsin), *Associate Professor, Biological Sciences*.

Linguistics

- WILLIAM J. IDSARDI, Ph.D. (M.I.T.), *Associate Professor and Chair*: Phonology, phonetics, morphology.
- LOUIS A. ARENA, Ph.D. (Georgetown), *Associate Professor, also Associate Professor, English*: Applied linguistics, ESL, composition, Japanese.
- BENJAMIN BRUENING, Ph.D. (M.I.T.), *Assistant Professor, Linguistics*: Syntax, psycholinguistics, Native American languages.
- 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.
- NANCY LEE SCHWEDA-NICHOLSON, Ph.D. (Georgetown), *Professor*: Interpretation, bilingualism, French; also *Professor, Legal Studies*.
- SATOSHI TOMIOKA, Ph.D. (Massachusetts), *Assistant Professor*; also *Director of Graduate Studies*: 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, VIJAY K. SHANKER.
- Education*: ROBERTA M. GOLINKOFF, RICHARD L. VENEZKY.
- Psychology*: BRIAN P. ACKERMAN.
- Adjunct Faculty*: CHERYL SMITH.

Mathematical Sciences

- PHILIP BROADBRIDGE, Ph.D. (Adelaide, Australia), *Professor and Chair*: Mathematical physics.
- DAVID O. OLAGUNJU, Ph.D. (Northwestern), *Associate Professor and Associate Chair*: Applied mathematics.
- 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.
- RICHARD BRAUN, Ph.D. (Northwestern), *Associate Professor*: Perturbation, computational methods.
- MICHAEL A. BROOK, M.S. (Northeastern Illinois), *Preparatory Math Educator*.
- JINFANG 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.
- L. PAMELA COOK-IOANNIDIS, Ph.D. (Cornell), *Professor*: Applied mathematics, perturbation theory and transonic flow.

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), *Associate 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.*

DAVID HALLENBECK, Ph.D. (SUNY, Albany), *Professor: 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), *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.*

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.*

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.*

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

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

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

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

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), *Associate 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: 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

KATHRYN H. HEWITT, M.S. (Southern California), *Lieutenant Colonel, United States Army, Professor and Chair.*

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

BRIAN T. CASHMAN, B.S. (Massachusetts), *Captain, United States Army; Operations Officer and Assistant Professor.*

BARBARA A. JONES, *Staff Sergeant, United States Army; Supply Supervisor.*

GREGG O'NEILL, B.S., (Radford), *Captain, United States Army; Enrollment and Scholarship Officer and Assistant Professor.*

WILLIAM E. RHOADES, B.S. (Wilmington College), *Major, United States Army National Guard; Executive Officer and Assistant Professor.*

JOSEPH B. SAUNDERS, *United States Army Civilian; Records Technician.*

HOWARD E. STROTHER, *Sergeant First Class, United States Army; Instructor.*

Museum Studies

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

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), *Professor; also Professor of Art History and Professor, Urban Affairs and Public Policy.*

Music

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

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

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

JENNIFER BARKER, Ph.D. (Pennsylvania), *Assistant Professor: Music theory and composition.*

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

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

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

MARY DUNNACK, B.M. (Houghton College), *Administrator for Recruiting, Admissions, and Scholarship.*

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.*

XIANG GAO, M.M. (Michigan), *Assistant Professor: Violin and Viola.*

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

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

PAUL D. HEAD, M.M. (Westminster Choir College), *Assistant Professor: Director of Choral Studies.*

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

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

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.*

JAMES C. PRODAN, DMA (Ohio State University), *Professor and Chair: Oboe.*

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

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

LLOYD C. SHORTER, B.F.A. (Ithaca), *Instructor*: 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.

Philosophy

FREDERICK ADAMS, Ph.D. (Wisconsin), *Professor and Chair*: Epistemology, cognitive 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, nineteenth century philosophy.

KAI DRAPER, Ph.D. (University of California, Irvine), *Assistant Professor*: Ethics and philosophy of law.

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.

MARK GREENE, Ph.D. (Stanford University), *Assistant Professor*: Bioethics.

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

RICHARD M. HANLEY, Ph.D. (Maryland), *Assistant Professor*: Philosophy of language, metaphysics, ethics.

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.

KATHERIN A. ROGERS, Ph.D. (Notre Dame), *Associate 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.

NOEL M. GOODSTADT, M.C.P. (Hahnemann University), *Physical Therapist*: Physical Therapy Clinic.

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), *Professor*: Examination of rehabilitation protocols following ACL repair.

Physics and Astronomy

JAMES MacDONALD, Ph.D. (Cambridge), *Professor and Acting Chair*: Astronomy and astrophysics, white dwarfs, cataclysmic variables.

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

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

JOHN GIZIS, Ph.D. (Caltech), *Assistant Professor*: Astronomy and astrophysics, brown dwarfs.

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

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.

JOHN D. MORGAN, Ph.D. (California, Berkeley), *Associate Professor*: Theoretical atomic and molecular physics.

NORBERT MULDER, Ph.D. (Delaware), *Associate Professor*: Condensed matter, low temperatures.

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

ISMAT SHAH, Ph.D. (Illinois), *Associate Professor*: Thin films, surfaces and interfaces.

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), *Unidel Professor and Associate Dean*: 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.

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: S. ISMAT SHAH.

Bartol Research Institute

STUART PITTEL, Ph.D. (Minnesota), *Professor and Director*: Theoretical nuclear physics, nuclear astrophysics.
 STEPHEN M. BARR, Ph.D. (Princeton), *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*: Particle physics and particle 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.
 NORMAN F. NESS, Ph.D. (M.I.T.), *Professor*: Space physics, planetary and interplanetary magnetism.
 STANLEY P. OWOCKI, Ph.D. (Colorado), *Professor*: Astrophysics, stellar atmospheres, winds and disks.
 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.

Political Science and International Relations

JOSEPH A. PIKA, Ph.D. (Wisconsin), *Acting Chair, also Professor*: American and public administration.
 WILLIAM H. MEYER, Ph.D. (Iowa), *Professor and Associate Chair*: International relations.
 ALICE BA, Ph.D. (Virginia), *Assistant Professor*: East Asia and comparative politics.
 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), *Associate 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), *Associate Professor*: International development and comparative public administration.
 MATTHEW HOFFMANN, Ph.D. (George Washington), *Assistant Professor*: Global governance, environmental politics.
 MARK W. HUDDLESTON, Ph.D. (Wisconsin), *Professor; also, Dean, College of Arts and Science; also Professor, Urban Affairs and Public Policy*: Public administration.
 DAVID E. INGERSOLL, Ph.D. (Claremont), *Professor*: Political philosophy.
 JANET B. JOHNSON, Ph.D. (Cornell), *Associate Professor; also Associate Professor, Urban Affairs and Public Policy*: Environmental policy, state and local government, research methods.
 KENNETH J. KOFORD, Ph.D. (UCLA), *Professor*: Public choice, contract theory, industrial organization; *also Professor, Economics; also Professor and Director, Legal Studies*.

JAMES MAGEE, Ph.D. (Virginia), *Professor*: Public law.
 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.
 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, 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

BRIAN P. ACKERMAN, Ph.D. (SUNY, Stony Brook), *Professor and Acting Chair, also Professor, Linguistics*: Cognitive development, emotional development, developmental risk.
 LAWRENCE H. COHEN, Ph.D. (Florida State), *Professor and Associate Chair*: Stressful life events, coping, personality.
 GEORGE A. CICALA, Ph.D. (Princeton), *Professor*: Avoidance conditioning, strategies in learning.
 RITA Y. COHEN, Ph.D. (Florida State), *Associate Professor; also Director, Psychological Services*: Health psychology.
 THOMAS M. DILORENZO, Ph.D. (West Virginia), *Professor*: Health psychology, addictive behaviors, tobacco use, exercise and mood.
 MARY DOZIER, Ph.D. (Duke), *Associate Professor*: Attachment, schizoprenia, 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.

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*; also *Coordinator, Neuroscience*: 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), *Associate Professor*: Neurobiology of emotional behaviors, molecular and pharmacological substrates of fear and anxiety.

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

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.

MARK E. STANTON, Ph.D. (Texas-Austin), *Associate Professor*: Development and neural basis of learning and memory; developmental disorders.

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

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: MICHAEL FERRARI

Physical Therapy: JAMES C. GALLOWAY

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; also *Professor, Legal Studies*.

BENIGNO E. AGUIRRE, Ph.D. (Ohio State), *Professor*: Collective behavior/social movements, race/ethnic/minority relations.

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

TAMMY L. ANDERSON, Ph.D. (The American University), *Assistant Professor and Ethnographer for the Center for Drug and Alcohol Studies*: Drug abuse, HIV, and crime.

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

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.

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.

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; also *Professor, Legal Studies*.

