

**MICHAEL A. REITER, Ph.D.**  
**Department of Agriculture and Natural Resources**  
**Delaware State University**  
**1200 N. DuPont Highway**  
**Dover, DE 19901-2277**

mreiter@desu.edu  
<http://cars.desu.edu/faculty/mreiter/>

Voice: 302.857.6412  
Fax: 302.857.6455

Degrees

Ph.D. Environmental Sciences (Ecology), 1988: The University of Virginia, Charlottesville  
(secondary fields: surficial hydrology and microclimatology).

MS Biology (Ecology), 1983: Kent State University, Kent, OH.

BS Biology, 1981: Muskingum College, New Concord, Ohio. Magna cum Laude, With  
Distinction in Biology (computer science and speech/communications minors,  
environmental science bridge program).

Positions

Associate Professor (2000-present, tenured April 2005), Department of Agriculture and Natural  
Resources, Delaware State University, Dover, DE 19901-2277. Director of the Graduate  
Program (2002-2004).

Courses: 23504 - Population Biology  
29191 and 29192 - University Seminar, AGNR  
29572 - Graduate Seminar  
30103 - Intro. Environ. Sci. (Natural Resources Program's Foundation Course)  
30202 - Microclimatology  
30313 - Limnology  
30403 - Wildlife Management  
30451 - Ecosystems (Natural Resources Program's interdisc. Capstone Course)  
30452 - Environmental Education Workshop  
30456/23644 - Wetlands Biology (ug/grad; taught on-site at Delaware NERR)  
30465/23643 - Marine Biology (ug/grad; taught on-site at Delaware NERR)  
30466 - Environmental Toxicology/Risk Assessment  
30475 - Environmental and Wildlife Law  
30502 - Habitat Management and Restoration: Theory  
30504 - Environmental Modeling  
48560 - Civilization and Environment (Honors Colloquium)

48560 - Environment and People (Honors Colloquium)

Lecturer (1997-1999); Visiting Lecturer (1995-1996); Biology Department, Indiana University-Purdue University Columbus, Columbus, IN 47203.

Courses: BIOL K101 - Concepts of Biology I - Plants  
BIOL K295 - Independent Research (Resource Management; Brown County State Park)  
BIOL K341/342 - Principles of Ecology (separate lecture and lab courses)  
BIOL N100 - Contemporary Biology  
BIOL N222 - Civilization and Environment (cross-listed with History)  
BIOL N222 - Field Biology and Resource Management (immersion course at Brown County State Park)  
BIOL N222 - Pond Ecology (field course at Brown County State Park)  
BIOL N251 - Introduction to Microbiology  
SPEA E162 - Environment and People

Instructor, Adjunct (1993-1994), Biology Department, Daytona Beach Community College West, DeLand, FL.

Courses: 1005 - Survey of Biological Science  
1033 - Biological Thought: Issues and Implications

Adjunct Professor Education Department (1994); Biology Department (1990-1991); Stetson University, DeLand, FL.

Courses: EN 198-02 - The Biological Revolution and Human Culture  
BY 151 - Human from Cell to Organism  
BY 152 - Environmental Science and Biology

Instructor (1991-1993), Biology Department, Seminole Community College, Sanford, FL.

Courses: BSC 1010C - General Biology  
APB 1120 - Biology and the Environment (with field component)  
APB 1150 - Concepts of Biology  
BOT 2010C - General Botany

Instructor (1989-1990), Biology Department, Pima College West, Tucson, AZ.

Courses: 100 - Biological Principles  
184 - Plant Biology  
Also supervised operation of campus greenhouse.

Other Experience

Research Associate (Post-doctoral) 1989-1990, Dept. of Ecology and Evolutionary Biology, U. Arizona, Tucson. Lab: Dr. Robert Hoshaw.

Research Associate (Post-doctoral) 1988-1989, Dept. of Environmental Sciences, U. Virginia, Charlottesville. Lab: Dr. John Sigmon.

Research Assistant 1986-1988, Dept. Environmental Sciences, U. Virginia, Charlottesville. Lab: Dr. John Sigmon.

