



# UNIVERSITY PERSONNEL

UNIVERSITY OF DELAWARE  
2004-2005



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2004-2005



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(As of February 2004)

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LYNWOOD L. DAVENPORT, Master of the State Grange  
DAVID P. ROSELLE, President of the University  
JOSEPH A. PIKA, President of the State Board of Education

## ELECTED AND APPOINTED MEMBERS

LAUREN B. BROHAWN  
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IRWIN G. BURTON, III  
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ROBERT F. RIDER

## THE UNIVERSITY STAFF

### OFFICERS OF THE UNIVERSITY ADMINISTRATION

DAVID P. ROSELLE, Ph.D. (Duke), President; also Professor of Mathematics.  
DANIEL RICH, Ph.D. (MIT), Provost; also Professor, Urban Affairs and Public Policy.  
DAVID E. HOLLOWELL, M.B.A. (Boston), Executive Vice President and University Treasurer.  
MAXINE COLM, Ed.D. (Delaware), Vice President for Administration.  
ROBERT R. DAVIS, M.A. (Bowling Green), Vice President for Development and Alumni Relations.  
SUSAN J. FOSTER, M.Ed. (Temple), Vice President for Information Technologies.  
PIERRE D. HAYWARD, B.A. (Trinity), Vice President and University Secretary.

# THE FACULTY

## COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

### OFFICE OF THE DEAN

ROBIN MORGAN, Ph.D. (Johns Hopkins), Dean, and Director of the Agricultural Experiment Station; also Professor, Animal and Food Sciences.

JANICE SEITZ, Ph.D. (Illinois), Director, Cooperative Extension and Associate Dean for Extension and Outreach.

JAMES THOMAS SIMS, Ph.D. (Michigan State), Associate Dean for Academic Programs and Research; also T.A. Baker Professor, Plant and Soil Sciences.

KAREN ROTH ANUNAS, 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), Director, Agricultural and Technology Education; also Instructor, Food and Resource Economics.

PATRICIA S. BARBER, Ed.D. (Florida), Associate Professor, Food and Resource Economics.

### Adjunct Appointments

Adjunct Faculty: ARBA HENRY.

### ANIMAL AND FOOD SCIENCES

LIMIN KUNG, Ph.D. (Michigan State), Professor and Interim Chair: Ruminant nutrition and 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), Researcher Associate II.

CYNTHIA M. BOETTGER, B.S. (Delaware), Research Associate II.

JOAN BURNSIDE, Ph.D. (Dartmouth), Professor; also Professor, Biological Sciences.

WILFRID G. CARRE, Ph.D. (Ensa Rennes), Limited Term Researcher.

HAIQIANG CHEN, Ph.D. (Penn State), Assistant Professor: Food Processing.

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.

DANIELLE M. DOWNS, B.S. (Delaware), Limited Term Researcher.

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.

DONGSHENG GUAN, Ph.D. (Washington State Univ.), Limited Term Researcher.

DALLAS G. HOOVER, Ph.D. (Minnesota), Professor: Food microbiology, biotechnology, fermentations, food safety.

GRACE K. ISAACS, B.S. (Delaware), Research Associate II.

CLAIRE C. JACKLIN, Research Associate I.

ROLF D. JOERGER, Ph.D. (North Carolina State), Associate Professor: Microbial genetics and physiology.

BREWSTER KINGHAM, M.S. (Delaware), Research Associate III.

KALMIA E. KNIEL-TOLBERT, Ph.D. (Virginia Polytechnic University and State University), Assistant Professor: Food Virology.

BRIAN S. LADMAN, M.S. (Delaware), Research Associate III.

GEORGE W. MALONE, M.S. (Massachusetts), Extension Poultry Specialist.

DAVID L. MARSHALL, V.M.D. (Pennsylvania), Assistant Professor, Equine studies; equine extension veterinarian.

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.

MICHAEL E. PERSIA, Ph.D. (Illinois), Limited Term Researcher.

CONRAD R. POPE, D.V.M. (Tuskegee), Professor: Veterinary pathology.

JOHN K. ROSENBERGER, Ph.D. (Wisconsin), Alumni Distinguished Professor: Microbiology.

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), Associate 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.  
MARCELLA M. TROEBER, B.S., (Delaware), Research Associate II.

XIAOFEI WANG, Ph.D., (Hong Kong), Research Associate III.  
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**

WILLIAM F. RITTER, Ph.D. (Iowa State), Professor and Chair: Soil  
and water engineering, waste management.  
JAMES R. ADKINS, B.S. (Maryland), Extension Associate III.  
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, Ph.D. (Delaware), Scientist.  
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 Safety Specialist.  
LUTHER J. KEMBLE, B.S. (Delaware), Research Associate III.  
PALANIAPPA KRISHNAN, Ph.D. (Illinois), Associate Professor  
and Director, Operations Research Program: Chemical spray  
application, machinery management.  
KENNETH M. LOMAX, Ph.D. (Maryland), Associate Professor:  
Ventilation systems, biological engineering.  
IAN McCANN, Ph.D. (Texas A&M), Assistant Professor: Irrigation  
systems, water management.  
JAMES N. SCARBOROUGH, Ph.D. (Illinois), Associate Professor:  
Structures.  
GARRETT VAN WICKLEN, Ph.D. (New York) Associate  
Professor: Poultry housing.

#### **Adjunct Appointments**

Adjunct Faculty: LENORE M. VASILAS

#### **ENTOMOLOGY AND WILDLIFE ECOLOGY**

DOUGLAS W. TALLAMY, Ph.D. (Maryland), Professor and Chair:  
Insect behavioral ecology, effect of alien plants on food webs,  
plant-insect interactions.  
CHARLES R. BARTLETT, Ph.D. (N.C. State), Assistant Professor:  
Insect systematics; also curator of insect reference collection.  
Taxonomy and biodiversity of lant hoppers (Fulgoroidea).  
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.  
JUDITH A. HOUGH-GOLDSTEIN, Ph.D. (Cornell), Professor:  
Insect pest management, insect behavior and ecology, biological  
control of weeds.  
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.

#### **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, JEAN  
L. WOODS.

#### **FOOD AND RESOURCE ECONOMICS**

THOMAS W. ILVENTO, Ph.D. (Penn State), Professor and Chair:  
Rural sociology and community economic development.  
TITUS O. AWOKUSE, Ph.D. (Texas A&M), Assistant Professor:  
International trade and quantitative analysis.  
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.  
JOSHUA M. DUKE, Ph.D. (Wisconsin), Associate Professor:  
Environmental law, land use and resource economics; also  
Associate 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), Assistant Professor: 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. TOENSMAYER, Ph.D. (Maryland), Professor: Food  
marketing management and sales, futures and options markets.  
LAURIE G. WOLINSKI, B.S. (Delaware), Farm Management  
Associate.  
**Adjunct Appointments**  
Adjunct Faculty: CHARLES McCALLUM, PAUL SCHIFFELBEIN,  
BRUCE STANLEY.

# 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 agriculture, modeling environmental parameters, 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: Water Resources Engineering.  
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 AULL HYDE, Ph.D. (Clemson), Associate Professor, Food and Resource Economics: Applied linear programming, inventory models, decision analysis.  
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.  
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.

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 du Pont Chair and Department Chairperson; also Professor, Civil and Environmental Engineering, Professor, Chemistry and Biochemistry, and Professor, Marine Studies: Soil and environmental chemistry.  
MONICA ACCERBI, M.A., Laboratory Coordinator: Plant biology.  
SUSAN S. BARTON, M.S. (North Carolina State), Instructor, Extension Specialist IV.  
GREGORY BINFORD, Ph.D. (Iowa State), Assistant Professor: Soil and water quality.  
VALANN BUDISCHAK, B.A., Extension Associate IV: Ornamental horticulture.  
ROBERT B. CARROLL, Ph.D. (Penn State), Professor: Plant pathology.  
THOMAS A. EVANS, Ph.D. (Michigan State), Associate Professor: Vegetable pathology.  
BARBARA FARNWORTH, B.S. (Simon Fraser University), Research Associate II: Plant biology.  
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 Program.  
CAROLINE M. GOLT, B.S. (Delaware), Research Associate III.  
PAMELA GREEN, Ph.D. (SUNY), Crawford H. Greenewalt Chair; also Professor, Chemistry and Biochemistry and Marine Studies: 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.  
JANINE HAYNES, M.S. (Maine), Research Associate I: Plant biology.  
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.  
JUNG-YOUN LEE, Ph.D. (Florida), Assistant Professor: Plant biology.  
CLAUDIA MESA, M.S. (Delaware), Research Associate: Soil microbiology.  
BLAKE C. MEYERS, Ph.D. (California, Davis), Assistant 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.  
BARBARA SCOTT, B.S. (Delaware), Research Associate: Weed science.

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

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

J. THOMAS SIMS, Ph.D. (Michigan State), T.A. Baker Professor: Soil chemistry and management; also Associate Dean for Academic Programs and Research, College of Agriculture and Natural Resources.

FREDERIC SOURET, Ph.D. (Worcester Poly Institute), Limited Term Researcher: Plant biology.

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), Associate Scientist, Agronomy.

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, Plant Breeding.

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

BYUNG-CHUN YOO, Ph.D. (Florida), DBI Fellow: Plant biology.

**Joint and Adjunct Appointments**

Marine Studies: JOHN S. BOYER, GEORGE LUTHER, III.

Adjunct Faculty: MILO AUKERMAN, ROBIN C. BUEL, THEODORE H. CARSKI, SEAN COUGHLAN, MICHAEL J. DUFFY, KATHERINE EVERTS, RICHARD HOWARD, JAY JULIS, ANTHONY KINNEY, DAN KUCERA, J. ANTONI RAFALSKI, HAJIME SAKAI, CASEY SCLAR, CHRIS TOWN, QUINN ZHO.

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## COLLEGE OF ARTS AND SCIENCES

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### 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.

ANN L. ARDIS, Ph.D. (University of Virginia), Associate Dean; also Professor: English.

GRETCHEN BAUER, Ph.D. (Wisconsin), Associate Dean; also Associate Professor: Political Science and International Relations.

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

HELEN EASTERLING WILLIAMS, Ed.D. (Delaware), Assistant Dean.

MARY CLEVELAND, Administrative Coordinator.

JULIE DEMGEN, B.A. (University of Wisconsin-Superior), Assistant to the Dean.

RICHARD DUGGAN, B.A. (Elizabethtown College) IT Manager.

KEVIN MCCULLEN, B.A. (St. Joseph's University) Director of Development.

PAUL A. PUSECKER, III, M.S. (Penn State), Executive Officer.

DEE SMITH, B.A. (University of Delaware) Budget Manager.

### 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.

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

### FINE ARTS AND VISUAL COMMUNICATIONS

VIRGINIA BRADLEY M.F.A. (South Florida). Professor and Chair: Painting, Mixed Media.

RENÉ MARQUEZ, M.F.A. (University of Pennsylvania), Associate Chair; also, Associate Professor: Drawing.

MARTHA L. CAROTHERS, M.F.A. (Penn State), Professor: Visual communications; also, Director, Center for Teaching Effectiveness.

BILL DEERING, Assistant Professor: Visual communications.

HENDRIK-JAN FRANCKE, B.A. (University of Delaware), Assistant Professor: Visual communications.