VALERIE P. HANS, Ph.D. (Toronto), *Professor*: Psychology of law, law and social science; also *Professor, Legal Studies*.

LANA D. HARRISON, Ph.D. (Michigan), *Associate Professor*; also *Associate Director, Center for Drug and Alcohol Studies*: Alcohol and drugs, criminology/delinquency, social psychology.

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.

SUSAN MILLER, Ph.D. (Maryland), *Professor*: Criminology, sex and gender, policing.

JOANNE M. NIGG, Ph.D. (California, Los Angeles), *Professor*: Collective behavior, social movements, social psychology.

CYNTHIA ROBBINS, Ph.D. (Michigan), *Professor*: Substance abuse, deviance, social epidemiology.

FRANK R. SCARPITTI, Ph.D. (Ohio State), *Edward F. and Elizabeth G. Rosenberg Professor of Sociology*: Deviant behavior, crime and delinquency.

BENJAMIN STEINER, Ph.D. (Northeastern), *Assistant Professor*: Justice decision making, social control, intersections of race, culture and criminal punishment.

KATHLEEN J. TIERNEY, Ph.D. (Ohio State), *Professor*; also *Co-Director, Disaster Research Center*: Collective behavior, qualitative methods.

GERALD M. TURKEL, Ph.D. (California, Santa Barbara), *Professor*: Social theory, social psychology; also *Professor, Legal Studies*.

Joint and Adjunct Appointments

Black American Studies: CAROLE C. MARKS

Urban Affairs and Public Policy: ROBERT A. WILSON

Adjunct Faculty: EMMA JEAN JOSEPH, MARGIE KITER EDWARDS, CHARLES M. OBERLY III, ROBERT J. O'NEIL, JOHN J. POLK, EMILY REED

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), *Associate Professor*: Stage speech, voice 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, Ph.D. (Wisconsin), *Associate Professor, History*: Women's studies, antebellum America.
 MARTIN BRUECKNER, Ph.D. (Brandeis), *Assistant Professor*: Colonial American literature.
 LU ANN DE CUNZO, Ph.D. (Pennsylvania), *Associate Professor, Anthropology*: Archaeology and material culture.
 J. RITCHIE GARRISON, Ph.D. (Pennsylvania), *Associate Director, Museum Studies Program, also Associate Professor, History*: Colonial period, material culture.
 ANN E. GIBSON, Ph.D. (University of Delaware), *Professor and Chair, Art History*: Contemporary and American art, African-American art.
 CAROLE HABER, Ph.D. (Pennsylvania), *Professor and Chair*: U.S. history, social history, aging and medicine.
 BERNARD L. HERMAN, Ph.D. (Pennsylvania), *Edward F. and Elizabeth Goodman Rosenberg Professor, Art History, also Director, Center for American Material Culture Studies*: Folklore and folklife, material culture.
 CHRISTINE HEYRMAN, Ph.D. (Yale), *Professor, History*: Colonial period.
 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.
 MICHAEL LEJA, Ph.D. (Harvard), *Sewell C. Biggs Chair in American Art*.
 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*.
 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), *Director, Museum Studies Program; also Professor, History and Professor, Art History*: American decorative arts.

Joint and Adjunct Appointments

Adjunct Faculty: GRETCHEN T. BUGGELN, WENDY COOPER, LINDA EATON, PAULINE EVERSMANN, DONALD L. FENNIMORE, LESLIE GRIGSBY, PATRICIA HALFPENNY, CHARLES F. HUMMEL, JR., BROCK JOBE, GARY KULIK, RICH McKINSTRY, NEVILLE THOMPSON, ANNE VERPLANCK.

Women's Studies

MARIAN LIEF 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.
 ERICA ARMSTRONG, Ph.D. (Columbia), *Assistant Professor; also Assistant Professor, History*: African American history, women's history, nineteenth century U.S. history.
 GRETCHEN BAUER, Ph.D. (Wisconsin), *Associate Professor; also Associate Professor, Political Science and International Relations*: African and comparative studies.
 KAREN BAUER, Ph.D. (Maryland), *Assistant 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), *Professor; also 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.
 PETER FENG, Ph.D. (Iowa), *Professor; also Associate 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 Chairperson, Economics*: Labor economics.
 MARIE LABERGE, Ph.D. (Wisconsin), *Assistant Professor*: Twentieth century American history, U.S. women's history.
 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), *Professor; also Professor, Foreign Languages and Literatures*: Spanish and comparative literature.
 SUSAN MILLER, Ph.D. (Maryland), *Professor; also Professor, Sociology and Criminal Justice*: Criminology, sex and gender, policing.
 RUSSELL E. MURRAY, Ph.D. (North Texas), *Associate Professor; also Acting Chair, 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.
 KAREN ROSENBERG, Ph.D. (Michigan), *Associate Professor; also Chair, Anthropology*: Paleoanthropology, human locomotion and birth, Neanderthals.
 JESSICA SCHIFFMAN, M.A. (Delaware), *Assistant Director*: Gender and violence.
 MARGARET STETZ, Ph.D. (Harvard), *Visiting Associate Professor*: Women and literature, British 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*: 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.*
TIM GOECK, M.F.A. (California Institute of the Arts), *Head
Exhibition Designer.*

University Parallel Program

HELEN EASTERLING WILLIAMS, Ed.D. (Delaware), *Senior Assistant
Dean, University Parallel Program and Wilmington Parallel.*

Wilmington Campus

JOHN D. ANDERSON, Ph.D. (Delaware), *Associate Professor of Mathematics.*
JOHN A. BARTLEY, Ph.D., (Delaware), *Assistant Professor of Biology.*
PHILIP GOLDSTEIN, Ph.D. (Temple), *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

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.*
JAMES KEEGAN, Ph.D. (Delaware), *Assistant Professor of English.*
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.*
JACK BAROUDI, Ph.D. (NYU), *Associate Dean, also Professor of
Accounting and Management Information Systems.*
TERRY M. WHITTAKER, M.A. (Minnesota), *Assistant Dean.*

Accounting and Management Information Systems

E. KENT ST. PIERRE, Ph.D. (Washington), C.P.A., *Professor and Chair
Financial accounting.*
JACK BAROUDI, Ph.D. (NYU), *Professor Accounting; also, Associate
Dean, College of Business Economics.*
JOSEPH A. BRADY, Ph.D. (Delaware), *Instructor.*
DALE BUCKMASTER, Ph.D. (Penn State), C.P.A., *Professor Financial
accounting.*
SPRING DAVIDSON, B.S. (Delaware), *Instructor.*
ARAYA DEBESSAY, Ph.D. (Syracuse), C.P.A., C.M.A., C.I.A., *Professor
Auditing and financial accounting.*
DORRIE DELUCA, Ph.D. (Temple), *Assistant Professor Management
Information Systems.*
GLORIA ZOOK DIODATO, M.B.A. (Delaware), *Project Director for the
MIS minor.*
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.*
MICHAEL J. GINZBERG, Ph.D. (MIT), *Professor; also Dean, College of
Business Economics.*
THOMAS J. HOFFERD, Ph.D. (Central Florida), C.P.A., *Assistant
Professor Information Systems.*
DAVID S. JENKINS, Ph.D. (Maryland), C.P.A., *Assistant Professor
Auditing and financial accounting.*
SCOTT K. JONES, Ph.D. (Drexel), *Professor Management accounting,
entrepreneurship.*
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.*
CAROL RYAN, M.A. (Georgia), *Instructor.*
WINIFRED SCOTT, Ph.D. (Florida State), C.P.A., *Assistant Professor
Financial accounting.*
MARK A. SERVA, Ph.D. (Texas), *Assistant Professor Information Systems.*
CLAUDIO SPIGUEL, Ph.D. (Michigan), *Professor MIS.*
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), *Professor Information systems
and auditing.*
JOHN H. WRAGGE, Ph.D. (Houston), C.P.A., *Associate Professor
Management accounting and information systems.*