Teaching Assistant 1983-1986, Dept. Environmental Sciences and Dept. Biology, U. Virginia, Charlottesville. Courses:

BIOL 101N - Concepts in Biology	BIOL 102N - Implications of Biology
EVSC 115N - Envir. Biology/Ecology	BIOL 203 - Intro. to Biology I Lab
EVSC 320L - Fund. of Ecology Lab	EVEC 521 - Aquatic Ecology

Teaching Assistant 1981-1983, Dept. Biological Sciences, Kent State University, Kent, Ohio. Courses:

10181 - Biological Principles I	10182 - Biological Principles II
20021 - Basic Microbiology	30360 - General Ecology
40162 - Aquatic Biology/Ecology	50269/70269 - Biology of the Algae

Computer Programmer 1980-1981, Computer Center, Muskingum College, New Concord, Ohio.

Publications (For published abstracts, see Professional Presentations)

Reiter, M. A., G. R. Parsons, R. W. Scarborough, C. Fan, and S. M. Thur. An interdisciplinary conceptual metamodel for the St. Jones River watershed, Delaware: Development, results, and implications. Accepted for a special issue of Urban Ecosystems (by invitation).

Reiter, M. A. 2004. A simple fuzzy logic approach to analyze integrated interdisciplinary “four-component” conceptual resource management models. *Interdisc. Environ. Rev.* 6(2):1-13.

Reiter, M. A. 2004. An interdisciplinary “four-component” modeling methodology for resource management: Design and application (condensed version). In: Khanbilvardi, R. and S. Merchant, eds. *Research & Education Advancements in Oceanic and Atmospheric Sciences*. CREST Publication Series 02-2004:74-77, City University of New York, NY.

Reiter, M. A. and G. R. Parsons. 2004. An integrated interdisciplinary “four-component” modeling methodology for resource management (condensed version). In: *Proceedings of the 7<sup>th</sup> International Marine Environmental Modeling Seminar*, Washington DC.

Reiter, M. A. 2001. Colonization time and substratum relief as factors in the uptake of algae from the water column. *J. Freshwater Ecol.* 16(1):57-65.

- Strickland, C. C., M. A. Reiter, and K. D. Reiter. 2001. Historic roots of the management issues at Trap Pond State Park. *Interdisc. Environ. Rev.* 3(2):1-9.
- Reiter, M. A., J. P. Eagleman, and J. Luckenbaugh. 2000. The design and value of service learning partnerships in state parks. *George Wright Forum* 17(3):47-54 (by invitation).
- Reiter, M. A. and J. P. Eagleman. 1999. The development of a resource management strategy: Deer, plants, and data at Brown County State Park, Indiana. *Interdisc. Environ. Rev.* 1(1):129-140 (by invitation).
- Reiter, M. A. and J. P. Eagleman. 1997. The deer of Brown County State Park, Indiana: Data, emotion, and management. *Proc. Interdisc. Conf. Environ.* 3:256-264.
- Reiter, M. A. 1997. A simple fluorescent labeling technique for the marking of algae in mixed assemblages. *J. Freshwater Ecol.* 12(1):163-165.
- Reiter, K. D. and M. A. Reiter. 1996. Constructing an interdisciplinary course in environmental history. *Proc. Interdisc. Conf. Environ.* 2:259-267.
- Reiter, M. A., P. C. Coggins, and K. D. Reiter. 1995. Incorporating Multidisciplinary Environmental Topics into the Curriculum: A Possible Model. *Proc. Interdisc. Conf. Environ.* 1:256-264.
- Reiter, M. A. 1993. Course-long projects for non-science majors. *Bul. Ecol. Soc. Amer.* 74(1):67-68.
- Reiter, M. A. 1991. Preliminary experiments concerning the potential for hydrodynamic isolation in benthic algal assemblages. *J. Freshwater Ecol.* 6(1):103-106.
- Reiter, M. A. 1989. Development of benthic algal assemblages subjected to differing near-substrate hydrodynamic regimes. *Can. J. Fish. Aquat. Sci.* 46(8):1375-1382.
- Reiter, M. A. 1989. The effect of a developing algal assemblage on the hydrodynamics near substrates of different sizes. *Archiv. Hydrobiol.* 115(2):221-244.
- Gilliam, F. S., J. T. Sigmon, M. A. Reiter, and D. O. Krovetz. 1989. Elevational and spatial variation in daytime ozone concentrations in the Virginia Blue Ridge Mountains: Implications for forest exposure. *Can. J. For. Res.* 19(4):422-426.
- Krovetz, D. O., J. T. Sigmon, M. A. Reiter, and L. H. Lessard. 1989. An automated system for air sampling with annular denuder systems at a remote site. *Environ. Pollut.* 58:97-107.