VERA E. KAMINSKI, M.F.A. (Maryland Institute College of Art), Associate Professor: 3D Design.

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

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), Associate 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.

PETER T. WILLIAMS, M.F.A. (Maryland Institute College of Art),

### Joint and Adjunct Appointments

Black American Studies: AMALIA AMAKI

Museum Studies: HILTON BROWN.

### ART CONSERVATION

DEBRA HESS NORRIS, M.S. (Delaware), Henry Francis du Pont Chair in Fine Arts; 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,

Geography: THOMAS MEIERDING.

Geology: PETER LEAVENS.

Mechanical Engineering: IAN HALL.

Adjunct Faculty: MARK ANDERSON, MARK BOCKRATH, BETTY FISKE, JOY GARDINER, KATHLEEN KIEFER, EBENEZER KOTEL, JOHN KRILL, GREGORY LANDREY, MARGARET LITTLE, JENNIFER MASS, CATHERINE MATSEN, MICHAEL PODMANICZKY, BRUNO POULIOT, LOIS PRICE, JIM SCHNECK, ROBERTA TARBELL.

## ART HISTORY

MICHAEL LEJA, Ph.D. (Harvard), Sewell C. Biggs Chair in American Art; also Professor: American art to 1900.  
 NINA ATHANASSOGLOU-KALLMYER, Ph.D. (Princeton), Acting Chair; also Professor: Eighteenth and nineteenth century European art.  
 WENDY BELLION, Ph.D. (Northwestern), Assistant Professor: Eighteenth and early nineteenth century American art.  
 H. PERRY CHAPMAN, Ph.D. (Princeton), Professor: Baroque art, especially seventeenth-century Dutch painting.  
 MONICA DOMINGUEZ TORRES, Ph.D. (Toronto), Assistant Professor: Renaissance art and architecture in the Hispanic world.  
 ANN E. GIBSON, Ph.D. (University of Delaware), Professor: Contemporary and American art, African-American art.  
 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.  
 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 PELLECCCHIA, Ph.D. (Harvard), Associate Professor; also Associate Professor, Women's Studies: History of architecture, Renaissance art.  
 LAUREN H. PETERSEN, Ph.D. (Texas), Assistant Professor: Ancient art.  
 DAVID M. STONE, Ph.D. (Harvard), Associate Professor: Italian Baroque art.  
 MARGARET WERTH, Ph.D. (Harvard), Associate Professor: Nineteenth and twentieth century European art.  
 RICHARD WITTMAN, Ph.D., (Columbia), Assistant Professor: History of architecture.  
**Joint and Adjunct Appointments**  
 Black American Studies: AMALIA AMAKI  
 Museum Studies: HILTON BROWN, CHANDRA REEDY, BRYANT F. TOLLES, JR.  
 University Museums and eighteenth and nineteenth century European painting and painting in Spain: JANIS TOMLINSON.

## 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: Heart disease.  
 DAVID W. SMITH, Ph.D. (Wisconsin), Associate Professor and Undergraduate Programs Director: Microbial ecology.  
 NORMAN J. KARIN, Ph.D. (Tennessee), Associate Professor and Graduate Programs Director: Cell biology and cell physiology.  
 DEBORAH E. ALLEN, Ph.D. (Delaware), Associate Professor: 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: Bone and cartilage matrix; cancer metastasis.  
 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.  
 RONALD H. KARLSON, Ph.D. (Duke), Professor: Population and community ecology.  
 ROBERT B. KETCHAM, Ph.D. (Delaware), Laboratory Coordinator.  
 ERIC B. KMEIC, 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), Associate Professor: Cell adhesion and signaling.  
 JANE NOBLE-HARVEY, Ph.D. (California, San Francisco), Associate Professor: Infectious diseases, human cancer, and cell biology.  
 ERICA SELVA, Ph.D. (Univ. Massachusetts Med. Sch.), Assistant Professor: Genetic and molecular control of signal transduction during Drosophila development.  
 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.  
 GREGORY A. STEPHENS, Ph.D. (Kansas), Associate Professor: Cardiovascular regulation, renin-angiotensin-aldosterone system.  
 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, CARL SCHMIDT.  
 Chemistry & Biochemistry: HAROLD WHITE, III.  
 Entomology and Applied Ecology: DOUGLAS W. TALLAMY.  
 Marine Studies: NANCY TARGETT.  
 Math & Science Edu. Res. Ctr.: RICHARD DONHAM.  
 Medical Technology: MARY ANN MCLANE, MARY BETH MIELE.  
 Plant and Soil Sciences: ALLEN SHAPIRO, JANINE SHERRIER.  
 University Parallel Program: LAWRENCE A. CURTIS, JOHN BARTLEY, SHARON S. TUCKER.



**BLACK AMERICAN STUDIES**

- HOWARD B. JOHNSON, Ph.D. (Oxford), Alumni Distinguished Professor of History and Black American Studies; also Acting Director.
- AMALIA AMAKI, Ph.D. (Emory), Curator of the Paul R. Jones Collection.
- JAMES E. NEWTON, Ed.D. (Illinois), Professor and Senior Fellow, Center for Community Development and Family Policy.

**CHEMISTRY AND BIOCHEMISTRY**

- CHARLES G. RIORDAN, Ph.D. (Texas A&M), Professor and Chair: Inorganic chemistry.
- JOHN L. BURMEISTER, Ph.D. (Northwestern), Alumni Distinguished Professor and Associate Chair for Undergraduate Studies: Inorganic chemistry.
- EUGENE G. MUELLER, Ph.D. (Harvard), 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), Associate 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.
- STEVEN D. BROWN, Ph.D. (Washington), Willis F. Harrington Professor: Analytical 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), Willis F. Harrington 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 Spectrometrists: 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.
- BURNABY MUNSON, Ph.D. (Texas), Professor: Analytical chemistry.
- SHARON NEAL, Ph.D. (Emory University), Associate Professor: Analytical chemistry.
- TATYANA POLENOVA, Ph.D. (Columbia), Assistant Professor: Physical 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 V. TEPLYAKOV, Ph.D. (Columbia), Associate 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.
- GLENN P. A. YAP, Ph.D. (Hawaii), X-ray Crystallographer: 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: PAMELA J. GREEN, DONALD L. SPARKS.
- Adjunct Faculty: LEO MANZER, ALBERT MATLACK, MANNY PANAR.

**COGNITIVE SCIENCE**

- BRIAN P. ACKERMAN, Ph.D. (SUNY), Professor, Psychology; also Professor, Linguistics: Developmental risk and family ethnotheory.
- FREDERICK ADAMS, Ph.D. (Wisconsin), Professor and Chair, Philosophy: Epistemology, intentional action, belief ascription.
- BENJAMIN BRÜENING, 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, communication development, cognitive development, and psychology of reading.
- 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.

NANCY C. JORDAN, Ph.D. (Harvard), Associate Professor, Education: reading, language and learning disabilities.

DEBORAH KNIGHT, Ph.D. (University of Georgia), Assistant Professor, Education: special education.

NANCY LAVIGNE, Ph.D. (McGill University), Assistant Professor, Education: educational psychology.

ALEXANDER LEHRMAN, Ph.D. (Yale), Associate Professor, Foreign Languages and Literature: Russian.

CHARLES MACARTHUR, Ph.D. (American University), Associate Professor, Education: special education, reading and writing skills for LD students, vocational assessment of children.

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

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

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.

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

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

PAUL QUINN, Ph.D. (Brown University), Professor, Psychology: perceptual organization, object categorization, and spatial representation.

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

KAREN R. ROSENBERG, Ph.D. (Michigan), Associate Professor and Chair, Anthropology.

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.

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

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

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.

SHARON WALPOLE, Ph.D. (University of Virginia - Charlottesville), Assistant Professor, Education: Literacy.

IRENE VOGEL, Ph.D. (Stanford), Associate Professor, Linguistics: Phonology, morphology.

#### Joint and Adjunct Appointments

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

#### COMMUNICATION

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

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.

JOHN A. COURTRIGHT, Ph.D. (Iowa), Professor; also Director of Undergraduate Studies; also Director of University Honors Program; Interpersonal communication, statistics and research methodology, multi-media presentation technology.

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

BETH B. HASLETT, Ph.D. (Minnesota), Professor: Interpersonal and organizational communication; also Professor, Psychology: Conversational analysis, psychology and sociology of language, communication theory, organizational culture.

R. LANCE HOLBERT, Ph.D. (Wisconsin - Madison), Assistant Professor, Mass communication, political communication, media effects, structural equation modeling.

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

STEVEN T. MORTENSON, Ph.D. (Georgia Southern University), Assistant Professor: Interpersonal communication, intercultural communication, organizational communication, research methods.

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

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; also Director of undergraduate oral communication courses, multi-media presentation.

PHILLIP WESCOTT, M.A. (Indiana University), Instructor: Public relations and advertising.

#### Adjunct Appointment

Student Life: CHARLES L. TARVER.

#### COMPARATIVE LITERATURE

JUDY P. McINNIS, Ph.D. (North Carolina), Professor and Coordinator; 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.

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.

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

PHILIP CONRAD, Ph.D. (Delaware), Assistant Professor: Computer networks.

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), Associate Professor: Computer vision, image processing, computer graphics and multimedia.

LI LIAO, Ph.D. (Peking), Assistant Professor: Bioinformatics, statistical inference, machine learning, artificial intelligence.

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

JELENA MIRKOVIC, Ph.D. (UCLA), Assistant Professor: Network security, fault-tolerant networking, distributed systems, performance evaluation of network protocols and systems.

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

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

CHRISTOPHER E. RASMUSSEN, Ph.D. (Yale), Assistant Professor; Computer vision, mobile robotics, artificial intelligence.

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

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.

MARTIN SWANY, Ph.D. (California, Santa Barbara), Assistant Professor: High performance parallel and distributed computing, system and network support for distributed systems.

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

STEPHEN A. BERNHARDT, Ph.D. (Michigan), Andrew B. Kirkpatrick, Jr., Chair in Writing and; also Professor and Chair.

DEBORAH ANDREWS, M.A. (Wyoming), Professor: Business and Technical Communications.

ANN L. ARDIS, Ph.D. (Virginia), Professor; also Associate Dean of the College of Arts and Science for Arts and Humanities: Theory, modern literature.

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

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

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

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: Creative writing (Poetry) and English education.

MARTIN BRUECKNER, Ph.D. (Brandeis), Assistant Professor: Colonial American literature.

MICHAEL A. COTSELL, Ph.D. (Birmingham), Associate Professor: Victorian literature, Twentieth-Century Drama.

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, Multicultural Studies.

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), H. Fletcher Brown Chair of Humanities and Professor: American literature and English education.

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: Journalism, Modern literature.

JOHN F. JEBB, Ph.D. (Delaware), Assistant Professor, also Assistant Director of Writing for Writing Programs: Composition.

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

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

HEIDI KAUFMAN (New Hampshire), Assistant Professor: Victorian literature.

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: Film Studies, Literary Theory.