Business Administration

JOHN E. SAWYER, Ph.D. (Illinois), *Chair*; also *Associate Professor*: Management.
 RICK L. ANDREWS, Ph.D. (Virginia Tech), *Associate Professor*: Marketing.
 JOHN H. ANTIL, Ph.D. (Penn State), *Associate Professor*: Marketing.
 KARL F. AQUINO, Ph.D. (Northwestern), *Associate Professor*: Management.
 MARK BAMBACH, M.B.A. (LaSalle), *Instructor*: Marketing.
 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.
 DARWIN J. DAVIS, Ph.D. (Indiana), *Assistant Professor*: Operations management.
 YANCY EDWARDS, Ph.D. (Ohio), *Assistant Professor*: Marketing.
 DIANE L. FERRY, Ph.D. (Pennsylvania), *Associate Professor*: Management.
 SANDRA M. FIELDS, M.B.A. (Radford), *Instructor*: Marketing.
 DANIEL FREEMAN, Ph.D. (Arizona), *Assistant Professor*: Marketing.
 MERYL P. GARDNER, Ph.D. (Carnegie-Mellon), *Associate Professor*: Marketing.
 HOWARD GARLAND, Ph.D. (Cornell), *Chaplin Tyler Professor of Business*: Management.
 WILLIAM V. GEHRLEIN, Ph.D. (Penn State), *Professor*: Operations Management.
 VICTOR GIARDINI, M.S. (Drexel), *Instructor*: Management.
 MICHAEL J. GINZBERG, Ph.D. (MIT), *Professor*; also *Dean, College of Business and Economics*.
 JENNIFER GREGAN-PAXTON, Ph.D. (Minnesota), *Assistant Professor*: Marketing.
 ROBERT J. KENT, Ph.D. (Cincinnati), *Associate Professor*: Marketing.
 MARY C. KERNAN, Ph.D. (Akron), *Associate Professor*: Management.
 HEMANT KHER, Ph.D. (South Carolina), *Assistant Professor*: Operations management.
 JOHN L. KMETZ, D.B.A. (Maryland), *Associate Professor*: Management.
 YASEMIN KOR, Ph.D. (Illinois), *Assistant Professor*: Management.
 CHRISTINE T. KYDD, Ph.D. (Pennsylvania), *Associate Professor*: Operations management.
 NING LI, Ph.D. (Duke), *Assistant Professor*: Marketing.
 AJAY K. MANRAI, Ph.D. (Northwestern), *Professor*: Marketing.
 LALITA A. MANRAI, Ph.D. (Northwestern), *Professor*: Marketing.
 VILMOS MISANGYI, Ph.D. (Florida), *Assistant Professor*: Management.
 JOHN F. PREBLE, Ph.D. (Massachusetts), *Associate Professor*: Management.
 ERWIN M. SANIGA, Ph.D. (Penn State), *Dana J. Johnson Professor and Area Head for Operations Management*: Operations.
 STEWART A. SHAPIRO, Ph.D. (Arizona), *Associate Professor*: Marketing.
 DANIEL P. SULLIVAN, Ph.D. (South Carolina), *Associate Professor*: Management.
 ANTHONY TOWNSEND, Ph.D. (Virginia Polytech), *Assistant Professor*: Information technologies management.
 SHARON WATSON, Ph.D. (South Carolina), *Assistant Professor*: 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

SAUL D. HOFFMAN, Ph.D. (Michigan), *Professor and Chair*: Labor economics.
 MICHAEL A. ARNOLD, Ph.D. (California, Los Angeles), *Associate Professor and Associate Chair*: Microeconomics.
 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.
 STACIE BECK, Ph.D. (Pennsylvania), *Associate Professor*: Monetary economics.

DAVID E. BLACK, Ph.D. (M.I.T.), *Associate Professor*: Microeconomics.
 JAMES L. BUTKIEWICZ, Ph.D. (Virginia), *Professor*: Macroeconomics.
 ELEANOR D. CRAIG, M.A. (Pennsylvania), *Associate Professor*: Public finance.
 JOSEPH I. DANIEL, Ph.D. (Minnesota), *Associate Professor*: Industrial organization; also *Associate Professor, Legal Studies*.
 LAWRENCE P. DONNELLEY, Ph.D. (Brown), *Associate Professor*: International economics.
 EVANGELOS M. FALARIS, Ph.D. (Minnesota), *Associate Professor*: Development economics.
 CONRADO M. GEMPESAW II, Ph.D. (Penn State), *Professor*; also, *Professor, Food and Resources Economics*: Production economics, agricultural finance, and statistics; also, *Vice Provost for Academic and International Programs*.
 FARLEY GRUBB, Ph.D. (Chicago), *Professor*; also *Professor, History*: Economic history.
 WILLIAM HARRIS, Ph.D. (Virginia Tech), *Associate Professor*: Microeconomics.
 KENNETH J. KOFORD, Ph.D. (California, Los Angeles), *Professor*; also *Professor, Political Science*: Public choice, contract theory, industrial organization; also *Professor and Director, Legal Studies*.
 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 of Business*: 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.
 SIYAN WANG, Ph.D. (Southern California), *Assistant Professor*: Econometrics.
 RAVINDRA YATAWARA, Ph.D. (Columbia), *Assistant Professor*: International economics.
 JOHN S. YING, Ph.D. (California, Berkeley), *Associate Professor*: Industrial organization.

Joint Appointments

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.
 THOMAS W. BATES, Ph.D. (Pittsburgh), *Assistant Professor*: 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, corporate governance.
 JAY F. COUGHENOUR, Ph.D. (Arizona), *Assistant Professor*: Investments, financial markets, market microstructure.
 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; also *Professor, Legal Studies*.

STUART GILLAN, Ph.D., (Texas), *Assistant Professor*: Corporate governance, institutional investors and capital markets.

JEFFREY H. HARRIS, Ph.D. (Ohio State), *Assistant Professor*: Investments, financial markets, market microstructure.

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

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), *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*.

DICK J. WILKINS, Ph.D. (University of Oklahoma), *Associate Dean; also Professor, Mechanical Engineering*.

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

CHRISTINE E. COOK, M.Ed. (Delaware), *Assistant Dean, Finance and Operations*.

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*.

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

JOSEPH C. TANNER, B.S. (Penn State), *Coordinator, Engineering Outreach*.

Air Force ROTC

JEFFERY W. WANDREY, M.S. (Dayton), *Lieutenant Colonel, United States Air Force, Professor and Chair*.

STEPHEN K. HORNISH, M.Ed. (Loyola), *Major, United States Air Force; Assistant Professor*.

MICHAEL G. PEPPER, M.Ed. (Wilmington College), *Major, United States Air Force; Assistant Professor*.

Biomechanics and Movement Science

THOMAS S. BUCHANAN, Ph.D., (Northwestern), *Academic Director; also Director of the Center for Biomedical Engineering Research, and Associate Professor, Mechanical Engineering*: Musculoskeletal modelling, EMG-driven biomechanical models, neural control of arm postures, neuromuscular mechanisms of knee joint stability.

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

DAVID A. BARLOW, Ph.D. (Indiana), *Associate Professor, 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 and Chair, Physical Therapy*: Neurophysiology, relationship between activation frequency and force output of skeletal muscle, muscle fatigue.

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.

NANCY GETCHELL, Ph.D. (Wisconsin), *Assistant Professor, Health and Exercise Science*: Development of interlimb coordination and motor control in multilimb tasks.

SUSAN J. HALL, Ph.D. (Washington State), *Professor and Chair, Health and Exercise Sciences*: Lumbar spine biomechanics, exercise efficacy, sport biomechanics.

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

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

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

JOHN E. NOVOTNY, Ph.D. (Vermont), *Assistant Professor, Department of Mechanical Engineering*: Orthopaedic biomechanics: shoulder and spine, kinematic and material testing and analytical modeling; tissue mechanics: analysis of mechanical behavior of ligaments, tendon and cartilage, study of the effects of injury and healing.

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

TODD ROYER, Ph.D. (Arizona State), *Assistant Professor, Health and Exercise Sciences*: Biomechanics and energetics of gait.

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), *Professor, Physical Therapy*: Neuromuscular physiology, applied anatomy, anterior cruciate ligament injury.

JIAN-QIAO SUN, Ph.D. (Berkeley), *Associate Professor, Mechanical Engineering*: Suppression of abnormal tremor, stability of human movement.

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; also Director of the Center for Biomedical Engineering Research, and Director of the Biomechanics and Movement Science Program*.

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.

JOHN E. NOVOTNY, Ph.D. (Vermont), *Assistant Professor*: Orthopaedic biomechanics, tissue mechanics, mathematical modeling.

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*: Orthopedic biomechanics, mechanics of soft tissues.