- Reiter, M. A. 1988. The Relationship Between the Development of Benthic Stream Algae and the Hydrodynamics Associated with Rough Substrates. Ph.D. Dissertation, University of Virginia, Charlottesville.
- Krovetz, D. O., M. A. Reiter, and J. T. Sigmon. 1988. An inexpensive thermocouple probe-amplifier and its response to rapid temperature fluctuations in a mountain forest. *J. Atmos. Oceanic Technol.* 5(6):870-874.
- Krovetz, D. O., M. A. Reiter, J. T. Sigmon, and F. S. Gilliam. 1988. Assembly and field testing of a ground-based presence-of-cloud detector. *J. Atmos. Oceanic Technol.* 5(4):579-581.
- Reiter, M. A. 1987. The Dilemma of the Triangular Point Type. *Ohio Archaeologist* 37(2):15.
- Reiter, M. A. 1986. Interactions between the hydrodynamics of flowing water and the development of a benthic algal community. *J. Freshwater Ecol.* 3(4):511-517.
- Reiter, M. A. and R. E. Carlson. 1986. Current velocity in streams and the composition of benthic algal mats. *Can. J. Fish. Aquat. Sci.* 43(6):1156-1162.
- Reiter, M. A. 1983. Interactions Between Local Current Velocity and Benthic Algal Mat Growth. Master's Thesis, Kent State University, Kent, Ohio.

Presentations (\* *abstract published*)

By invitation

- Puebla, Mexico 2005. 2<sup>nd</sup> Annual Conference of Interdisciplinary Environmental Programs in Mexico: “Designing Interdisciplinary Environmental Programs: Integrating the Disciplinary with the Interdisciplinary” and “Experiences and Challenges with the Design of a Scholarly Interdisciplinary Environmental Journal”. Keynote Presentation and Workshops.
- \*Norfolk, VA 2005. 18<sup>th</sup> Biennial Conference of the Estuarine Research Federation: “Designing interdisciplinary environmental programs: Integrating the disciplinary with the interdisciplinary”. Presentation and Panel Discussion.
- \*Newark, DE. 2005 Delaware Estuary Science Conference: “An interdisciplinary “four-component” modeling methodology for resource management: Design and application.
- \*London, England 2003. 9<sup>th</sup> International Interdisciplinary Conference on the Environment: “Four-tier conceptual modeling for integrated resource management”. Presentation and Workshop.

Dover, Delaware 2003. Delaware State University, Department of Agriculture and Natural Resources Spring Seminar Series: "An interdisciplinary conceptual metamodel for the St. Jones River watershed, Delaware: Development, results, and implications".

\*Toronto, Canada 2002. 8<sup>th</sup> International Interdisciplinary Conference on the Environment. "Environmental Education Workshop 1: The use of CMEA as a tool for interdisciplinary environmental risk assessment" and "Environmental Education Workshop 2: Teaching environmental education using UNESCO UNEP modules".

Dover, Delaware 2002. USDA Eastern Regional Microbial Food Safety Symposium: "Creating a conceptual model for environmental assessment and management of the lower St. Jones River".

Dover, Delaware 2002. Delaware National Estuarine Research Reserve Seminar Series: "The Environmental Cooperative Science Center (ECSC): Regional studies in the sustainable management of coastal and marine habitats for decision making".

Melbourne, Australia 2001. Victoria University of Technology, Visiting Professor. "Finance meets management in state parks: Shifting responsibility from the public to the private sector".

Cairo, Egypt 2000. Ain Shams University, Visiting Professor. "Designing reclamation and conversion programs: The lessons to be learned from resource management".

Indianapolis, Indiana 1998. 2<sup>nd</sup> Annual Environmental Science and Engineering Symposium: "The Brown County Program: IUPUC and IDNR in cooperation for service learning".

Columbus, Indiana 1998. IUPUC Faculty Colloquium Series: "Where science meets society: Environmental problems in Ukraine today and in the United States Tomorrow".

\*Dniepropetrovsk, Ukraine 1997. NATO Advanced Research Workshop on Conversion and Ecology, Priority Area on Environmental Security: "Designing reclamation and conversion programs: The lessons to be learned from resource management". Also moderator of roundtable on Environmental Education.