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

DONALD C. MELL, Ph.D. (Pennsylvania), Professor: Eighteenth-century British literature.  
 GEORGE MILLER, Ph.D. (Connecticut), Professor: Seventeenth-century literature, bibliography.  
 THOMAS H. PAULY, Ph.D. (California, Berkeley), Professor and Associate Chair: American literature.  
 JEANNE PFAELZER, Ph.D. (University of London), Professor: Nineteenth century American studies, American feminist writing, feminist theory.  
 ELLEN I. PIFER, Ph.D. (California, Berkeley), Professor and Director of Graduate Studies in English; 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.  
 MARY P. RICHARDS, Ph.D. (Wisconsin), Professor: Anglo Saxon and medieval literature.  
 CHARLES E. ROBINSON, Ph.D. (Temple), Professor: Romantic literature.  
 HARRIS E. ROSS, Ph.D. (Arkansas), Associate Professor: Journalism, film.  
 GIBBONS RUARK, M.A. (Massachusetts), Professor: Creative writing (poetry).  
 ELAINE B. SAFER, Ph.D. (Case-Western), Professor: Seventeenth-century literature, Jewish Studies, the novel.  
 A. TIMOTHY SPAULDING, Ph.D. (North Carolina), Assistant Professor: African-American literature.  
 CRUCE STARK, Ph.D. (Harvard), Professor: American literature, Creative writing (fiction).  
 JEANNE MURRAY WALKER, Ph.D. (Pennsylvania), Professor: Creative writing (poetry, scriptwriting), 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 literature and culture.  
 JULIAN D. YATES, Ph.D. (UCLA), Associate Professor: Renaissance literature.

#### Secondary Appointments

Biological Sciences: RIVERS SINGLETON.  
 Communication: RALPH BEGLEITER.  
 Adjunct Faculty:  
 Romanticism: DONALD C. REIMAN  
 Victorian Literature and Cultural: STANLEY WEINTRAUB

#### 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.  
 PERSEPHONE BRAHAM, Ph.D. (Pennsylvania), Assistant Professor: 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.

DONNA COULET DU GARD, M.A. (Delaware), Instructor: French.  
 JORGE H. CUBILLOS, Ph.D. (Penn State), Associate Professor: Spanish.  
 JAMES DeJONG, M.A. (Delaware), Instructor: Spanish.  
 MARY P. DONALDSON-EVANS, Ph.D. (Pennsylvania), Elias Ahuja Professor: French.  
 R. GARY FERGUSON, Ph.D. (Durham, England), Professor: French.  
 GABRIELLA FINIZIO, D.M.L. (Middlebury), Assistant Professor: Italian.  
 CARMEN FINNICUM, M.A. (Delaware), Instructor: Spanish.  
 ANNETTE L. GIESECKE, Ph.D. (Harvard), Associate Professor: Classics.  
 LEE T. GLEN, Ph.D. (Pennsylvania), Assistant Professor: Spanish.  
 NICOLAS P. GROSS, Ph.D. (North Carolina), Associate Professor: Classics and comparative literature.  
 CRISTINA GUARDIOLA, Ph.D. (California, Berkeley), Assistant Professor: Spanish.  
 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.  
 STACEY L. MILKOVICS, M.A. (Colorado State), Instructor: Spanish.  
 MARK MILLER, Ph.D. (Delaware), Assistant Professor: Japanese.  
 KRISTYNA 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.  
 MEREDITH K. RAY, Ph.D. (Chicago), Assistant Professor: Italian.  
 WILLY RIEMER, Ph.D. (Yale), Associate Professor: German.  
 BONNIE A. ROBB, Ph.D. (Bryn Mawr), Associate Professor: French.  
 RICCARDA SAGGESE, Ph.D. (Johns Hopkins), Assistant Professor: Italian.  
 LAURA A. SALSINI, Ph.D. (Indiana), Associate Professor: Italian.  
 CYNTHIA SCHMIDT-CRUZ, Ph.D. (Wisconsin), Associate Professor: Spanish; Director, Latin American Studies Program.  
 ALEXANDER R. SELIMOV, Ph.D. (Pennsylvania), Associate Professor: Spanish.  
 MONIKA SHAFI, Ph.D. (Maryland), Elias Ahuja Professor: German.  
 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.

## 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;  
Associate Chair and Director Environmental Science Program:  
Climate dynamics, glaciology, numerical modeling.

EDMUNDS V. BUNKSE, Ph.D. (California, Berkeley), Professor:  
Cultural geography, history of ideas, urban-cultural geography,  
Baltic Sea region.

TRACY L. DeLIBERTY, Ph.D. (Oklahoma), Associate Professor:  
Geographical information systems, climatology, remote sensing.

DAVID R. LEGATES, Ph.D. (Delaware), Associate Professor and  
Director Center for Climatic research: Hydroclimatology,  
precipitation and climate change, computational methods.

DELPHIS F. LEVIA, Ph.D. (Clark), Assistant Professor: Forest  
hydrology, biometeorology, biogeochemistry, field methods and  
instrumentation.

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:  
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.

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, THOMAS  
E. McKENNA.

University of Delaware College of Marine Studies: KATHARINA  
BILLUPS, CHRISTOPHER K. SOMMERFIELD, WILLIAM J.  
ULLMAN

Adjunct Faculty: DAVID E. KRANTZ, JOHN D. WIK.

## HISTORY

CAROLE R. HABER, Ph.D. (Pennsylvania), Richards Chair of  
History and 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, Ph.D. (Duke), Professor: Latin American  
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.

JESUS CRUZ, Ph.D. (California, San Diego), Associate Professor;  
also Undergraduate Chair of History: Iberian history, European  
social history.

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), Professor; also  
Associate Director, Winterthur Program in Early American  
Culture: eighteenth and nineteenth century U.S. history and  
material culture.

CHRISTINE L. HEYRMAN, Ph.D. (Yale), Distinguished Professor  
of History: American Colonial history, history of American  
religion.

JOHN J. HURT, Ph.D. (North Carolina), Professor: Seventeenth and  
eighteenth century France, French Revolution.

BARRY JOYCE, Ph.D. (California, Riverside), Associate Professor:  
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: African history.

CATHY MATSON, Ph.D. (Columbia), Professor: American Colonial  
and Revolutionary history, and Atlantic world history; also,  
Graduate Studies Director.

RUDI MATTHEE, Ph.D. (California, Los Angeles), Professor:  
Middle Eastern history, Iran.

GARY MAY, Ph.D. (California, Los Angeles), Professor; also  
Director, Master of Arts in Liberal Studies Program: U.S.  
diplomatic relations, America since 1945.

MARK W. McLEOD, Ph.D. (California, Los Angeles), Associate  
Professor: World history, Modern East and Southeast Asian  
history, Vietnam.

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 Director, East Asian Studies Program: Modern China, modern East Asia, Chinese institutional 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: European technology, Soviet history.

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

SUSAN STRASSER, Ph.D. (SUNY Stony Brook), Professor; also Coordinator, University of Delaware - Hagley Program: American industrialization, U.S. social and cultural history since 1873, U.S. business history.

DAVID SUISMAN, Ph.D. (Columbia), Assistant Professor: American cultural and economic history, music and popular culture, history of the senses.

BRYANT F. TOLLES, JR., Ph.D. (Boston), Professor; also Director, Museum Studies; 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.

#### Secondary Appointments

BERNARD L. HERMAN: Edward and Elizabeth Rosenberg Professor of Art History; Director, Center for Materials Culture Studies; Professor of Urban Affairs; Professor of History.

HOWARD B. JOHNSON: Alumni Distinguished Professor of History and Black American Studies.

ERIC W. RISE: Associate Professor, Criminal Justice.

FARLEY GRUBB: Professor, Economics.

#### LEGAL STUDIES

KENNETH J. KOFORD, Ph.D. (UCLA), Professor and Director, Legal Studies; also Professor of Economics, Political Science: Public Choice, Contract Theory, Industrial Organization.

SHELDON D. POLLACK, Ph.D. (Cornell), J.D. (Pennsylvania), Professor and Assistant Director, Legal Studies; also Professor, Accounting and Management Information Systems, Political Science: Business Law, Tax Policy, Constitutional Law and Political Theory.

JOSEPH I. DANIEL, Ph.D. (Minnesota), J.D. (Northwestern), Associate Professor; also Associate Professor of Economics: Law and Economics.

SUE DAVIS, Ph.D. (California, Santa Barbara), Professor; also Professor of Political Science: Constitutional Law and Political Theory.

JULIET L. DEE, Ph.D. (Temple), Associate Professor; also Associate Professor of Communication: Mass Media Law.

JOAN DeFATTORE, Ph.D. (Penn State), Professor; also Professor of English: First Amendment Rights in Schools.

JOSHUA M. DUKE, Ph.D. (Wisconsin), Associate Professor; also Associate Professor, Food and Resource Economics.

CHARLES M. ELSON, J.D. (Virginia), Professor; also, Edgar S. Woolard, Jr. Chair in Corporate Governance: Corporate Governance.

JEREMY M. FIRESTONE, Ph.D. (North Carolina), J.D. (Michigan), Assistant Professor; also Assistant Professor of Marine Policy: International and U.S. Ocean and Coastal Law and Policy.

BENJAMIN FLEURY-STEINER, Ph.D. (Northeastern), Assistant Professor; also Assistant Professor of Sociology and Criminal Justice.

LESLIE F. GOLDSTEIN, Ph.D. (Cornell), Professor; also Unidel Professor of Political Science: Constitutional Law.

KENNETH HAAS, Ph.D. (Rutgers), Professor; also Professor of Sociology and Criminal Justice: Judicial Behavior, Criminal Law, Corrections Law.

VALERIE HANS, Ph.D. (Toronto), Professor; also, Professor of Sociology and Criminal Justice: Law and Social Science, Psychology of Law.

GERARD J. MANGONE, Ph.D. (Harvard), Professor; also University Research Professor, Marine Studies: Maritime and International Law.

ERIC RISE, J.D., Ph.D. (Florida), Associate Professor, also Associate Professor of Sociology and Criminal Justice and Associate Chair: Constitutional Legal History.

NANCY LEE SCHWEDA-NICHOLSON, Ph.D. (Georgetown), Professor; also Professor, Linguistics: Court Interpretation, Bilingualism.

GERALD TURKEL, Ph.D., (California, Santa Barbara), Professor, also Professor, Sociology and Criminal Justice: Social Theory.

LELAND WARE, J.D. (Boston College), Professor, also Louis J. Redding Chair for the Study of Law and Public Policy: Employment Discrimination, Civil Rights Law, Civil Procedure.

RAYMOND B. WOLTERS, Ph.D. (California, Berkeley), Professor, also Professor, History: history of American race relations.

#### LIBERAL STUDIES PROGRAM

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.

MARTHA L. CAROTHERS, M.F.A. (Pennsylvania State University), Director, Center for Teaching Effectiveness; also Professor, Art: Visual communications.

ANNE COLWELL, Ph.D. (Delaware), Associate Professor, Associate in Arts Program.

JOHN DEINER, Ph.D. (Rutgers), Associate Professor, Political Science and International Relations.

KAREN ROSENBERG, Ph.D. (Michigan), Associate Professor, Anthropology; also Chair, Anthropology Department.

JONATHAN RUSS, Ph.D. (Delaware), Assistant Professor, History.

#### LINGUISTICS

WILLIAM J. IDSARDI, Ph.D. (M.I.T.), Associate Professor and Chair: Phonology, phonetics, morphology.