Chemical Engineering

- MARK A. BARTEAU, Ph.D. (Stanford), *Chair and Robert L. Pigford Professor; also Professor, Chemistry and Biochemistry*: 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.
- JINGGUANG G. CHEN, Ph.D. (Pittsburgh), *Professor*: Surface and interface, nanostructured devices and sensors, environmental catalysis.
- COSTEL D. DENSON, Ph.D. (Utah), *Professor*: Polymer processing and rheology, mixing, mass transfer, chemical reactions.
- PRASAD DHURJATI, Ph.D. (Purdue), *Professor*: Biochemical engineering, process control, artificial intelligence.
- 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.
- ERIC M. FURST, Ph.D. (Stanford), *Assistant Professor*: Complex fluids, cellular biophysics, colloidal science, microrheology, interfacial phenomena.
- 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.
- JOCHEN A. LAUTERBACH, Ph.D. (Free University of Berlin), *Associate Professor*: Development and application of spectroscopic techniques for study of surface processes, high-throughput catalysis, fabrication of conducting polymer nanofilms, non-linear dynamics of heterogeneously catalyzed reactions, time-resolved IR spectroscopy of supported catalysts.
- 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.
- CHRISTOPHER J. ROBERTS, Ph.D. (Princeton), *Assistant Professor*: Kinetics and statistical thermodynamics of liquids, amorphous solids, and proteins; stability prediction, design, and preservation of labile organic molecules in glasses; kinetics and thermodynamics of protein degradation; prediction of physical and chemical stability of proteins.
- 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*: 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.
- DIONISIOS G. VLACHOS, Ph.D. (Minnesota), *Associate Professor*: Reacting flows, catalytic combustion, partial oxidation, surface chemistry, thin films, nonphase materials, membranes, nucleation, growth, multiscale modeling, bifurcation theory.
- NORMAN J. WAGNER, Ph.D. (Princeton), *Professor*: Material micromechanics, interfacial mechanics, adsorption/desorption.
- BRIAN G. WILLIS, Ph.D. (MIT) *Assistant Professor*: Experimental and computational chemistry investigations of chemical processes related to electronic materials, including silicon and compound semiconductors.
- RICHARD P. WOOL, Ph.D. (Utah), *Professor*: Polymer physics, interfaces, composites, dynamics, fracture, biodegradation, materials science.

Joint and Adjunct Appointments

Adjunct Faculty: ROBERT BUTERA, WILLIAM E. FARNETH, ROBERT K. GRASELLI, STEVEN R. LUSTIG, WILLIAM H. MANOGUE, BABATUNDE A. OGUNNAIKE, JOHN R. RICHARDS, MARK R. SCHURE, JAMES S. SCHWABER, RAVI SHARMA, KURT F. WISSBRUN.

Off-Campus Faculty: ARTHUR W. ETHELLES, JAMES J. GRANT, RICHARD K. GRENVILLE, ALLAN E. JONES, RICHARD K. LAROUCHE, KENNETH L. MULHOLLAND, DAVID SHORT, JAMES N. TILTON, ALAN E. UEHLER.

Civil and Environmental Engineering

- MICHAEL J. CHAJES, P.E., Ph.D. (California, Davis), *Professor and Chair*: Structural design and analysis, infrastructure evaluation and rehabilitation.
- HERBERT E. ALLEN, Ph.D. (Michigan), *Professor*: Water and sediment chemistry, heavy metal pollution.
- BAIDURYA BHATTACHARYA, Ph.D. (Johns Hopkins), *Assistant Professor*: Probability mechanics, probability-based modeling and design, structural deterioration and reliability.
- DANIEL KUHUYON CHA, Ph.D. (California, Berkeley), *Associate Professor; also Coordinator, Environmental Engineering*: Process control of biological wastewater treatment facilities, biotransformation of organic and inorganic toxic pollutants, bioenvironmental engineering.
- PEI CHIU, Ph.D. (Stanford), *Associate Professor*: Environmental redox chemistry, halogenated organic pollutants.
- STEVEN K. DENTEL, P.E., Ph.D. (Cornell), *Professor*: Application of colloid and interface science to water and wastewater treatment processes.
- ARDESHIR FAGHRI, Ph.D. (Virginia), *Professor; also Director, Center for Transportation Studies*: Traffic analysis, highway design.
- JOHN W. GILLESPIE, JR., Ph.D. (Delaware), *Professor; also Professor, Materials Science and Engineering and Director, Center for Composite Materials*: Composite materials, experimental mechanics, fracture mechanics, residual stress analysis joining.
- CHIN P. HUANG, P.E., Ph.D. (Harvard), *Distinguished Professor; also Professor, Marine Studies*: Industrial waste management, interfacial phenomena, aquatic chemistry and soil remediation.
- 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; also Director, Center for Applied Coastal Research*: Coastal engineering, coastal structures, sediment transport mechanics.
- DOV LESHCHINSKY, P.E., Ph.D. (Illinois), *Professor; also Coordinator, Graduate Studies*: Soil mechanics, geotechnical engineering.
- DENNIS R. MERTZ, Ph.D. (Lehigh), *Associate Professor; also Director, Center for Innovative Bridge Engineering*: 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: CARMINE BALASCIO, 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, YAN JIN.
Adjunct Appointments: P.C. CHIANG, J. DIMAGGIO, J. DUFFIELD,
 DRISS OUAZAR

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.
 CHARLES G. BONCELET, Ph.D. (Princeton), *Professor*: Signal processing, control theory, digital communications, complexity theory.
 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.
 STEPHAN BOHACEK, Ph.D. (Southern California), *Assistant Professor*: Congestion control, routing, internet security and pricing, ad hoc networks, control theory, biomedical modeling.
 KEITH W. GOOSSEN, Ph.D. (Princeton), *Associate Professor*: Optoelectronics, microwave propagation in electronic packaging, optical fiber communication technology for advanced sensors.
 MICHAEL H. HANEY, Ph.D. (California Institute of Technology), *Professor*: Application of photonic technologies to new computing, switching, and signal processing systems.
 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.
 FOUAD KIAMILIEV, 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.
 BALAJI PANCHAPAKESAN, Ph.D. (Maryland), *Assistant Professor*: Micro- and nano-electromechanical systems (MEMS), nanoscale material synthesis, nanowire chemical sensors, high temperature MEMS, and molecular electronic devices.
 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.
 KEVIN B. THEOBALD, Ph.D. (McGill), *Assistant Professor*: Computer architecture, parallel systems, VLSI, parallel applications.
 DANIEL S. WEILE, Ph.D. (Illinois), *Assistant Professor*: Computational electromagnetics (especially time-domain integral equation based methods), periodic structures, and evolutionary optimization.
 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, ADARSHPAL S. SETHI.
Marine Studies: VICTOR V. KLEMAS.
Mathematical Sciences: M. ZUHAIR NASHED.
Adjunct Faculty: ALLEN M. BARNETT, A. BRINTON COOPER,
 MICHAEL J. PIOVOSO.

Materials Science and Engineering

JOHN F. RABOLT, Ph.D. (Southern Illinois), *Karl W. and Renate Bber Professor and Chair*: Macromolecular assemblies, spectroscopy, thin organic films, biomolecular materials, polymer physics, self-assembled monolayers (SAMs).
 JINGGUANG G. CHEN, Ph.D. (Pittsburgh), *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 Director*, *Center for Composite Materials*: Materials, processing and performance of multifunctional composites.
 KRISTI L. KIICK, Ph.D. (Massachusetts), *Assistant Professor*: Biomaterials, biopolymers, protein engineering, molecular recognition, controlled release, artificial glycoproteins.
 ROBERT L. OPILA, Ph.D. (Chicago), *Professor*: Electronic materials, photonic materials, materials interfaces, electron spectroscopies.
 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.
Marine Studies: STEPHEN C. DEXTER.
Mechanical Engineering: TSU-WEI CHOU, IAN W. HALL, AZAR PARVIZI-MAJIDI.
Adjunct Faculty: ROBERT W. BIRKMIRE, BRUCE FINK, ROBERT K. GRASSELLI, RICHARD IKEDA.
Off-Campus Faculty: D. BRUCE CHASE, ALAN ENGLISH, PRATIBHA GAI, MARK NELSON, MING ZHENG.

Mechanical Engineering

TSU WEI CHOU, Ph.D. (Stanford), *Jerzy L. Nowinski Professor and Chair*: Composite materials, nanomaterials, fracture of solids and applied mechanics.
 MICHAEL KEEFFE, Ph.D. (Minnesota), *Associate Chair for Undergraduate Education*, also *Associate Professor*: Computer-aided design, mechanical design, system modeling and rapid tooling.
 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), *Professor*: Control of mechanical systems, robotics, optimization.
 THOMAS S. BUCHANAN, Ph.D. (Northwestern), *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.
 ANETTE M. KARLSSON, Ph.D. (Rutgers University), *Assistant Professor*: Applied mechanics, solid mechanics, mechanics of films, coating and layered structures, non-linear mechanics, computational mechanics.
 JOHN E. NOVOTNY, Ph.D. (Vermont), *Assistant Professor*: Orthopaedic biomechanics, tissue mechanics, mathematical modeling.

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.

KAUSIK SARKAR, Ph.D. (Johns Hopkins), *Assistant Professor*: Computational fluid mechanics and heat transfer, multiphase flow, bubble/drop dynamics, numerical methods, non-Newtonian fluid mechanics, applied mathematics.

LEONARD W. SCHWARTZ, Ph.D. (Stanford), *Professor; also Professor, Mathematical Sciences*: Fluid mechanics, multiphase flow, applied mathematics.

LIAN-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), *Associate Professor*: Combustion, combustion-generated pollutants, high-temperature chemical kinetics.

LIAN-PING WANG, Ph.D. (Washington State), *Associate Professor*: Computational fluid dynamics, turbulence, multiphase flow, particulate processing.