Columbus, Indiana 1997. IUPUC Brown Bag Lecture Series: "Little critters - big problems".

Columbus, Indiana 1995. Indiana University-Purdue University Columbus Colloquium Series: "Managing the details".

DeLand, Florida 1994. 3rd Annual Stetson University Multicultural Institute: "The Biological Revolution and human culture".

Georgetown, South Carolina 1993. 15<sup>th</sup> Southeastern Phycological Colloquy: "The infiltration of algae into benthic assemblages of different ages".

Sanford, Florida 1993. Honors Seminar Series of Seminole Community College: "Cultural pragmatism: Balancing technological impact and environmental impact".

DeLand, Florida 1993. 2nd Annual Stetson University Multicultural Institute, Symposium/Workshop: "Why study the global environment?".

\*Guelph, Ontario, Canada 1989. 37<sup>th</sup> Annual Meeting of the North American Benthological Society, presentation for the special symposium, "Flow hydrodynamics: What can you do with them?": "The influence of benthic algal growth on the hydrodynamic environment near substrates of different sizes".

Louisville, Kentucky 1988. Colloquium on Periphyton: Informal presentation of recent and future research.

#### Contributed / Other

\*New Orleans, LA 2005. NOAA CSC Coastal Zone '05: "Monitoring Development Impacts Affecting the Delaware National Estuarine Research Reserve". R. Scarborough, M. Mensinger, B. Wilson, A. Mundel, V. Klemas, D. Leathers, D. Legates, J. Madsen, W. Ritter.

\*Orlando, FL 2005. 11<sup>th</sup> International Interdisciplinary Conference on the Environment: "Integrating Conceptual Modeling into a Strategy for Integrated Assessment of Environmental Issues". J. Gentile, J. Barko.

\*Philadelphia, PA 2005. George Wright Society 2005 Conference: "The Use and Analysis of Integrated Interdisciplinary 'Four-Component' Resource Management Models for Resource Management", Workshop.

\*New York City, NY 2004. NOAA-EPP Forum 2004: "An Interdisciplinary "Four-Component" Modeling Methodology for Resource Management: Design and Application".

\*New York City, NY 2004. NOAA-EPP Forum 2004: "An evaluation of surgical closure techniques for long-term retention of telemetry transmitters in American eels (*Anguilla rostrata*)". J. Thomas, D. Fox, and G. Lewbart.

\*New York City, NY 2004. NOAA-EPP Forum 2004: "Essential Fish habitat as determined through freshwater habitat utilization patterns of American Eels (*Anguilla rostrata*) in the St. Jones River, Delaware". J. Thomas and D. Fox.

- \*New York City, NY 2004. NOAA-EPP Forum 2004: “The St. Jones river watershed monitoring network”. N. Munyei, A. Revis, and S. Hollingsworth.
- \*New York City, NY 2004. NOAA-EPP Forum 2004: “Preserving Biodiversity through State Land Acquisition Programs in Kent County, Delaware”. B. Murray.
- \*New York City, NY 2004. NOAA-EPP Forum 2004: “Using Hyperspectral Remote Sensing to detect the expansion of *Phragmites australis* in the St. Jones River Watershed, Delaware.” C. Fan.
- Wilmington, DE 2004. EPA Watershed Summit on the Delaware: “An Interdisciplinary “Four-Component” Modeling Methodology for Resource Management: Design and Application”.
- \* Washington, DC 2004. 7<sup>th</sup> International Marine Environmental Modeling Seminar: “An Integrated Interdisciplinary ‘Four-Tier’ Modeling Methodology for Resource Management”. With G. Parsons.
- \* Boston, MA 2004. 10th International Interdisciplinary Conference on the Environment: “Using Fuzzy Logic to Analyze Integrated Interdisciplinary ‘Four-Tier’ Resource Management Models”. Paper and Workshop.
- \* Boston, MA 2004. 10th International Interdisciplinary Conference on the Environment: “The International Interaction Initiative (I<sup>3</sup>): Discussions of Environmental and Other International Issues among College Classes in Different Countries”. With K. Reiter.
- \* Salisbury, Maryland 2004. Tidewater Chapter of the American Fisheries Society: “Telemetry as a tool for understanding patterns of movement and habitat utilization in yellow-phase American eels in the St. Jones River, Delaware”. J. Thomas and D. Fox.
- \* Savannah, Georgia 2003. 88<sup>th</sup> Ecological Society of America conference, joint with the International Society of Ecological Modeling: “An interdisciplinary “four-component” modeling methodology for resource management: An example from the St. Jones River watershed, Delaware”. With G. Parsons.
- \* San Francisco, California 2001. 7<sup>th</sup> International Interdisciplinary Conference on the Environment: “The Design and Value of Service Learning Partnerships Between Colleges and Parks”. With J. Eagleman and J. Luckenbaugh.
- \* Denver, Colorado 2001. George Wright Society 11<sup>th</sup> Biennial Conference on Research and Resource Management in Parks and on Public Lands: “The Design and Value of Service Learning Partnerships Between Colleges and Parks”. With J. Eagleman and J. Luckenbaugh (requested by Editor).