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, VIJAYK.  
SHANKER  
Education: ROBERTA M. GOLINKOFF, RICHARD L. VENEZKY.  
Psychology: BRIAN P. ACKERMAN

### MATHEMATICAL SCIENCES

PHILIP BROADBRIDGE, Ph.D. (Adelaide, Australia), Professor  
and Chair: Mathematics in science and engineering.  
CLIFFORD W. SLOYER, Ph.D. (Lehigh), Professor and Associate  
Chair: Topology and mathematics education.  
THOMAS S. ANGELL, Ph.D. (Michigan), Professor: Optimal  
control theory, differential and integral equations.  
DAVID P. BELLAMY, Ph.D. (Michigan State), Professor: Topology.  
RICHARD BRAUN, Ph.D. (Northwestern), Professor: Perturbation,  
computational methods.  
MICHAEL A. BROOK, Ph.D. (Northeastern Illinois), Instructor:  
Mathematics Education, Preparatory Math.  
JINFA CAI, Ph.D. (Pittsburgh), Professor: Mathematical education.  
FIORALBA CAKONI, Ph.D. (Tirana Univ., Albania) Assistant  
Professor: Scattering theory and inverse problems.  
ANTONIO CIRO, M.S. (Drexel), Instructor: Preparatory Math.  
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.  
ROBERT S. COULTER, Ph.D. (Queensland, Australia), Assistant  
Professor: Discrete Mathematics  
BRYAN CRISSINGER, M.S. (Pennsylvania State Univ), Instructor:  
Applied Statistics  
BETTYANN DALEY, M.S. (Vermont), Instructor: Preparatory Math  
MARGARET DONLAN, M.S. (Toledo), Instructor: Preparatory  
Math  
TOBIN A. DRISCOLL, Ph.D. (Cornell), Associate Professor:  
Numerical Analysis  
CHRISTINE EBERT, Ph.D. (Delaware), Assistant Professor:  
Mathematics Education, Preparatory Math  
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.  
GEORGE C. HSIAO, Ph.D. (Carnegie-Mellon), Professor:  
Differential and integral equations, perturbation theory and fluid  
dynamics.  
MARY ANN HUNTLEY, Ph.D. (U. Maryland, College Park),  
Assistant Professor: Applied Mathematics, Curriculum and  
Instruction  
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.  
PETER B. MONK, Ph.D. (Rutgers), Unidel Professor: Numerical  
analysis.  
PATRICK F. MWERINDE, Ph.D. (Columbia), Assistant Professor:  
Mathematics Education, Preparatory Math  
DAVID O. OLAGUNJU, Ph.D. (Northwestern), Associate Professor:  
Applied mathematics  
JOHN A. PELESKO, Ph.D. (New Jersey Instit. Of Technology),  
Assistant Professor: Engineering Mathematics

GERALDINE PRANGE, M.S. (St. Louis), Instructor, Preparatory  
Math  
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.  
LOUIS F. ROSSI, Ph.D. (U. Arizona), Associate Professor: Applied  
Mathematics  
LILLIAN RUSSELL, M.S. (Delaware), Instructor: Applied Statistics  
GILBERTO SCHLEINIGER, Ph.D. (California, Los Angeles),  
Associate Professor: Applied mathematics, fluid dynamics,  
scientific computing.  
ANTHONY SERAPHIN, M.S. (Delaware), Instructor: Preparatory  
Math.  
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.  
Information Technologies: RICHARD S. SACHER  
Mathematics and Science Education Resource Center: KATHLEEN  
A. HOLLOWELL.  
Electrical Engineering: XIANG-GEN XIA  
Mechanical Engineering: LEONARD W. SCHWARTZ  
Adjunct Faculty: ALAN JEFFREY, RAINER KRESS, EMEKA  
NWANKO, LASSI PAIVARINTA, GARY ROACH,  
WOLFGANG WENDLAND.

### MILITARY SCIENCE

ROBERT S. BROWN, M.M.A.S. (U.S. Army Command & General  
Staff College), Lieutenant Colonel, United States Army; Chair  
and Commander.  
WILLIAM BARTON, Master Sergeant, United States Army;  
Instructor.  
GEORGE L. DOWNEY, B.S. (Clarion), 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.  
GREGORY S. SNAPP, B.A. (Delaware), 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), Acting Director,  
WPEAC; 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**

JAMES C. PRODAN, D.M.A. (Ohio State University), Professor and Chair: Oboe.

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

CYNTHIA L. CARR, M.M. (Florida State), Professor and Coordinator of Graduate Studies: Horn.

JAMES P. 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), Associate Professor: Music theory and composition.

SUZANNE L. BURTON, Ph.D. (Michigan State), Assistant Professor: Music Education

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

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

PAUL D. HEAD, D.M.A. (Oklahoma), Associate Professor: Director of Choral Studies.

DAVID HERMAN, D.M.A. (Kansas), University Organist and Trustees Distinguished 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.

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

CHARLES V. SALINGER, B.M. (Curtis), Instructor: Clarinet and Saxophone.

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

LLOYD C. SHORTER, B.F.A. (Ithaca), Assistant Professor: Oboe.

TAMARA SMITH, M.P.A. (Delaware), Music Events Coordinator and Director, Community Music School.

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.

RUTH M. TAUBER, M.A. (Delaware), Assistant to the Chair.

**Joint Appointments**

Education: FRED T. HOFSTETTER.

Adjunct Faculty: ELAINE M. BRENCHLEY, JAN BROSKA, NICOLE CLOUSER, PHILIP DOUCETTE, JON GAARDER, ANNE GROSS, TODD GROVES, JILL HANNAGAN, VERNON JAMES, VINCE MARINELLI, ANDREAS MEYER, MICHAEL MORGAN, MICHAEL O'CONNOR, TOM PALMER, CAROL PRODAN, JOHN SARRO, REBECCA SILER, ANNE SULLIVAN, TONY VENTURA, FREDERICK WEISS.

**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.

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), Associate 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), Associate Professor: Ethics, Jewish philosophy, metaethics.

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

**PHYSICAL THERAPY**

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

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

CARL EATON, M.P.T., A.T.C. (Delaware), Physical Therapist: Physical Therapy Clinic.

JAMES C. GALLOWAY, Ph.D., P.T. (Arizona), Assistant Professor: Development of infant motor behaviors.

NOEL M. GOODSTADT, M.P.T. (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.

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

DARCY REISMAN, Ph.D., P.T. (St. Scholastics), Assistant Professor: Analysis of disorder movement control in persons with neurologic conditions.



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 A. SCHMITT, M.S.P.T., S.C.S., A.T.C. (Beaver College), Associate Director of 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

GEORGE HADJIPANAYIS, Ph.D. (Manitoba), Richard B. Murray Professor and Chair: Experimental condensed matter physics, magnetism, nanocrystalline materials.  
 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.  
 DAVID R. JOHNSON, M.S. (Delaware), Undergraduate Laboratory Coordinator.  
 CHUNG N. LEUNG, Ph.D. (Minnesota), Professor: Elementary particle theory.  
 JAMES MacDONALD, Ph.D. (Cambridge), Professor: Astronomy and astrophysics, white dwarfs, cataclysmic variables.  
 JOHN D. MORGAN, Ph.D. (California, Berkeley), Associate Professor: Theoretical atomic and molecular physics.  
 NORBERT MULDER, Ph.D. (Delaware), Associate Professor: Condensed matter, low temperatures.  
 BRANISLAV K. NIKOLIC (SUNY, Stony Brook), Assistant Professor: Theoretical condensed matter physics.  
 EDMUND NOWAK, Ph.D. (Minnesota), Assistant Professor: Condensed matter, strongly correlated systems, superconductivity and granular materials.  
 MARIANNA SAFRONOVA, Ph.D. (Notre Dame), Assistant Professor: Theoretical atomic physics and quantum computation.  
 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), Associate Professor: Experimental atomic, molecular, and optical physics.  
 GEORGE H. WATSON, Ph.D. (Delaware), Unidel Professor and Associate Dean of College of Arts and Sciences for Natural Sciences and Mathematics: 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: Space physics, 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

JAMES MAGEE, Ph.D. (Virginia), Professor and Chairperson: Public law.  
 GRETCHEN BAUER, Ph.D. (Wisconsin), Associate Professor; also Associate Dean, College of Arts and Sciences; African and comparative politics, women and politics.  
 ALICE BA, Ph.D. (Virginia), Assistant Professor and Undergraduate Director: East Asia and comparative politics.  
 KENNETH J. CAMPBELL, Ph.D. (Temple), Associate Professor and Director, International Relations Program: 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), Judge Hugh M. Morris 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 Sciences; also Professor, Urban Affairs and Public Policy: Public administration.  
 JANET B. JOHNSON, Ph.D. (Cornell), Associate Professor; also Associate Professor, Urban Affairs and Public Policy: Environmental policy, state and local government, research methods.  
 STUART KAUFMAN, Ph.D. (University of Michigan), Professor: International relations.

WILLIAM H. MEYER, Ph.D. (Iowa), Professor: International relations.

MARK J. MILLER, Ph.D. (Wisconsin), Emma Smith Morris Professor in Political Science and International Relations: Comparative politics.

JASON MYCOFF, Ph.D. (Ohio State), Assistant Professor: American Government Institutions, Methodology

MARIAN L. PALLEY, Ph.D. (New York University), Professor; also, Professor, Urban Affairs and Public Policy, also Professor, College of Marine Studies, also Director and Professor, Women's Studies Program: Public policy analysis, urban politics and administration.

JOSEPH A. PIKA, Ph.D. (Wisconsin), Professor: American and public administration.

CLAIRE E. RASMUSSEN, Ph.D. (University of Washington), Assistant Professor: Public law and political theory.

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

THOMAS M. DiLORENZO, Ph.D. (West Virginia), Professor and Chair: Health psychology, cognitive changes in college students, program evaluation.

BRIAN P. ACKERMAN, Ph.D. (SUNY, Stony Brook), Professor and Director of Undergraduate Education: Cognitive development, emotional development, developmental risk.

LAWRENCE H. COHEN, Ph.D. (Florida State), Professor: Stress and coping, psychopathology and psychotherapy.

MARY DOZIER, Ph.D. (Duke), Amy E. du Pont Chair in Child Development and Professor: Developmental psychopathology, early intervention.

ROBERT W. EISENBERGER, Ph.D. (California, Riverside), Professor: Human motivation, organizational behavior, intrinsic task interest, and learned industriousness.

SAMUEL L. GAERTNER, Ph.D. (City University of New York), Professor: Intergroup relations.

JAMES E. HOFFMAN, Ph.D. (Illinois), Professor: Attention, eye movements, spatial cognition, and event-related brain potentials.

JULIE HUBBARD, Ph.D. (Duke), Associate Professor: The study and treatment of children's difficulties with peer relations, aggression, and emotion regulation.

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

CARROLL E. IZARD, Ph.D. (Syracuse), Trustees Distinguished Professor: Emotions and preventive intervention, development of emotion knowledge, emotion regulation, and socioemotional competence.

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

R. ROGERS KOBAK, Ph.D. (Virginia), Associate Professor: Adolescents' family and peer relationships, developmental risk.

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.

BETH A. MORLING, Ph.D. (University of Massachusetts, Amherst), Assistant Professor: Social and personality psychology, cultural psychology.

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

PAUL C. QUINN, Ph.D. (Brown University), Professor: Developmental Cognitive Science.

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 University), Professor: Neural integration of sleep, circadian rhythms, thermoregulation; motivated behavior, aging.