DICK J. WILKINS, Ph.D. (Oklahoma), *Professor, also Associate Dean, College of Engineering*: Learning, design integration, composites durability and damage tolerance.

Joint and Adjunct Appointments

Bioresources Engineering: JAMES L. GLANCEY

Marine Studies: PABLO HUQ

Adjunct Faculty: RICHARD A. CAIRNCROSS, SHIYI CHEN, T. DENNIS CLAAR, STEPHEN C. DANFORTH, RICHARD ELEY, EDWARD P. GARGULIO, GEORGE GAZONAS, ROGER V. GONZALEZ, WOJCIECH GRABOWSKI, SAID JAHANMIR, FABIAN MAUSS, FREEMAN MILLER, RAY YIN.

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*.

SUZANNE B. CLARK, M.Ed. (Delaware), *Assistant Dean for Student Services*.

J. ROBIN BUCCOS, B.S. (Shippensburg), *Administrative Coordinator*.

JULIA R. COLLINS, B.S. Ed. (Delaware), *Administrative Academic Advisor*.

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

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

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.

JOAN COUCH, M.S., A.T.C. (U.S. Sport Academy), *Assistant Professor*: Athletic training.

KAREN F. EDWARDS, Ed.D. (Temple), *Associate Professor*: Health education.

NANCY GETCHELL, Ph.D. (Wisconsin-Madison), *Assistant Professor*: Motor development.

STEPHEN C. GOODWIN, Ph.D. (Penn State), *Associate Professor*: Health education.

KEITH HANDLING, M.S., P.T., A.T.C. (West Chester), *Associate Professor*: Athletic training.

MICHAEL HIGGINS, M.Ed., A.T.C. (Virginia), *Assistant Professor*: Athletic training.

DAVID HUDSON, MPT (Delaware), *Instructor*: Biomechanics.

JAMES W. KENT, Ph.D. (Iowa), *Associate Professor*:

Curriculum/pedagogical techniques in physical education.

RON E. LUDINGTON, *Director, Ice Skating Science Development Center*.

ROBERT E. NEEVES, Ph.D. (Utah), *Professor*: Exercise physiology.

JOHN J. O'NEILL, M.Ed. (Delaware), *Assistant Professor; also Director, Recreation and Intramurals*.

ELIZABETH ORSEGA-SMITH, Ph.D. (Penn State), *Assistant Professor*: Community health.

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.

MATTHEW J. ROBINSON, Ed.D. (Temple), *Assistant Professor*: Sport management.

TODD ROYER, Ph.D. (Arizona State), *Assistant Professor*: Biomechanics.

JEFF SCHNEIDER, M.S., A.T.C. (Delaware), *Instructor*: Strength training and conditioning.

JOHN SCHUSTER, M.S. (Eastern Illinois), *Instructor*: Aquatics.

JANET A. SMITH, Ed.D. (Delaware), *Associate Professor*: Teacher education, cooperating teachers.

JOHN SMITH, M.S., A.T.C. (West Virginia), *Instructor*: Athletic training.

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: MELISSA CRUICE, GARRETT GIANI, MIKE KING, LOREN E. KLINE.

Medical Technology

ANNA P. CIULLA, M.C.C. (Hahnemann), *Associate Professor and Chair*: Clinical chemistry.

MARGARET R. BRABENDER, B.S. (Belmont), *Laboratory Coordinator*: Phlebotomy, urinalysis, virology, immunology.

KAREN R. BRINKER, B.S. (Delaware), *Instructor*: Clinical chemistry.

DEBORAH COSTA, B.S. (Delaware), *Instructor*: 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, computers, statistics, immunology, virology.

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), *Associate Professor*: Melanoma, cancer metastasis, immunodiagnosics, microbiology.

MARK L. MITCHELL, M.D. (University of Michigan Medical School), *Adjunct Associate Professor and Medical Director*: Anatomic and clinical pathology, molecular biology.

Nursing

LISA PLOWFIELD, Ph.D. (Virginia), *Associate Professor and Chair*: Trauma, critical care.

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), *Instructor*: Family nurse practitioner.

CHRISTINE A. CANNON, Ph.D. (Delaware), *Associate Professor*: Medical-surgical nursing.

SHELIA CUSHING, M.S. (Maryland), *Assistant Professor*: Medical-surgical nursing.

MARGARET B. DADA, M.S.N. (Pennsylvania), *Instructor*: Pediatrics.

PATRICIA DRAKE, M.S.N. (Delaware), *Instructor*: Maternal/child health.

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.

MADLINE LAMBRECHT, Ed.D. (Temple), *Professor; also Director, Division of Special Programs*: Psychiatric and mental health nursing.

LISA McBETH-SNYDER, M.S.N. (California), *Instructor*: Maternal/child health.

CAROL MOORE, M.S. (Pace), *Instructor*: Family nurse practitioner.

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.

CAROLEE POLEK, Ph.D. (Temple), *Assistant Professor*: Medical-surgical nursing.

LARRY PURNELL, Ph.D. (Columbia Pacific), *Professor*: Health services 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, D.N.Sc. (Widener), *Assistant Professor*: Cardiopulmonary nursing, critical care.

JANICE A. SELEKMAN, D.N.Sc. (Pennsylvania), *Professor*: Nursing of children.

BARBARA L. SHEER, D.N.Sc. (Widener), *Associate Professor*: Family nurse practitioner.

MARYBETH SNYDER, M.S. (Delaware), *Instructor*: Medical-surgical nursing.

GAIL H. WADE, D.N.Sc. (Widener), *Associate 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, D.N.S. (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 nutrition.

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), *Professor*: Computer applications, attitudinal measurements.

ELIZABETH M. LIEUX, Ph.D. (Virginia Tech), *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

MADLINE LAMBRECHT, Ed.D. (Temple), *Director, also Professor of Nursing*.

KAREN M. AVINO, M.S.N., R.N. (Delaware), *Distance Learning Recruiter*.

LORI L. HUBNER, M.S.N., R.N. (Delaware), *BRN Coordinator, Instructor*.

STACY R. WEILE, Ed.M., B.A. (Illinois), *CITA II*

COLLEGE OF HUMAN SERVICES, EDUCATION AND PUBLIC POLICY

Office of the Dean

TIMOTHY K. BARNEKOV, Ph.D. (Syracuse), *Acting Dean, also Professor, Urban Affairs and Public Policy*.

TIMOTHY MILLER, M.A. (Marshall), *Assistant Dean for College Management*.

KIMBERLY A. YACKOSKI, M.Ed. (Delaware), *Assistant Dean for Student Services*.

MARY HELEN CALLAHAN, M.A. (Harvard), *Assistant to the Dean for Advancement and Special Programs*.

PATSY HOWANIEC, *Assistant to the Dean*.

H. KRISTINE RITZ, M.Ed. (Georgia Southern), *Coordinator, Office of Student Support Services*.

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), *Associate 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.
 FRANCES W. MAYHEW, Ph.D. (Maryland), *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), *Associate 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 and Adjunct Appointments

Urban Affairs and Public Policy: MARIA P. ARISTIGUETA, DEBORAH P. AUGER

Education

CHRISTOPHER M. CLARK, Ph.D. (Stanford University), *Director, School of Education*.
 LINDA ALLES, B.S. (Trenton State College), *Instructor*: The College School.
 DOUGLAS ARCHBALD, Ph.D. (Wisconsin-Madison), *Associate Professor*: Educational Leadership.
 GWYNNE ASH, Ph.D. (University of Georgia-Athens), *Assistant Professor*: Literacy education.
 LISA BANICKY, Ph.D. (University of Delaware), *Instructor*.
 GEORGE G. BEAR, Ph.D. (Virginia), *Professor*: School discipline, sociomoral reasoning and behavior, and self-perceptions among children with disabilities.
 DAVID BLACKER, Ph.D. (Illinois), *Assistant Professor*: Philosophy.
 JAN H. BLITS, Ph.D. (New School for Social Research), *Professor; also Professor, Political Science and International Relations*: Philosophy and politics of education.
 NANCY BRICKHOUSE, Ph.D. (Purdue), *Professor*: Science education.
 PAMELA BROWN, Ph.D. (University of Illinois at Urbana-Champaign), *Instructor*.
 ALBERT R. CAVALIER, Ph.D. (Alabama), *Associate Professor*: Behavior management, school discipline, assistive technology, educational technology, and distance education.
 GRACE CHERRIN, M.S. (University of Pennsylvania), *Instructor*: The College School.
 BARBARA CURRY, Ed.D. (Harvard), *Associate Professor*: Educational leadership.
 ZOUBEIDA DAGHER, Ph.D. (University of Iowa), *Associate Professor*: Science education.
 LAURA DOUGHERTY, B.S. (Radford University), *Instructor*: The College School.
 BARBARA DUCH, MS (University of Delaware), *Assistant Professor*.
 LAURA EISENMAN, Ph.D. (Vanderbilt), *Assistant Professor*: Secondary special education and transition from school to adult life for young adults with disabilities.
 SHERRON FAIR, B.A. (University of Rhode Island), *Instructor*: Clinical instruction.
 RALPH P. FERRETTI, Ph.D., (Alabama), *Professor; also Professor, Department of Psychology, College of Arts and Science*: Cognitive psychology, cognitive development and disabilities, problem solving, instruction, and special educational technology.
 DANIELLE FORD, Ph.D. (University of Michigan), *Assistant Professor*: Science education.