- \* Jackson, Mississippi 2001. Expanding Opportunities in Atmospheric and Oceanic Sciences, NOAA: “The Trap Pond Program: A Service Learning Partnership Between Colleges and Parks”. With J. Luckenbaugh.
- \* Montreal, Quebec 2000. 6<sup>th</sup> International Interdisciplinary Conference on the Environment: “Working toward practical efficiency: Privatization efforts in Indiana's state parks”. With A. Askari.
- \* Baltimore, Maryland 1999. 5<sup>th</sup> International Interdisciplinary Conference on the Environment: "The ongoing development of a resource management strategy: Plant and deer populations at Brown County State Park, Indiana". With J. Eagleman.
- \* Asheville, North Carolina 1999. 10<sup>th</sup> Conference on Research and Resource Management in Parks and on Public Lands (George Wright Society): "Quantifying the success of a resource management strategy: Deer, plants, and data at Brown County State Park, Indiana". With J. Eagleman.
- \* Nashville, Indiana 1999. Indiana Chapter of The Wildlife Society, Spring Meeting: "The Brown County Program: Service learning in ecology and interdisciplinary resource management". With J. Eagleman.
- Columbus, Indiana 1999. IUPUC Faculty Development Colloquium, presenter and moderator of roundtable discussion: "Teaching science to non-science students".
- Washington, D.C. 1998. 4<sup>th</sup> International Interdisciplinary Conference on the Environment, Organized Panel Workshop: "Making environmental decisions: The interaction of science and politics".
- New Harmony, Indiana 1998. National Association of Interpretation Region IV Workshop: "The deer of Brown County State Park, Indiana: Data, emotion, and management".
- Columbus, Indiana 1998. IUPUC Brown Bag Lecture Series: "Science, politics, and education: Reflections on the environmental situation of Ukraine and its implications".
- \* Cambridge, Massachusetts 1997. 3<sup>rd</sup> International Interdisciplinary Conference on the Environment, presentation: “The deer of Brown County State Park, Indiana: Data, emotion, and management”.
- \* Cambridge, Massachusetts 1997. 3<sup>rd</sup> International Interdisciplinary Conference on the Environment, directed workshop: “Cross-linking workshop: A technique for beginning interdisciplinary teachers”. With K. Reiter.
- Columbus, Indiana 1996. Indiana University-Purdue University Columbus Teaching Workshop: “Designing Interdisciplinary Courses and Topics”. With K. Reiter.