ROBERT F. SIMONS, Ph.D. (Wisconsin), Professor and Associate Chair: Human psychophysiology, emotion, information processing.

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

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

## 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 Associate 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. (American University), Associate 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.

AARON FICHTELBERG, Ph.D. (Emory), Assistant Professor: Philosophy of law, ethics, political philosophy.

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

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.

VIVIAN L. KLAFF, Ph.D. (Wisconsin), Associate Professor: Demography, urban sociology.

CAROL C. MARKS, Ph.D. (New York University), Professor: Race/ethnic/minority relations, urban sociology.

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.

GRAHAM C. OUSEY, Ph.D. (Louisiana State), Assistant Professor: Criminology/delinquency; statistics, deviant behavior.

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

HAVIDAN RODRIGUEZ, Ph.D. (Wisconsin), Professor, Demography, Sociology of disasters and Latino/a Sociology, also Director, Disaster Research Center.

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

IVAN Y. SUN, Ph.D. (SUNY, Albany), Assistant Professor: Policing, theoretical criminology, comparative criminal justice.

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

TRICIA WACHTENDORF, Ph.D. (Delaware), Assistant Professor: Sociology of disasters, collective behavior, qualitative methods.

**Joint and Adjunct Appointments**  
 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.

DEENA BURKE, Certificate (The Julliard School), Associate Professor: Stage speech, voice 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, Costume Manager.

LESLIE REIDEL, M.F.A. (Temple), Professor: Acting, directing.

EILEEN T. SMITHEIMER, B.A. (Purdue), Associate Professor: Technical 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

J. RITCHIE GARRISON, Ph.D. (Pennsylvania), Director; also Associate Professor, History: Colonial period, material culture.

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

ANNE BOYLAN, Ph.D. (Wisconsin), Professor, History: Women's studies, antebellum America.

MARTIN BRUECKNER, Ph.D. (Brandeis), Assistant Professor: Colonial American literature.

LUANN DE CUNZO, Ph.D. (Pennsylvania), Associate Professor, Anthropology: Archaeology and material culture.

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

CAROLE HABER, Ph.D. (Pennsylvania), Richards 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), Distinguished Professor, History: Colonial period.

MATTHEW KINSERVIK, Ph.D. (Penn State), Associate 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 Professor in American Art and Chair, Art History: Nineteenth and Twentieth Century American Art.

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

CATHY MATSON, Ph.D. (Columbia), 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, CATHERINE COONEY, WENDY COOPER, LINDA EATON, PAULINE EVERSMANN, DONALD L. FENNIMORE, LESLIE GRIGSBY, PATRICIA HALFPENNY, BROCK JOBE, GARY KULIK, RICHARD MCKINSTRY, 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 Dean, Social Sciences and History; also Associate Professor, Political Science.

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), Associate Professor; also Associate Professor, English: Asian-American film.

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

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

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

ELIZABETH HIGGINBOTHAM, Ph.D. (Brandeis), Professor; also Professor, Sociology and Criminal Justice: Race, gender, stratification.

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

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

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

RUDOLF MATTHEE, Ph.D. (California, Los Angeles), Professor; also 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 Associate Professor, Music: Music history.

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

LINDA PELLECCIA, 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), Mae and Robert Carter 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

JANIS A. TOMLINSON, Ph.D. (University of Pennsylvania), Director, University Museums.

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

AMALIA AMAKI, Ph.D. (Emory University), Curator, Paul R. Jones Collection.

TIM GOECKE, M.F.A. (California Institute of the Arts), Head Exhibition Designer.

### UNIVERSITY ASSOCIATE IN ARTS PROGRAM

#### Wilmington Campus

DAVID TEAGUE, Ph.D. (Virginia), Faculty Coordinator, Wilmington; also Associate Professor of English.

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.

#### Dover Campus

SHARON S. TUCKER, Ph.D. (Rutgers), Faculty Coordinator, Dover; also Associate Professor of Biology.

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

CARLA C. MORRIS, Ph.D. (Delaware), Assistant Professor of Mathematics.

#### Georgetown Campus

ANNE A. COLWELL, Ph.D. (Delaware), Faculty Coordinator, Georgetown; also Associate Professor of English.

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

JOHN T. DEINER, Ph.D. (Rutgers), Associate Professor of Political Science and International Relations.

NANCY S. HALL, M.A. (Delaware), Associate 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.

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

### UNIVERSITY WRITING CENTER

GILDA T. KELSEY, M.A. (Delaware), Assistant Director of Writing for the Writing Center; also Instructor, English.

## ALFRED LERNER 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.  
 LINDA DUNN, Ed. D. (Delaware), Manager of Communications and Outreach.  
 GLORIA Z. DIODATO, M.B.A. (Delaware), Assistant Dean.  
 MARCIA R. ROLLISON, M.A. (New Hampshire), Assistant Dean.  
 LINDA SOMERS, B.S. (Delaware), Business Manager.

### 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; also, Associate Dean, Lerner College of Business Economics: Management information systems.  
 JOSEPH A. BRADY, Ph.D. (Delaware), Instructor: Management information systems.  
 DALE BUCKMASTER, Ph.D. (Penn State), C.P.A., Professor: Financial accounting.  
 SPRING DAVIDSON, B.S. (UMBC), Instructor: Management information systems.  
 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.  
 DEBRA DRAGONE, M.S. (Delaware), Instructor: Accounting.  
 ANDREA EVERARD, Ph.D. (Pittsburgh), Assistant Professor: Management information systems.  
 GUIDO GEERTS, Ph.D. (Free University of Brussels), Associate Professor: Accounting information systems.  
 JACKSON F. GILLESPIE, Ph.D. (Virginia Tech), C.M.A., Associate Professor: Management accounting.  
 MICHAEL J. GINZBERG, Ph.D. (MIT), Chaplin Tyler Professor of Business; also Dean, Lerner College of Business and Economics: Management information systems.  
 THOMAS J. HOFFERD, Ph.D. (Central Florida), C.P.A., Assistant Professor: Accounting information systems.  
 DAVID S. JENKINS, Ph.D. (Maryland), C.P.A., Assistant Professor: Auditing and financial accounting.  
 THOMAS JOHNSTON, B.S. (Indiana - PA), Instructor: Management information systems.  
 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), Professor: Business law.  
 JANIS R. REEDER, Ph.D. (South Carolina), C.P.A., Associate Professor: Taxation.  
 WINIFRED SCOTT, Ph.D. (Florida State), C.P.A., Assistant Professor: Financial accounting.  
 MARK A. SERVA, Ph.D. (Texas), Assistant Professor: Information systems.

MICHAEL G. VAN LEER, M.B.A. (Drexel), C.P.A., Instructor: Financial and managerial accounting.  
 UMA VELURY, Ph.D. (South Carolina), Assistant Professor: Financial accounting.  
 CLINTON E. WHITE, JR., D.B.A. (Indiana), Professor: Accounting information systems and auditing.  
 JOHN H. WRAGGE, Ph.D. (Houston), C.P.A., Associate Professor: Management accounting and information systems.  
 DIANE WRIGHT, M.B.A., (Delaware), C.P.A., Instructor; also Project Director for the MIS minor: Management information systems.

### BUSINESS ADMINISTRATION

JOHN E. SAWYER, Ph.D. (Illinois), Professor and Chair; also Professor, Psychology: Management.  
 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.  
 V. CARTER BROACH, Ph.D. (Michigan State), Instructor: Marketing.  
 CENK CALISKAN, Ph.D. (S. California), Assistant Professor: Operations management.  
 DARWIN J. DAVIS, Ph.D. (Indiana), Associate Professor: Operations management.  
 YANCY EDWARDS, Ph.D. (Ohio), Assistant Professor: Marketing.  
 DIANE L. FERRY, Ph.D. (Pennsylvania), Associate Professor; also Area Head for Management: 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), Chaplin Tyler Professor of Business; also Dean, Lerner College of Business and Economics: Management information systems.  
 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), Associate Professor: Operations management.  
 TAI GYU KIM, Ph.D. (Carnegie Mellon), Assistant Professor: 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.  
 SUSAN MURPHY, M.B.A. (Baltimore), Instructor: Operations management.

JOHN F. PREBLE, Ph.D. (Massachusetts), Associate Professor: Management.  
 ERWIN M. SANIGA, Ph.D. (Penn State), Dana J. Johnson Professor; also Area Head for Operations Management: Operations.  
 STEWART A. SHAPIRO, Ph.D. (Arizona), Associate Professor; also Area Head for Marketing: Marketing.  
 ANU SIVARAMAN, Ph.D. (Houston), Assistant Professor: Marketing.  
 DANIEL P. SULLIVAN, Ph.D. (South Carolina), Associate Professor: Management.  
 SHARON WATSON, Ph.D. (South Carolina), Associate 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; also Professor, Women's Studies: 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: International economics.  
 DAVID E. BLACK, Ph.D. (M.I.T.), Associate Professor: Public economics.  
 JAMES L. BUTKIEWICZ, Ph.D. (Virginia), Professor: Macroeconomics.  
 ELEANOR D. CRAIG, M.A. (Pennsylvania), Associate Professor: Public economics.  
 JOSEPH I. DANIEL, Ph.D. (Minnesota), Associate Professor; also Associate Professor, Legal Studies: Industrial organization.  
 LAWRENCE P. DONNELLEY, Ph.D. (Brown), Associate Professor: International economics.  
 EVANGELOS M. FALARIS, Ph.D. (Minnesota), Professor: Econometrics.  
 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, and Professor and Director, Legal Studies: Public choice, contract theory, industrial organization.  
 WILLIAM R. LATHAM III, Ph.D. (Illinois), Associate Professor: Urban and regional economics.  
 CHARLES R. LINK, Ph.D. (Wisconsin), MBNA America Professor of Business: Labor economics.  
 JEFFREY B. MILLER, Ph.D. (Pennsylvania), Professor: Comparative systems.  
 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 economics.  
 DAVID R. STOCKMAN, Ph.D. (University of Chicago), Assistant Professor: Macroeconomics.  
 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

PAUL A. LAUX, Ph.D. (Vanderbilt), Professor and Chair.  
 M. ANDREW FIELDS, Ph.D. (Virginia Tech), Associate Professor: 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; also Professor, Legal Studies, and Director, John L. Weinberg Center for Corporate Governance: Corporate law, corporate governance.  
 STUART GILLAN, Ph.D., (Texas), Assistant Professor: Corporate governance, institutional investors and capital markets.  
 JEFFREY H. HARRIS, Ph.D. (Ohio State), Associate 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.  
 RAJKUMAR S. VARMA, Ph.D. (Penn State), Professor: Corporate finance, corporate governance, raising capital.

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### COLLEGE OF ENGINEERING

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#### OFFICE OF THE DEAN

ERIC W. KALER, Ph.D. (Minnesota), Dean; also Elizabeth Inez Kelly Professor, Chemical Engineering.  
 L. PAMELA COOK-IOANNIDES, Ph.D. (Cornell), Associate Dean; also Professor, Mathematical Sciences.  
 DICK J. WILKINS, Ph.D. (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.  
 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.  
 MARIANNE JOHNSON, B.A. (Shaw), Program Manager, RISE.  
 DEIRDRE SMITH, M.C.E. (Delaware), Director of Development.  
 JOSEPH C. TANNER, B.S. (Penn State), Coordinator, Engineering Outreach.