SUSAN GIANCOLA, Ph.D. (Pennsylvania), *Assistant Professor*: Policy research, evaluation, and measurement.
 BRAD GLASS, Ph.D. (University of Iowa), *Assistant Professor*: Math education.
 JOSEPH J. GLUTTING, Ph.D. (Pennsylvania), *Professor*: School psychology, psychoeducational assessment, and educational measurement.
 JOANNE M. GOLDEN, Ph.D. (Ohio State), *Professor*: Language arts and coordinator, Ph.D. program in Curriculum and Instruction.
 ROBERTA M. GOLINKOFF, Ph.D. (Cornell), *Professor; also Professor Psychology; also Professor, Linguistics*: Language acquisition, communication development, cognitive development, and psychology of reading.
 LINDA 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.
 VICKI GOETTEL, M.I. (University of Delaware), *Instructor*: Student teaching.
 ROBERT HAMPEL, Ph.D. (Cornell), *Professor*: History of education and contemporary educational policy.
 GABRIELLA HERMON, Ph.D. (Illinois), *Associate Professor; also Assistant Professor, Linguistics*: First and second language acquisition and the principles and parameters framework, syntactic theory, language processing, and text analysis of problems of reading.
 JAMES HIEBERT, Ph.D. (Wisconsin), *Robert J. Barkley Professor*, Mathematics education.
 FRED HOFSTETTER, Ph.D. (Ohio State), *Professor*: Instructional Technology.
 KATHLEEN HOLLOWELL, Ph.D. (Boston University), *Assistant Professor; also, Director, Math and Science Education Resource Center*.
 NORA HYLAND, Ph.D. (University of Illinois at Urbana - Champaign), *Assistant Professor*: Social studies.
 NANCY C. JORDAN, Ph.D. (Harvard), *Associate Professor*: Reading, language and learning disabilities.
 ANN JORNLIN, M.I. (University of Delaware), *Instructor*: Student teaching.
 DAVID W. KAPLAN, Ph.D. (California, Los Angeles), *Professor*: Educational statistics, factor analysis, and structural equation modeling.
 DEBORAH KNIGHT, Ph.D. (University of Georgia), *Assistant Professor*: Special education.
 MICHELE LEWIS, B.S. (University of Delaware), *Instructor*: The College School.
 DEIRDRE LILLY, M.Ed. (Wilmington College), *Instructor*: Student teaching.
 CHERI LIPPSTONE, BA (Cedar Crest College), *Instructor*: Clinical Instruction.
 DENNIS LOFTUS, Ed.D. (Temple University), *Instructor*.
 CHARLES MACARTHUR, Ph.D. (American University), *Associate Professor*: Special education, reading and writing skills for LD students, vocational assessment of children.
 JON MANON, M.Ed. (Lehigh University), *Instructor*.
 EUGENE MATUSOV, Ph.D. (California at Santa Cruz), *Assistant Professor*: Instruction and Cognition.
 CHRIS MAYO, Ph.D. (University of Illinois, Urban-Champaign), *Assistant Professor*: Multicultural education.
 SHUAIB MEACHAM, Ph.D. (University of Illinois - Urbana), *Assistant Professor*: Literacy education.
 KATHLEEN MINKE, Ph.D. (Indiana), *Associate Professor*: Birth-to-three intervention for children with disabilities and at-risk children.
 WILLIAM B. MOODY, Ed.D. (Maryland), *Professor; also Professor, Department of Mathematical Sciences, College of Arts and Science*: Mathematics education.
 ANNE MORRIS, Ph.D. (Ohio State University), *Associate Professor*: Mathematics education.
 FRANK B. MURRAY, Ph.D. (Johns Hopkins), *H. Rodney Sharp Professor of Educational Psychology; also Professor, Department of Psychology, College of Arts and Science*: Cognitive development, developmental theory, reading and mathematics.

RATNA NANDAKUMAR, Ph.D. (Illinois), *Professor*: Educational statistics and measurements.

AUDREY NOBLE, Ph.D. (Arizona State University), *Assistant Professor*; also, *Director, Research and Development Resource Center*.

LAURIE PALMER, MI (University of Delaware), *Instructor: Coordinator – Milford Professional Development School*.

JUDITH PATTON, MI (University of Delaware), *Instructor*: Student teaching.

ELIZABETH PEMBERTON, Ph.D. (Pennsylvania State), *Assistant Professor*: Psychology; also *Advisor, Undergraduate Advisement Office*.

HEATHER PLEASANTS, Ph.D. (Michigan State), *Assistant Professor*: Educational psychology.

KRISTIN RAGAN, M.Ed. (Wilmington College), *Instructor*: Student teaching.

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.

JEANEL STARLING, Ed.D. (University of Delaware), *Instructor*: also, *Director, Milford Professional Development School*.

JOHN ST. JULIEN, Ph.D. (Louisiana State), *Assistant Professor*: Social studies and curriculum theory.

ROBERT J. TAGGART, Ph.D. (Michigan), *Associate Professor*: History of education.

KATHY THOMAS, Ed.D. (University of Delaware), *Instructor*: also, *Coordinator of Masters in Educational Leadership*.

PRIMO TOCCAFONDI, Ed.D. (Nova University), *Instructor*: also, *Director, Southern Delaware Program*.

RICHARD L. VENEZKY, Ph.D. (Stanford), *Unidel Professor, Education*; also *Professor, Computer and Information Sciences*: Reading processes, assessment, history of literacy, and computers in education.

HARLEEN VICKERS, Ph.D. (Delaware), *Assistant Professor*: Family-school issues and intervention.

CAROL VUKELICH, Ph.D. (Southern Illinois), *Director, Delaware Center for Teacher Education*: also *Professor, Individual and Family Studies*: 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.

JAMES A. WHITSON, Ph.D. (University of Rochester), *Associate Professor*: Social studies.

ELIZABETH WIER, Ph.D. (University of Delaware), *Assistant Professor*: Science education.

STEPHANIE WOLBERT, MI (University of Delaware), *Instructor*: Student teaching.

CAROL WONG, Ph.D. (University of Michigan), *Assistant Professor*: Education and psychology.

English Language Institute

SCOTT G. STEVENS, Ed.D. (Delaware), *Director*.

KATHERINE SCHNEIDER, M.A. (New York), *Associate Director*.

JOSEPH MATTERER, M.A. (Ohio State), *Assistant Director*.

ROBERT ARBAN, B.A. (West Virginia), *Assistant to the Director*.

LINDA BIGLER, *Tutoring Coordinator*.

SUSAN COAKLEY, M.Ed. (Notre Dame College, NH), *Instructor*.

LESLIE CRISTON, M.A. (Arizona), *Instructor*.

KELLY GALVIN, B.A. (Delaware), *Admissions Counselor*.

JO GIELOW, M.A. (Southern Illinois), *Assistant Professor*.

BARBARA GILLETTE, Ph.D. (Delaware), *Instructor*.

LISA GRIMSLEY, M.A. (Columbia International), *Instructor*.

RUTH JACKSON, M.A. (Delaware), *Assistant Professor*.

JANICE LEFEBVRE, M.A. (Delaware), *Instructor*.

JANET LOUISE, M.A. (Nebraska), *Instructor*.

RALPH MASON, M.A. (Oklahoma State), *Instructor*.

MARY McCLOSKEY, M.A. (Kansas), *Instructor*.

BARBARA MORRIS, M.A. (Addis Ababa), *Instructor*.

DAVID QUAYLE, B.S. (Delaware), *Orientation Coordinator*.

LOWELL RIETHMULLER, M.A. (Delaware), *Instructor*.

JAMES SLATER, M.A. (American in Cairo), *Instructor*.

KATHLEEN VODVARKA, M.A. (Hunter), *Instructor*.

GRANT WOLF, M.A. (Michigan State), *Instructor*.

CHRISTOPHER WOLFE, J.D. (Widener Law), *Legal Studies Coordinator*.

MARY BETH WORRILOW, M.A. (Delaware), *Instructor*.

Hotel, Restaurant, and Institutional Management

FREDERICK J. DEMICCO, Ph.D. (Virginia Tech), *Professor and Aramark Chair*: International hospitality management, gerontology.