- \* Newport, Rhode Island 1996. 2<sup>nd</sup> International Interdisciplinary Conference on the Environment, presentation: "Constructing an inter-disciplinary course in environmental history". With K. Reiter.
- \* Boston, Massachusetts 1995. 1<sup>st</sup> International Interdisciplinary Conference on the Environment, directed workshop: "Teaching Multidisciplinary Environmental Science II: Environment, Technology, and Culture". With P. Coggins and K. Reiter.
- \* Orlando, Florida 1994. North American Benthological Society, presentation: "The infiltration success of algae in assemblages of differing age".
- \* Tallahassee, Florida 1994. Florida Academy of Sciences, poster session: "The relative abundance of the genus Terpsinoe in the algal community of Blue Spring Run, Florida". With M. Falcon and P. Berry.
- Sanford, Florida 1994. Educator's Workshop: "Hands-on Approaches to Environmental Science Education". With D. Kaufman and C. Franz.
- St. Petersburg, Florida 1993. Florida Academy of Sciences, poster session: "Environmental factors affecting the distribution of Aphaostracon asthenes in Blue Spring Run, Florida". With M. Purdy.
- St. Petersburg, Florida 1993. Florida Academy of Sciences, poster session: "The effect of substrate stability on the benthic algal assemblage of Blue Spring Run, Florida. With S. Shirazi.
- \* Honolulu, Hawaii 1992. Ecological Society of America, presentation: "Development of algal assemblages in Blue Spring Run, FL, under several different flow regimes".
- \* Orlando, Florida 1992. Florida Academy of Sciences, presentation: "The distribution of the Blue Spring Aphaostracon in Blue Spring Run, FL".
- \* Blacksburg, Virginia 1990. North American Benthological Society, poster session: "Hydrodynamic isolation - Does it exist?"
- \* Boulder, Colorado 1988. American Society of Limnology and Oceanography, presentation for the Special Session, "Stream Ecology - Concepts and Their Evaluation": "Implications of the relationship between the development of benthic algae and the hydrodynamics associated with rough substrates".
- \* Columbus, Ohio 1987. Ecological Society of America, poster session: "Interactions between the development of benthic algal communities and the hydrodynamics associated with rough substrates".

\* Norfolk, Virginia 1987. Virginia Academy of Sciences, presentation: "The effect of substrate roughness upon the development of benthic algal mats in flowing water".

Louisville, Kentucky 1986. Workshop on Problems in Stream and River Ecology, presentation: "Flow responses to the growth of a benthic algal mat".

Charlottesville, Virginia 1986. Envirodays (University of Virginia), presentation: "Microhydraulics and the development of benthic algal mats in streams".

\* Minneapolis, Minnesota 1985. Ecological Society of America, presentation: title as above.

\* East Lansing, Michigan 1983. 3<sup>rd</sup> International Symposium of Microbial Ecology, poster session: "Local current velocities and benthic algal growth".

Kent, Ohio 1983. Ohio Graduate Symposium in Ecology, presentation: "Interactions between local current velocities and benthic algal mat growth".

\* Toledo, Ohio 1983. Ohio Academy of Science Symposium in Ecology, presentation: title as above.

### Teaching Interests

Environmental Science (Interdisciplinary/Transdisciplinary), Ecology (general, aquatic, stream, algal, marine/coastal), Resource Management and Conservation Biology/Ecology, Environmental Biology, Limnology, General Biology, Phycology, Microbiology.

### Directed Research

*Postdocs:* Dr. Zhiming Yang (2005-present)

Dr. Chunlei Fan (2002-2004; Assoc. Professor, Morgan State University)

*M.S. students:* John Martin (2002-present)

Nicholas Munyei (2004-present)

Barbara Murray (2002-present)

Max Saintil (2003-present)

Amber Still (2004-present)

Brendan Brock (graduated 2004)

*Field/Lab Technicians:* Sandra Jacobsen (2002-present)

*Undergraduate Interns:* Janelle Hatcher (2001) Contribution of groundwater to nutrient loading in Trap Pond.

*Undergraduates:* Alicia Revis. Potential Effects of Development on Nutrient Loading in the St. Jones River Watershed

Alicia Revis, Samantha Hollingsworth. Monitoring of Water Quality in the St. Jones River Watershed, DE.

Amber Still, Larry Seeman, George Twyford. The Relationship between Water Chemistry and Discharge Events in the Trap Pond System.

Jai Bowen. Implications of the Nutrient Loading Estimates from the Trap Pond System

Tarraca Jackson. Evidence for a Potential Groundwater/Sediment Effect in Trap Pond

Christine C. Strickland. Historic roots of the management issues at Trap Pond State Park.

Christine Strickland. Historic roots of the management issues at Trap Pond State Park.

Shasta Lynn Sorenson. Shrew abundance and distribution in Brown County State Park: A follow-up study.

Julie Dickerson and Elizabeth Jackson. Potential bacterial contamination of Strahl Creek from the adjacent Horseman's Campground during high-use, low-rainfall conditions.

Ginger Louder. The impact of clearing shore vegetation on amphibian communities in small ponds.

Monica Falcon and Patty Berry. The relative abundance of the genus Terpsinoe in the algal community of Blue Spring Run, Florida.