### AIR FORCE ROTC

JEFFREY W. WANDREY, M.S. (Dayton), Lieutenant Colonel, United States Air Force; Professor and Chair.  
 SARAH F. MAYNARD, M.S. (University of Missouri Rolla), Captain, United States Air Force; Assistant Professor.  
 ANN M. D. STEVENSON, M.B.A. (Touro University), First Lieutenant, 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 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), Professor, Mechanical Engineering: Control of mechanical systems, robotics, optimization.  
 DAVID A. BARLOW, Ph.D. (Indiana), Associate Professor, Health, Nutrition 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.  
 JUN DING, Ph.D. (University of Delaware), Research Scientist, Physical Therapy: mathematical modeling of muscle force and fatigue, identify optimal activation scheme for functional electrical stimulation  
 WILLIAM FARQUHAR, Ph.D. (Pennsylvania State University), Assistant Professor, Health, Nutrition and Exercise Sciences: Integrative/exercise physiology of the cardiovascular system, Fluid-regulatory control mechanisms and autonomic reflexes with application to hypertension.  
 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, Nutrition and Exercise Sciences: Development of interlimb coordination and motor control in multilimb tasks.  
 GEOFFREY GUSTAVSEN, M.D. (University of Washington), Associate Professor, Health, Nutrition and Exercise Sciences: Sports medicine, electroacupuncture and ankle instability.  
 SUSAN J. HALL, Ph.D. (Washington State), Professor and Chair, Health, Nutrition and Exercise Sciences: Lumbar spine biomechanics, exercise efficacy, sport biomechanics.  
 SLOBODAN JARIC, Ph.D. (University of Belgrade), Associate Professor, Health, Nutrition and Exercise Sciences: motor control and biomechanics of human movements; relationship among muscle strength, functional movement performance, and body size; coordination of the hand grip-force with external forces, movement variability; relationship between visually perceived external space, movement planning and programming.  
 MICHAEL KEEFE, P.E., Ph.D. (Minnesota), Associate Professor, Mechanical Engineering: Geometric modeling of complex biological surfaces.  
 CHRISTOPHER A. KNIGHT, Ph.D. (Massachusetts), Assistant Professor, Health, Nutrition and Exercise Sciences: Motor unit discharge behavior as it relates to the control of muscular force, the aging neuromuscular system.  
 KURT MANAL, Ph.D. (University of Delaware), Assistant Professor, Mechanical Engineering: musculoskeletal modeling; biomechanical analysis of assisted technology; motion analysis.  
 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.  
 CHRIS MODLESKY, Ph.D. (University of Georgia): Assistant Professor, Health, Nutrition and Exercise Sciences: human cardiovascular physiology; potential interaction of fluid-regulatory control mechanisms and autonomic reflexes related to human hypertension; venous compliance and orthostatic tolerance.  
 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), Distinguished Professor, Health, Nutrition and Exercise Sciences: Device design and gross musculoskeletal modeling, gait analysis, sport biomechanics.  
 ROBERT ROGERS, Ph.D. (University of Pennsylvania), Assistant Professor, Electrical and Computer Engineering: Signal processing in the respiratory control system, neurophysiology.  
 TODD ROYER, Ph.D. (Arizona State), Assistant Professor, Health, Nutrition 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, P.E., Ph.D. (Berkeley), Associate Professor, Mechanical Engineering: Suppression of abnormal tremor, stability of human movement.

### BIOENGINEERING

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.  
 PRASAD S. DHURJATI, Ph.D. (Purdue), Professor of Chemical Engineering: Biosystems modeling, bioprocess engineering  
 JEREMY S. EDWARDS, Ph.D. (California at San Diego), Assistant Professor of Chemical Engineering: Metabolic engineering and biotechnology

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), Gore Professor of Chemical Engineering: Bioengineering, transport phenomena.

BABATUNDE A. OGUNNAIKE, Ph.D. (Wisconsin), William L. Friend Professor of Chemical Engineering: Process control, modeling and simulation, product and process engineering.

CHRISTOPHER J. ROBERTS, Ph.D. (Princeton), Assistant Professor of Chemical Engineering: protein stabilization; biopharmaceutical engineering.

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), Robert L. Pigford Professor and Chair; 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.), Arthur B. Metzner 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), Gore 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.

BABATUNDE A. OGUNNAIKE, Ph.D. (Wisconsin), William L. Friend Professorship in Chemical Engineering: Process control, modeling and simulation; nonlinear process identification; controlled reactive extrusion; systems biology; product and process engineering; applied statistics.

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), Associate Professor: Molecular and cellular engineering for improved protein production.

T.W. FRASER RUSSELL, P.E., Ph.D. (Delaware), Allan P. Colburn Professor: Semiconductor reaction and reactor engineering, photovoltaic unit operations, multi-phase fluid mechanics, also Vice Provost for Research.

STANLEY I. SANDLER, Ph.D. (Minnesota), Henry Belin du Pont Chair; 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, P.E., Ph.D. (M.I.T.), Associate Professor: Polymer and composite rheology and processing, polymer degradation.

DIONISIOS G. VLACHOS, Ph.D. (Minnesota), Professor: Reacting flows, catalytic combustion, partial oxidation, surface chemistry, thin films, nonophasic materials, membranes, nucleation, growth, multiscale modeling, bifurcation theory.

NORMAN J. WAGNER, Ph.D. (Princeton), Professor: Rheology of colloidal dispersions, nanoparticles, surfactant, biopolymer and polymer solutions, and structured polymers and polymer blends; nonequilibrium statistical mechanics and thermodynamics of complex fluids; molecular mechanics of diffusion in nanostructured materials.

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, R. BERTRUM DIEMER, DOUGLAS J. DOREN, WILLIAM E. FARNETH, ROBERT K. GRASELLI, KRISTI L. KIICK, STEVEN R. LUSTIG, JAMES E. LYONS, WILLIAM H. MANOGUE, JOHN R. RICHARDS, MARK R. SCHURE, JAMES S. SCHWABER, KLAUS H. THEOPOLD, JEAN-FRANCOIS TOMB, KURT F. WISSBRUN.  
Off-Campus Faculty: ARTHUR W. ETCHELLS, JAMES J. GRANT, RICHARD K. GRENVILLE, ALLAN E. JONES, RICHARD K. LAROCHE, KENNETH L. MULHOLLAND, DAVID SHORT, JAMES N. TILTON, ALAN E. UEBLER.

### 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; also Director: Center for the Studies of Metals in the Environment; Water and sediment chemistry, heavy metal pollution.

NII O. ATTOH-OKINE, Ph.D. (Kansas), Associate Professor: Pavement analysis and design, pavement performance modeling, statistical methods in pavement engineering, civil infrastructure systems.



BAIDURYA BHATTACHARYA, Ph.D. (Johns Hopkins), Assistant Professor: Probability mechanics, probability-based modeling and design, structural deterioration and reliability.

DANIEL KUHYN CHA, Ph.D. (California, Berkeley), Associate Professor: Process control of biological wastewater treatment facilities, biotransformation of organic and inorganic toxic pollutants, bioenvironmental engineering.

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.

DOMINIC M. DITORO, Ph.D. (Princeton), Distinguished Professor: Development and application of mathematical and statistical analyses to stream, lake, estuarine, and coastal water quality and sediment problems and water quality modeling.

ARDESHIR FAGHRI, Ph.D. (Virginia), Professor; also Director, Delaware Center for Transportation: 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), Associate 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), E.C. Davis 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: Soil mechanics, geotechnical engineering.

DENNIS R. MERTZ, Ph.D. (Lehigh), 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), Associate 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 BADIEY, 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), Charles Black Evans Professor and 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.

STEPHAN BOHACEK, Ph.D. (Southern California), Assistant Professor: Congestion control, routing, internet security and pricing, ad hoc networks, control theory, biomedical modeling.

CHARLES G. BONCELET, Ph.D. (Princeton), Professor: Signal processing, source coding, digital communications, networks, security, computer science.

LEONARD J. CIMINI, JR., Ph.D. (Pennsylvania), Professor: Wireless communications and networks, multiple-antenna radar systems, sensor networks, resource management.

JOHN G. ELIAS, Ph.D. (Yale), Professor: User interfaces, computer architecture, 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), Associate Professor: Information processing in communications and biological systems, wireless communications, coding for multi-terminal sources with applications in sensor networks, iterative decoding schemes for source, channel and joint source-channel coding.

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 and circuits.

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 KIAMILEV, Ph.D. (California at San Diego), Professor: Design and test of high-performance digital and analog CMOS and BiCMOS VLSI circuits, optoelectronic integrated circuits, optoelectronic VLSI.

JAMES KOLODZIEY, Ph.D. (Princeton), Professor: Nanoelectronic materials and devices, molecular beam epitaxy, terahertz frequency devices and 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: Computational electromagnetics, modeling and design of RF, millimeter wave, and photonics devices; high resolution lithography, materials growth, nano-fabrication, experimental characterization and subsystem integration of information and sensing systems.

ROBERT F. ROGER, Ph.D. (Pennsylvania), Assistant Professor: Systems neuroscience, neural encoding/decoding, cardiorespiratory control, computational modeling, optical imaging, electrophysiology, bioimplantable devices.

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), Professor: Wireless communications (MIMO systems and space-time coding), channel coding, signal processing, SAR/ISAR imaging of moving targets.

#### **Joint, Adjunct, and Secondary Appointments**

Computer and Information Sciences: PAUL D. AMER, ADARSHPAL S. SETHI

Marine Studies: VICTOR V. KLEMAS

Psychology: DAVID P. M. NORTHMORE

Adjunct Faculty: MICHAEL J. PIOVOSO

Secondary Appointments: ALLEN M. BARNETT, XIANG HU, JANUZ MURAKOWSKI, GARRETT J. SCHNEIDER, KARL V. STEINER, SHI SHOUYUAN

#### **MATERIALS SCIENCE AND ENGINEERING**

JOHN F. RABOLT, Ph.D. (Southern Illinois), Karl W. and Renate Böer Professor and Chair: Macromolecular assemblies, spectroscopy, thin organic films, biomolecular materials, polymer physics, self-assembled monolayers (SAMs).

MARY E. GALVIN-DONOGHUE, 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), Professor; also 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**

THOMAS S. BUCHANAN, Ph.D. (Northwestern), Professor and Chair, Mechanical Engineering Department: Musculoskeletal biomechanics, neural control of movement, medical imaging.

MICHAEL KEEFE, P.E., 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.

TSU-WEI CHOU, Ph.D. (Stanford), P.S. duPont Chair of Engineering; also Professor, Mechanical Engineering Department: Composite materials, nanomaterials, fracture of solids and applied mechanics.

MICHAEL D. GREENBERG, Ph.D. (Cornell), Professor: Applied mathematics, fluid mechanics.

IAN W. HALL, Ph.D. (Leeds), Associate Professor: Metal matrix composites, electron microscopy, materials science, metallurgy.

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, P.E., Ph.D. (Stanford), Professor; also Professor, Mathematical Sciences: Fluid mechanics, multiphase flow, applied mathematics.

JIAN-QIAO SUN, P.E., Ph.D. (California, Berkeley), 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, P.E., 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: TRAVIS A. BOGETTI, STEPHEN C. DANFORTH, RICHARD ELEY, EDWARD P. GARGIULO, GEORGE GAZONAS, ROGER V. GONZALEZ, WOJCIECH GRABOWSKI, SANKU MALLIK, FABIAN MAUSS, FREEMAN MILLER, ERIC D. WETZEL.