CIHAN COBANOGLU, Ph.D. (Oklahoma State), *CHTP, Assistant Professor of Hospitality Information Technology*.

RONALD P. COLE, M.S. (Rochester Institute of Technology), *Associate Policy Scientist and Assistant Professor*: Food and beverage management, distance learning.

GEORGE R. CONRADE, M.B.A. (Michigan State), *Assistant Professor*: Hospitality information technology and e-commerce, managerial accounting, and marketing.

PAMELA R. CUMMINGS, Ph.D. (Oklahoma State), *Associate Professor*: Hotel management, leadership.

JOSEPH DiGREGORIO, C.E.C. (Culinary Inst.), *Executive Chef and Lecturer*: Quantity foods and commercial foods.

DEBORAH ELLINGSWORTH, B.A. (Delaware), *Executive Sous Chef, Pastry Chef and Chef 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), *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, AIA, B.Arch. (Drexel), *Associate Professor*: Hotel and restaurant architecture, historic preservation.

PAUL E. WISE, M.B.A. (Michigan State), *Professor and Chair Emeritus*: Curriculum development in food and beverage management.

PATRICIA WOODWARD, B.A. (Mercyhurst College), *Instructor and Dining Room Manager*.

Individual and Family Studies

MICHAEL FERRARI, Ph.D. (Rutgers), *Associate Professor and Chair*; also *Associate Professor, Psychology*: Families and neurodevelopmental disorders, brain injury, dementia research and rehabilitation.

APARNA BAGDI, Ph.D. (Syracuse), *Assistant Professor*: Cultural diversity and early childhood.

JOHN B. BISHOP, Ph.D. (Ohio), *Associate Professor*, also *Associate Vice-President for Counseling and Student Development*: College counseling, student affairs practice in higher education, management of university counseling centers.

MARTHA J. BUELL, Ph.D. (North Carolina), *Associate Professor*: Early childhood classroom quality, early childhood teacher professional development; and emergent literacy.

CLAYTONA J. DeCAPUA, M.Ed. (Penn State), *Assistant Professor*: Early childhood curriculum, early childhood teacher professional development.

PENNY L. DEINER, Ph.D. (Penn State), *Professor*: Family resilience and violence, children with special needs and their families, overt and relational violence.

NANCY J. EDWARDS, M.Ed. (Temple), *Instructor, Clinical Faculty*: Math and science education.

ALICE P. EYMAN, M.A. (Columbia), *Assistant Professor, also Director, University of Delaware Laboratory Preschool, and Coordinator, Student Teaching*: Professional development, laboratory schools.

RUTH E. FLEURY, Ph.D. (Michigan State), *Assistant Professor*: Community responses to violence against women.

NORMA GAINES-HANKS, Ed.D. (Delaware), *Assistant Professor, Clinical Faculty*: Working with diverse populations, parental satisfaction with schools, mentorship, cultural diversity.

MICHAEL GAMEL-McCORMICK, Ph.D. (Virginia Commonwealth), *Associate Professor*: Early childhood development and education, intervention with special needs populations, program evaluation, qualitative analyses.

JUDITH A. GREENE, Ed.D. (Temple), *Assistant Professor, Clinical Faculty*: Counseling culturally diverse families, inclusion and conflict management.

TAMARA K. HAREVEN, Ph.D. (Ohio State), *Unidel Professor of Family Studies, also Professor, History*: Comparative family studies, family history, aging and the life course.

DENE G. KLINZING, Ph.D. (Penn State), *Professor*: Hospitalized children, child development, parenting and medical communication.

MARY LOU LIPRIE, Ph.D. (Ohio State), *Associate Professor*: Adolescent development, research methodology, family and consumer sciences education, adolescent decision-making, nutrition education.

ROBIN J. PALKOVITZ, Ph.D. (Rutgers), *Professor*: Father-child relations across the life span, parental development, life-span development.

DONALD L. PETERS, Ph.D. (Stanford), *Amy Rextrew Professor, also Professor, Urban Affairs and Public Policy*: Early childhood development and services, staff development, service program planning and evaluation.

BARBARA H. SETTLES, Ph.D. (Ohio State), *Professor*: Cost and quality issues in family care, family theory, family life education, family futures.

DANIEL D. SHADE, Ph.D. (North Carolina, Greensboro), *Associate Professor*: Children and technology, computers in early childhood education, technology and families, research methodology, human development through speculative fiction and media, child development.

STUART J. SHARKEY, M.Ed. (St. Lawrence), *Assistant Professor*: Higher education, legal, administration and management issues.

BAHIRA SHERIF, Ph.D. (University of Pennsylvania), *Associate Professor*: Culturally diverse families, gender issues, intergenerational relationships.

DONALD G. UNGER, Ph.D. (South Carolina), *Professor*: Social support and family coping, child and family intervention, teenage pregnancy, prevention and empowerment with families.

JOHN J. VACCA, Ph.D. (Penn State), *Assistant Professor*: Infant development; young children with special needs; autism, neurodevelopmental disabilities; school psychology.

JULIE MAPES WILGEN, Ph.D. (Texas Tech), *Assistant Professor*: Human sexuality, lifespan development, family relationships, learning in community contexts.

Joint, Secondary and Adjunct Appointments

Center for Counseling and Student Development: CHARLES L. BEALE, TIMOTHY F. BROOKS, MERRIS A. HOLLINGSWORTH, JONATHAN D. LEWIS, SHARON L. MITCHELL, MARILYN S. PRIME, RICHARD S. SHARF, VIVIAN A. YAMADA.

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), *Associate 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 Acting Dean, College of Human Services, Education and Public Policy*: Community development, urban neighborhoods, business and urban policy, local 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), *Associate 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 and management, applied research and public policy analysis, qualitative methods, social and economic opportunity.

KATHRYN G. DENHARDT, Ph.D. (Kansas), *Associate Professor*: Collaborative decision making and conflict resolution, human resources management, ethics in public service.

BERNARD L. DWORSKY, M.A. (Delaware), *Assistant Professor and Project Director, Water Resources Agency, Institute for Public Administration*: Water resources management, planning.

JAMES P. FLYNN, Ed.D. (Delaware), *Assistant Professor, also Internship Coordinator*: Personnel administration, quality improvement initiatives, educational governance, legislative management, professional development, human resources management.

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 Director, M.P.A. Program and Assistant Director, Institute for Public Administration*: Public economics, health policy, employee compensation and benefits, tourism development and research, analytical methods.

PAMELA LELAND, Ph.D. (Delaware), *Assistant Professor and Interim Director, Center for Community Development and Family Policy*: Management and governance of nonprofit organizations, tax exempt status of charitable nonprofits, outcomes based evaluation, non-profit leadership.

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*: Financial management, non-profit management, international comparative public administration.

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 Acting Provost, also Professor, Political Science and International Relations*: Public policy and public management.

REBECCA SHEPPARD, M.A. (Delaware), *Instructor*: Historic preservation planning, history of rural landscapes and the built environment, landscape preservation.

PAUL L. SOLANO, Ph.D. (Maryland), *Associate Professor, also Associate Professor, Political Science and International Relations*: Financial administration and public finance, political economy, health economics.

RICHARD T. SYLVES, Ph.D., *Professor, also Director, Environmental and Energy Policy Program and Professor, Department of Political Science*: Public administration, energy and environmental policy, public policy analysis, disaster policy.

- DOUGLAS F. TUTTLE, M.P.A. (Delaware), *Instructor*: State and local government personnel development, strategic planning, emergency service planning and public service quality assessment.
- YOUNG-DOO WANG, Ph.D. (Delaware), *Associate Professor*: Energy and water conservation policy, economic analysis of alternative energy options, econometric applications.
- LELAND WARE, J.D. (Boston College), *Louis J. Redding Chair for the Study of Law and Public Policy*: Employment discrimination law, civil rights law, civil procedure; also *Professor, Legal Studies*.
- ROBERT WARREN, Ph.D. (UCLA), *Professor, also Professor, Political Science and International Relations*: Urban and regional government, telecommunications policy, urban planning and development, cultural theory.
- MARGARET S. WILDER, Ph.D. (Michigan), *Professor, also Director, Urban Affairs and Public Policy Program*: 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), *Associate Professor*: Criminal justice policy, media and public policy, international comparative governance.

Joint and Adjunct Appointments

- 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
- Health and Nursing Sciences*: BETHANY HALL-LONG
- Hotel, Restaurant and Institutional Management*: PAUL SESTAK
- Individual and Family Studies*: TAMARA HAREVEN, DONALD L. PETERS, DONALD UNGER
- Marine Studies*: BILIANA CICIN-SAIN, WILLETT KEMPTON
- Museum Studies*: CHANDRA REEDY
- Philosophy*: PAUL T. DURBIN
- Political Science and International Relations*: MARK W. HUDDLESTON, JANET B. JOHNSON, MARIAN PALLEY, HENRY T. REYNOLDS, RICHARD T. SYLVES
- Adjunct Faculty*: JOHN ELSE, LINDA WOLF, BEVERLY YANICH

COLLEGE OF MARINE STUDIES

- CAROLYN A. THOROUGHGOOD, Ph.D. (Maryland), *Associate Professor and Dean, also Director, Delaware Sea Grant College Program*
- 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 recreational fisheries management.
- MOHSEN BADIEY, Ph.D. (Miami), *Professor, also Associate Professor, Civil and Environmental Engineering*: Analytical and numerical modeling of geoaoustics and geophysics; seabed, laboratory and in-situ measurements related to seismo-acoustics problems.
- KATHARINA BILLUPS, Ph.D. (California, Santa Cruz), *Assistant Professor*: Paleooceanography, geochemistry, paleoclimate.
- 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.
- DAVID S. CHAPMAN, P.E. (Drexel), *Associate Research Scientist*: Marine transportation, environment, safety and ports.
- THOMAS M. CHURCH, Ph.D. (California, San Diego), *Professor, also Professor, Chemistry and Biochemistry*: Atmospheric deposition, estuarine geochemistry and marine chemistry of trace elements.
- BILIANA CICIN-SAIN, Ph.D. (California, Los Angeles), *Professor and Director, 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.
- JAMES J. CORBETT, Ph.D. (Carnegie Mellon), *Assistant Professor*: Marine transportation, energy and environment, intermodal freight transport, global climate change, air emissions, pollution.
- MATTHEW T. COTTRELL, Ph.D. (University of Texas at Austin), *Associate Scientist*: Microbial ecology.
- 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.
- JEREMY FIRESTONE, Ph.D. (North Carolina), J.D. (Michigan), *Assistant Professor*: Ocean and Coastal Law and Management, conflict resolution, governance, federal/state relations, marine pollution.
- PATRICK M. GAFFNEY, Ph.D. (SUNY, Stony Brook), *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.
- I. PABLO HUQ, Ph.D. (Cambridge), *Associate Professor, also Associate Professor, Mechanical Engineering*: Turbulence in the environment; stratified flow phenomena; experimental fluid mechanics, physical oceanography.
- NAJID HUSSAIN, Ph.D. (Physical Laboratory, Ahmedabad, India), *Scientist*: Radionuclides in the oceans and environment, carbon cycle, geothermal and hydrothermal circulation, groundwater flow, geochronology.
- DAVID A. HUTCHINS, Ph.D. (California, Santa Cruz), *Associate 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*: Marine microbial ecology; oceanography, molecular ecology.
- A.D. KIRWAN, JR., Ph.D. (Texas A&M), *Professor, also Mary A.S. Lighthouse Chair, 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. (Braunschweig), *Professor, also Director, Center for Remote Sensing, also Professor, Electrical and Computer Engineering*: Remote sensing of marine and coastal resources; environmental monitoring; optical physics.
- 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), *M.P. & M.H. Harrington Professor, also Professor, Chemistry and Biochemistry and Professor, Civil and Environmental Engineering*: Marine chemistry; element redox cycles; biology as a function of chemical speciation; chemical sensor development.

GERARD J. MANGONE, Ph.D. (Harvard), *University Research Professor*: Coastal, maritime, and international law; shipping and port management; *also Professor, Legal Studies*.

ADAM G. MARSH, Ph.D. (Maryland), *Assistant Professor*: Molecular biochemistry and bioinformatics in extreme environments.

DOUGLAS C. MILLER, Ph.D. (Washington), *Associate Professor*: Deposit-feeding strategies; trophic interactions among organisms; organism-flow-sediment interactions.

ANDREAS K. MUENCHEW, Ph.D. (Delaware), *Associate Professor*: Coastal physical oceanography, arctic oceanography.

GEORGE R. PARSONS, Ph.D. (Wisconsin), *Professor; also 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 microbial biogeochemistry, analytical chemistry of seawater.

CHRISTOPHER K. SOMMERFIELD, Ph.D. (SUNY, Stony Brook), *Assistant Professor*: Coastal geological oceanography; marine and estuarine sedimentary processes.

TIMOTHY E. TARGETT, Ph.D. (Maine), *Professor*: Chemical/biological interactions in the marine environment, antifouling mechanisms in marine organisms; chemical ecology.

THEODORE D. TOMASI, Ph.D. (Michigan), *Research Scientist*: Natural resource and environmental economics, valuing environmental goods, growth and sustainability, nonpoint pollution.

MICHAEL TONER, Ph.D. (Old Dominion), *Associate Research Scientist*: Lagrangian analysis of coherent structures and oceanic transport.

WILLIAM J. ULLMAN, Ph.D. (Chicago), *Professor; also Professor, Geology*: Geochemical cycles; rock/water interactions; coastal, estuarine, and nearshore processes.

FABRICE VERNON, Ph.D. (Scripps Institution of Oceanography), *Assistant Professor*: Air-sea interaction, wind-wave generation, surface small scale processes.

MARK E. WARNER, Ph.D. (University of Georgia), *Assistant Professor*: Physiological ecology of algal-invertebrate symbioses and marine algae.

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, 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.

Geography: TRACY L. DELIBERTY, CORT J. WILLMOTT.

Geology: JOHN A. MADSEN, RONALD E. MARTIN, JOHN F. WEHMILLER.

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

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, RICHARD B. COFFIN, MICHAEL D. COLLINS, JAMES CREASE, ROBERT G. DEAN, MARILYN L. FOGEL, PAUL A. GRECAY, THOMAS E. HELSER, NORDEN E. HUANG, DAVID E. KRANTZ, KAMLESH LULLA, EVELYN M. MAURMEYER, WILLIAM H. MEREDITH, DONALD B. NUZZIO, JAMES C. PIERCE, PAMELA T. PLOTKIN, ANDREW C. POJE, KENT S. PRICE, ANTHONY P. PRATT, MANMOHAN SARIN, ALAIN J. VERON.

FACULTY EMERITI

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

MARGARET P. ALLEN, M.F.A. (Washington), *Associate Professor Emerita of Art*.

VAL E. ARNSDORF, Ph.D. (Minnesota), *Professor Emeritus of Education*.

MAURICE V. BARNHILL, Ph.D. (Stanford), *Professor Emeritus of Physics and Astronomy*.

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*.

YAROSLAV BILINSKY, Ph.D. (Princeton), *Professor Emeritus of Political Science and International Relations*.

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*.

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*.

THOMAS W. BROCKENBROUGH, S.M. (M.I.T.), *Professor Emeritus of Civil and Environmental Engineering*.

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*.

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*.
- 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*.
- JOHN S. CRAWFORD, Ph.D. (Harvard), *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*.
- WILLIAM B. DANIELS, Ph.D. (Case), *Professor Emeritus of Physics and Astronomy*.
- JOHN M. DAWSON, Ph.D. (Chicago), *Professor Emeritus, Library*.
- ROBERT A. DAY, M.S. (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*.
- FRANK B. DILLEY, Ph.D. (Columbia), *Professor Emeritus of Philosophy*.
- DON DENNIS, Ph.D. (Brandeis), *Professor Emeritus of Chemistry and Biochemistry*.
- ALEXANDER R. DOBERENZ, Ph.D. (Arizona), *Professor Emeritus of Nutrition and Dietetics*.
- IVO DOMINGUEZ, Ph.D. (Florida State), *Professor Emeritus of Foreign Languages and Literatures*.
- 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*.
- JAYNE FERNISLER, D.S.N. (Alabama), *Professor Emerita of Nursing*.
- W. BRUCE FINNIE, Ph.D. (Ohio State), *Professor Emeritus of English*.
- 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*.
- ARTHUR HALPRIN, Ph.D. (Pennsylvania), *Professor Emeritus of Physics and Astronomy*.
- ROBERT HANNAH, M.E. (Delaware), *Professor Emeritus of Health and Exercise 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*.
- ROBERT HOGENSON, Ph.D. (Michigan State), *Professor Emeritus of Music*.
- 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*.
- BARBARA J. KELLY, Ph.D. (Delaware), *Professor Emerita of Health and Exercise Sciences; also Professor Emerita of Women's Studies*.
- DOROTHY A. KENNEDY, M.A. (Columbia), *Associate Professor Emerita of Nursing*.
- ROBERT W. KEOWN, Ph.D. (Louisville), *Professor Emeritus of Animal and Food Sciences*.
- NANCY KING, Ph.D. (Union Institute), *Professor Emerita of Speech and Theatre*.
- WALTER KIRCHNER, Ph.D. (California, Los Angeles), *H. Rodney Sharp Professor Emeritus of History*.
- ROBERT KRAFT, Ph.D. (Syracuse), *Professor Emeritus of Health and Exercise Science*.
- 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*.
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