## COLLEGE OF HEALTH AND NURSING SCIENCES

### OFFICE OF THE DEAN

BETTY J. PAULANKA, Ed.D. (Temple), Dean and Professor.  
JAMES G. RICHARDS, Ph.D. (Indiana), Associate Dean and Distinguished Professor of Health, Nutrition and Exercise Sciences: Applied biomechanics.  
SUZANNE B. CLARK, M.Ed. (Delaware), Assistant Dean for Student Services.  
J. ROBIN BUCCOS, B.S. (Shippensburg), Administrative Coordinator.  
RACHEL A. STRICKLAND, M.B.A. (Delaware), Business Manager.

### HEALTH, NUTRITION, 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.  
LETA P. ALJADIR, M.S. (Drexel), Associate Professor: Maternal and fetal nutrition, metabolic effects of dietary fiber, computer-based nutrition education.  
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.  
NANCY COTUGNA, Dr.PH. (Loma Linda), Professor: Dietetics education, community/public health nutrition, cancer risk reduction.  
TIMOTHY DeSCHRIEVER, Ed.D. (Northern Colorado), Assistant Professor: Sport management.  
KAREN F. EDWARDS, Ed.D. (Temple), Associate Professor: Health education.  
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.  
WILLIAM B. FARQUHAR, Ph.D. (Penn State), Assistant Professor: Exercise physiology.  
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, Ph.D., A.T.C. (Virginia), Assistant Professor: Athletic training.  
DAVID HUDSON, MPT (Delaware), Instructor: Biomechanics.  
SLOBODAN JARIC, Ph.D. (University of Belgrade), Associate Professor: Motor control.  
JAMES W. KENT, Ph.D. (Iowa), Associate Professor: Curriculum/pedagogical techniques in physical education.

CHRISTOPHER A. KNIGHT, Ph.D. (Massachusetts), Assistant Professor: Motor control.  
ELIZABETH M. LIEUX, Ph.D. (Virginia Tech), Associate Professor: Labor productivity, total quality management, management styles, educational strategies.  
RON E. LUDINGTON, Director, Ice Skating Science Development Center.  
CAROLYN K. MANNING, M.Ag. (Florida), Associate Professor: Food safety education, child nutrition, food service systems, productivity.  
CHRISTOPHER MODLESKY, Ph.D. (Georgia), Assistant Professor: Exercise physiology, nutrition, bone.  
ROBERT E. NEEVES, Ph.D. (Utah), Professor: Exercise physiology.  
JOHN J. O'NEILL, M.Ed. (Delaware), Assistant Professor; also Co-Director, Ice Skating Science Development Center.  
ELIZABETH ORSEGA-SMITH, Ph.D. (Penn State), Assistant Professor: Community health.  
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), Associate Dean and Distinguished Professor of Health, Nutrition and Exercise Sciences: Applied biomechanics.  
MATTHEW J. ROBINSON, Ed.D. (Temple), Associate 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.  
KELEBOGILE V. SETILOANE, Ph.D. (Tufts University), Assistant Professor: Under-nutrition in children of urban and developing countries.  
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.  
CONNIE E. VICKERY, Ph.D. (Virginia Tech), Professor: Clinical dietetics education, nutrition education, nutrition counseling, nutrition and the elderly.  
D. ALLAN WATERFIELD, Ph.D. (Ohio State), Professor: Exercise physiology.

### Joint Appointments

Intercollegiate Athletics: KRISTEN CARSON, MIKE KING, STEPHANIE SZALMA.  
Animal and Food Sciences: O. SUE SNIDER.

### MEDICAL TECHNOLOGY

ANNA P. CIULLA, M.C.C. (Hahnemann), Associate Professor and Chair: Clinical chemistry.  
KAREN R. BRINKER, B.S. (Delaware), Instructor: Clinical chemistry.  
DONALD C. LEHMAN, Ed.D. (Delaware), Assistant Professor: Medical microbiology, computers, statistics, immunology, virology.  
RAELEN E. MASER, Ph.D. (Pittsburgh), Associate Professor: Diabetic complications, neuropathy, epidemiology, hematology.  
MARY ANN McLANE, Ph.D. (Temple), Associate Professor: Integrin-ligand interactions, clinical chemistry.  
PAULA A. MELANCON, B.S. (Delaware), Laboratory Coordinator: Hematology, immunohematology.  
MARY BETH MIELE, Ph.D. (Penn State), Associate Professor: Melanoma, cancer metastasis, immunodiagnostics, microbiology.

MARK L. MITCHELL, M.D. (University of Michigan Medical School), Adjunct Associate Professor and Medical Director: Anatomic and clinical pathology, molecular biology.  
 KATHLEEN STARK, B.S. (Delaware), Laboratory Coordinator: Medical microbiology, mycology.  
 MONICA B. TADLER, B.S. (Delaware), Laboratory Coordinator: Phlebotomy, urinalysis, virology, immunology.

#### NURSING

LISA ANN PLOWFIELD, Ph.D. (Virginia), Professor and Chair: Trauma, critical care.  
 PAMELA BEEMAN, Ph.D. (Pennsylvania), Associate Professor: Maternal/child health.  
 MARGARET L. BIRNEY, Ph.D. (Wayne State), Associate Professor: Cardiopulmonary nursing.  
 KATHLEEN BREWER-SMYTH, Ph.D. (Pennsylvania), Assistant Professor: Medical-surgical nursing.  
 LINDA BUCHER, D.N.Sc. (Widener), Associate Professor: Medical-surgical nursing, critical care.  
 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.  
 CYNTHIA DIEFENBECK, M.S.N. (Pennsylvania), Instructor: Psychiatric nursing.  
 PATRICIA DRAKE, M.S.N. (Delaware), Instructor: Maternal/child health.  
 SANDRA ELLIOTT, M.S.N. (Pennsylvania), Instructor: Women's health nurse practitioner.  
 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.  
 JUDITH W. HERRMAN, Ph.D.(c). (Delaware), Instructor: Maternal/child health.  
 AMY JOHNSON, D.N.Sc. (Catholic), Assistant Professor: Nursing of children.  
 PAULA R. KLEMM, D.N.Sc. (Catholic University of America), Associate Professor: Oncology.  
 MADELINE LAMBRECHT, Ed.D. (Temple), Professor; also Director, Division of Special Programs: Psychiatric and mental health nursing.  
 SUSAN J. LOEB, Ph.D. (Penn State), Assistant Professor: Community health.  
 KAREN MASTRIPOLO, M.S.N. (West Chester), Instructor: Community health.  
 LISA MCBETH-SNYDER, M.S.N. (California), Instructor: Maternal/child health.  
 CAROL KERRIGAN 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.  
 CAROLEE POLEK, Ph.D. (Temple), Assistant Professor: Medical-surgical nursing.  
 ALLEN PRETTYMAN, M.S.N. (Wilmington), Instructor: Family nurse practitioner.  
 INGRID PRETZER-ABOFF, M.A. (NYU), Instructor: Medical-surgical nursing.

LARRY PURNELL, Ph.D. (Columbia Pacific), Professor: Health services administration, transcultural health care.  
 JEAN E. RAYMOND, M.S. (Delaware), Instructor: Gerontology.  
 CHRISTINE REILLY, Ph.D. (California School of Professional Psychology), Associate Professor: Psychiatric nursing.  
 KATHLEEN RILEY-LAWLESS, Ph.D. (Pennsylvania), Assistant Professor: Pediatric 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.  
 GAIL H. WADE, D.N.Sc. (Widener), Associate Professor: Maternal/child health.  
 JULIE K. WATERHOUSE, Ph.D. (Delaware), Associate Professor: Medical-surgical nursing.  
 CATHERINE WELDE, M.S.N. (Delaware), Instructor: Medical-surgical nursing.  
 ERLINDA WHEELER, D.N.S. (SUNY), Associate Professor: Medical-surgical nursing.  
 DEBORAH WILSON, Ph.D. (Louisiana), Assistant Professor: Psychiatric nursing.

#### DIVISION OF SPECIAL PROGRAMS

MADELINE LAMBRECHT, Ed.D. (Temple), Director; also Professor of Nursing.  
 KEN ANUNDA, M.A. (State University of New York), CITA I.  
 KAREN M. AVINO, M.S.N. (Delaware), Instructor: Community health nursing.  
 RICHARD MICUN, B.S.N. (Delaware), Distance Learning Recruiter.  
 DIANE OLIVER, M.P.H., R.D. (Delaware), Instructor: Dietetic Internship Program.  
 ANN RUCINSKI, M.A., R.D. (Immaculata College), Director and Instructor: Dietetic Internship Program.  
 STACY R. WEILE, Ed.M. (Illinois), CITA II.

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### COLLEGE OF HUMAN SERVICES, EDUCATION AND PUBLIC POLICY

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#### OFFICE OF THE DEAN

TIMOTHY K. BARNEKOV, Ph.D. (Syracuse), 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.

JAEHEE JUNG, Ph.D. (Ohio State University), Assistant Professor:  
Social psychological aspects of dress and consumer behavior.

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.

STEPHANIE A. McCLELLAN, Ph.D. (Delaware), Assistant  
Professor: Leadership, organizational behavior and public policy.

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), Professor  
and 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.

GEORGE G. BEAR, Ph.D. (Virginia), Professor; School discipline,  
sociomoral reasoning and behavior, and self-perceptions among  
children with disabilities.

DAWN BERK, M.S. (University of New Hampshire), Instructor:  
Mathematics education.

DAVID BLACKER, Ph.D. (Illinois), Associate Professor:  
Philosophy.

JAN H. BLITS, Ph.D. (New School for Social Research), Professor;  
also Professor, Political Science and International Relations:  
Philosophy and politics of education.

NANCY BRICKHOUSE, Ph.D. (Purdue), Associate Director and  
Professor, Science education.

ALBERT R. CAVALIER, Ph.D. (Alabama), Associate Professor:  
Behavior management, school discipline, assistive technology,  
educational technology, and distance education.

BARBARA CURRY, Ed.D. (Harvard), Professor: Educational  
leadership.

ZOUBEIDA DAGHER, Ph.D. (University of Iowa), Associate  
Professor: Science education.

LAURA DOUGHERTY, B.S. (Radford University), Instructor: The  
College School.

LAURA EISENMAN, Ph.D. (Vanderbilt), Associate Professor:  
Secondary special education and transition from school to adult  
life for young adults with disabilities.

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.

JEANNE GEDDES-KEY, M.Ed. (Smith), Instructor and Emily L.  
Phelps Director of College School.

MARIKA GINSBURG-BLOCK, Ph.D. (University of  
Pennsylvania), Assistant Professor: School psychology.

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.

ROBERTA M. GOLINKOFF, Ph.D. (Cornell), H. Rodney Sharp  
Chair in CHEP and 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.

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.

NANCY C. JORDAN, Ph.D. (Harvard), 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.

RACHEL KARCHMER, Ph.D. (Syracuse University), Assistant  
Professor: Reading and language arts.

LAURA KINCAID, Ph.D. (Kent State University), Assistant  
Professor: Mathematics education.

DEBORAH KNIGHT, Ph.D. (University of Georgia), Assistant  
Professor: Special education.

NANCY LAVIGNE, Ph.D. (McGill University), Assistant Professor:  
Educational Psychology.

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.

DEANNE MCCREDIE, M.I. (University of Delaware), Instructor:  
Student teaching.

JON MANON, M.Ed. (Lehigh University), Instructor.

EUGENE MATUSOV, Ph.D. (California at Santa Cruz), Associate  
Professor: Instruction and Cognition.

SHUAIB MEACHAM, Ph.D. (University of Illinois - Urbana),  
Assistant Professor: Literacy education.

KATHLEEN MINKE, Ph.D. (Indiana) Professor: Birth-to-three  
intervention for children with disabilities and at-risk children.

ANNE MORRIS, Ph.D. (Ohio State University), Associate  
Professor: Mathematics education.

CHRYSTALLA MOUZAS, Ed.D. (Teacher's College, Columbia  
University), Assistant Professor: Instructional technology and  
media 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.

EILEEN O'NEILL, M.Ed. (University of Delaware), Instructor:  
Student teaching.

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

JUDITH PATTON, M.I. (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.

ROSALIE, ROLON-DOW, Ph.D. (Temple), Urban education.

GAIL RYS, Ph.D. (Delaware), Assistant Director and Assistant  
Professor: Moral reasoning, gender and development issues.

PAMELA STAZESKY, Ph.D. (University of Illinois at Urbana-  
Champaign), Assistant Professor.

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.

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.

SHARON WALPOLE, Ph.D. (University of Virginia –  
Charlottesville), Assistant Professor: Literacy.

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

STEPHANIE WOLBERT, M.I. (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.

WENDY BULKOWSKI, M.A. (Delaware), Tutoring Center  
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.

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

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

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

#### ENVIRONMENTAL AND ENERGY 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.

YOUNG-DOO WANG, Ph.D. (Delaware), Professor and Associate  
Director, Center for Energy and Environmental Policy; also  
ENEP Program Director: Energy and environmental policy,  
economic analysis of alternative energy options, econometric  
applications.

PAUL T. DURBIN, Ph.D. (Aquinas Institute of Philosophy),  
Professor, Department of Philosophy, and CEEP Senior Fellow:  
Technology and society, philosophy of science, environmental  
ethics.

LEIGH GLOVER, Ph.D. (Delaware), CEEP Policy Fellow: Climate  
change policy, globalization and governance, postmodern theory  
and environmentalism.

WILLIAM F. RITTER, Ph.D. (Iowa State), Professor, Department of  
Bioresources Engineering and Civil and Environmental  
Engineering, and CEEP Senior Policy Fellow: Watershed  
management, water resource planning, agricultural policy.

YDA SCHREUDER, Ph.D. (Wisconsin), Associate Professor,  
Department of Geography, and CEEP Senior Policy Fellow:  
Global resources, development, and environment, sustainable  
development and growth management.

RICHARD T. SYLVES, Ph.D. (Illinois), Professor, Department of  
Political Science and International Relations, and CEEP Senior  
Policy Fellow: Environmental and energy policy, disaster policy  
and emergency management, public policy analysis, public  
administration.

#### Joint and Adjunct Appointments

ALLEN BARNETT, CESAR CUELLO, J. BARRY  
CULLINGWORTH, STEVEN HEGEDUS, STEVEN M.  
HOFFMAN, JONG-DALL KIM, CECILIA MARTINEZ,  
SUBODH WAGLE.

#### 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.

BRIAN L. MILLER, Ed.D. (University of Massachusetts Amherst), Assistant Professor: Educational technology, lodging operational systems, and learning management systems.

ROBERT R. NELSON, Ph.D. (Delaware), Associate Professor: Tourism development, food production, contracts.

JULIE E. PEROUTKA, B.S., CCM (Delaware), Director of Restaurant Operations. Quantity foods, fine dining and wine education.

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.

### INDIVIDUAL AND FAMILY STUDIES

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

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

JOHN B. BISHOP, Ph.D. (Ohio), 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.

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.

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

RUTH E. FLEURY-STEINER, 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.

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

LAURA A. MORRIS, M.Ed. (Wilmington College), Instructor and Clinical Faculty: Early literacy, educational partnerships.

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

CYNTHIA L. PARIS, Ph.D. (University of Pennsylvania), Assistant Professor: Curriculum, teacher agency.

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

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

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

TARA M. SUTTON, M.S. (University of Delaware), Instructor, Clinical Faculty: Early Childhood, specifically toddler development and inclusion.

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

College Counseling and Student Affairs Practice in Higher Education: CHARLES L. BEALE, TIMOTHY F. BROOKS, JOHN P. BRUNELLE, MARK C. FLEMING, MERRIS A. HOLLINGSWORTH, JONATHAN D. LEWIS, MARILYN S. PRIME, RICHARD S. SHARF, KAREN Y. TSUKADA.

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.), Charles P. Messick Professor of Public Administration; 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; also Director, M.P.A. Program: 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 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 and Director Center for Community Research and Service: 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 Assistant Director for special projects, 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.

EDWARD J. FREEL, M.Ed. (Delaware), Instructor: civic education, learning initiatives, public administration.

RAHEEMAH JABBAR-BEY, M.A. (New Hampshire College), Instructor: Community and economic development planning, organizational capacity building of nonprofits, urban policy analysis.

ERIC D. JACOBSON, M.P.A. (Delaware), Assistant Professor and Assistant Director, Institute for Public Administration: Public economics, health policy, employee compensation and benefits, tourism development and research, analytical methods.

JONATHAN JUSTICE, Ph.D. (Rutgers), Assistant Professor and Associate Policy Scientist, Institute for Public Administration: Public financial management, non-governmental public administration, urban policy and administration.

PAMELA LELAND, Ph.D. (Delaware), Assistant Professor: 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), Associate Professor: Financial management, non-profit management, international comparative public administration.

DENNIS L. LOFTUS, Ed.D. (Temple), Assistant Professor and Program Coordinator, Delaware Academy for School Leadership; also Assistant Professor, School of Education: Vocational education, school leadership, educational reform, organizational management.

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

PETER ROSS, M.A. (Southern Illinois), Assistant Professor and Senior Policy Scientist, Institute for Public Administration: Public administration, state and local governments, financial management.

REBECCA SHEPPARD, M.A. (Delaware), Assistant Professor: 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.

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), Professor; also Director, Environmental and Energy Policy Program: Energy and water conservation policy, economic analysis of alternative energy options, econometric applications.

LELAND WARE, J.D. (Boston College), Louis J. Redding Professor 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 G. WILDER, Ph.D. (Michigan), Professor: Community development policy and organizations, economic development policy and planning, housing problems and policy, race, gender and economic mobility.

ROBERT A. WILSON, Ph.D. (Temple), Associate Professor; also Associate Professor, Sociology: Survey research, evaluation research, health services research.

DANILO YANICH, Ph.D. (Delaware), 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: 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, RICHARD T. SYLVES.  
 Adjunct Faculty: JOHN ELSE, LINDA WOLF, BEVERLY YANICH.

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### COLLEGE OF MARINE STUDIES

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CAROLYN A. THOROUGHGOOD, Ph.D. (Maryland), Associate Professor and Dean; also Director, Delaware Sea Grant College Program.

DAVID L. KIRCHMAN, Ph.D. (Harvard), Associate Dean and M.P. and M.H. Harrington Professor: Marine microbial ecology; oceanography, molecular ecology.

LEE G. ANDERSON, Ph.D. (Washington), Professor and Director, Marine Policy Program; also Professor, Economics: Economics of commercial and recreations fisheries management.

MOHSEN BADIEY, Ph.D. (Miami), 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: Paleoceanography, 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.
- PAMELA GREEN, Ph.D. (SUNY), Professor; also Crawford H. Greenwalt Chair: Genetics, biochemistry, and molecular biology of plants focusing on Arabidopsis.
- THOMAS E. HANSON, Ph.D. (California, Davis), Assistant Professor; Microbial physiology, microbial ecology, genomics, proteomics.
- 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.
- 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.
- A.D. KIRWAN, JR., Ph.D. (Texas A&M), Professor; also Mary A.S. Lighthite 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.
- NANCY M. TARGETT, Ph.D. (Maine), Professor: Chemical/biological interactions in the marine environment; chemical ecology; antifouling mechanisms in marine organisms.
- TIMOTHY E. TARGETT, Ph.D. (Maine), Professor: Chemical/biological interactions in the marine environment, antifouling mechanisms in marine organisms; chemical ecology.
- 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.
- 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,  
DOMINIC M. DITORO, 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

Geology: JOHN A. MADSEN, RONALD E. MARTIN, JOHN F. WEHMILLER.  
 Plant and Soil Sciences: DONALD L. SPARKS, ERIC WOMMACK.  
 Political Science and International Relations: MATTHEW J. HOFFMAN, MARIAN L. PALLEY, RICHARD T. SYLVES.  
 School of Education: Christopher M. Clark  
 University Parallel Program: LAWRENCE A. CURTIS.  
 Urban Affairs and Public Policy: JOHN M. BYRNE.  
 Adjunct Faculty: JED BROWN, RICHARD B. COFFIN, JAMES CREASE, ROBERT A. DALRYMPLE, ROBERT G. DEAN, ROBERT FELDMAN, MARILYN L. FOGEL, PAUL A. GRECAY, THOMAS E. HELSER, DAVID R. HODAS, NORDEN E. HUANG, DAVID E. KRANTZ, TIMOTHY D. JICKELLS, EVELYN M. MAURMEYER, WILLIAM H. MEREDITH, DONALD B. NUZZIO, JAMES C. PIERCE, ANDREW C. POJE, ANTHONY P. PRATT, ANGELIKA INGRID RATSEP, DAVID T. RICKARD, MANMOHAN SARIN, ALAIN J. VERON, AMY WITTER

WILLIAM W. BOYER, JR., Ph.D. (Wisconsin), Charles P. Messick  
 Professor Emeritus of Political Science and International Relations.  
 THEODORE E.D. BRAUN, Ph.D. (California, Berkeley), Professor Emeritus of Foreign Languages and Literatures.  
 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.  
 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.  
 JAMES C. CURTIS, Ph.D. (Northwestern), Professor Emeritus of History.  
 ROBERT A. DALRYMPLE, P.E., Ph.D. (Florida), Edward C. Davis Professor Emeritus of Civil and Environmental Engineering.  
 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.  
 DON DENNIS, Ph.D. (Brandeis), Professor Emeritus of Chemistry and Biochemistry.  
 FRANK B. DILLEY, Ph.D. (Columbia), Professor Emeritus of Philosophy.  
 ALEXANDER R. DOBERENZ, Ph.D. (Arizona), Professor Emeritus of Nutrition and Dietetics.  
 IVO DOMINGUEZ, Ph.D. (Florida State), Associate Professor Emeritus of Foreign Languages and Literatures.  
 CHARLES W. DUNHAM, Ph.D. (Michigan State), Professor Emeritus of Plant and Soil Sciences.

## FACULTY EMERITI

MARGARET P. ALLEN, M.F.A. (Washington), Associate Professor Emerita of Art.  
 DAVID F. ALLMENDINGER, JR., Ph.D. (Wisconsin), Professor Emeritus of History.  
 LOUIS A. ARENA, Ph.D. (Georgetown), Professor Emeritus of Linguistics.  
 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.  
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