Mary Purdy. The influence of habitat structure on the distribution of endemic snails in Blue Spring, Florida.

Shahram Shirazi. The influence of substrate stability on algal community composition.

Lynn Murphy and Phil George. Factors affecting the distribution pattern of the Blue Spring Aphaostracon.

Chris Swadley and Jason Melica. Exotic plant species of Blue Spring State Park, Fl.

Bates, Barbara. Distribution of the endemic Blue Springs Aphaostracon in relation to water chemistry and substrate preference.

### Grants

In review, NOAA, \$12,500,000 (DSU \$1,068,460). Project: “Renewal: Center for the regional study of coastal and marine habitats: The development of resources and tools for decision makers”. Co-PI (consortium of nine universities lead by FAMU).

In review, USDA, \$555,564. Project: “Detection of potato leafhopper infestation on alfalfa using remote sensing.” PI, with R. Peiffer and Z. Yang.

Smyrna Research and Conservation Center 2005-2007. SRCC Internal Seed Grant, \$30,000. Project: "Habitat Restoration for Bats at the New Research and Conservation Center, Smyrna, Delaware". Co-PI with K. Vulinec.

In revision, German International Aid Foundation, \$2,545,000. Project: "Water demand and supply management in the Middle East and North Africa: A regional vision." With M. Nasr, K. Reiter, et al.

In prep, USDA, \$100,000. International Study of Agricultural Practices in the Oil Producing Area of the Niger Delta: Remediation and Reclamation of Crude Oil Contaminated Habitats. Co-PI.

In revision, \$202,277. Project: Coupling Hyperspectral Remote Sensing with Field Spectrometry to Monitor Landscape-Scale Eutrophication in the St. Jones River Watershed, Delaware." PI.

NOAA 2004-2006. Extension of New Cooperative Science Centers Consortium Grant #NA17AE1624, \$5,000,000 (DSU: \$450,000 plus additional \$150,000 in 2005; see NOAA 2001-2004).

USDA, 2004-2007. CSREES Evans-Allen Program DELX-0019-03-3, \$319,564. Project: "A Black-Box Nutrient Loading Model for Trap Pond, Delaware: Environmental Monitoring, State Service, and Student Training." PI.

NOAA, 2001-2004. New Cooperative Science Centers Consortium Grant #NA17AE1624, \$7,486,343 (DSU: \$746,050). Project: "Center for the regional study of coastal and marine habitats: The development of resources and tools for decision makers". Co-PI (consortium of six universities lead by FAMU).

USDA, 2001-2004. 1890 Institution Capacity Building Grant #2001-38820-11405, \$178,730 plus \$30,912 match. Project: "Development of a centralized laboratory for the curriculum in natural resources". PD, with W. Daniels.

DSU, 2001. Professional Development Grant, \$1600. Project: "Visiting Professorship in Environmental Resource Management at Victoria University of Technology, Melbourne, Australia." PI

USDA, 2000-2004. 1890 Institution Capacity Building Grant #2000-38820-9518, \$179,237 plus \$30,000 match. Project: "Service-Based Field Experience in Resource Management at Trap Pond State Park". PI.

NSF, 2000-2003. LTER grant program, \$299,959. Project: "The Relative Importance of Organic Material vs. Local Environmental Conditions on Microbial Decomposer Communities: a Cross-Site Comparison", Aaron L. Mills, Linda K. Blum, and other researchers along the Eastern seaboard. Co-I.

Columbus Teachers Network, 1997. CTN Grant, \$1200. Project: "Integration of Molecular Biology Techniques into Introductory General Biology". PI.

Nature Conservancy, 1992. Ordway Foundation Research Grant, \$2700 plus 50% match. Project: "The influence of substrate type on the distribution of *Aphaostracon asthenes* in Blue Spring Run, Florida". PI.

Sigma Xi, 1987. Grant-in-Aid of Research, \$300. Project: "Variations in the development of benthic algal mats in water of different hydrodynamic regimes". PI.

University of Virginia, 1986. Small Grant Award, \$750. Project: "The influence of substrate roughness upon the development of a benthic algal community". PI.

### Awards and Honors

Board of Trustees of Delaware State University, 2006. Citation of Honor for receipt of the National Award for Excellence in College and University Teaching in the Food and Agricultural Sciences.

National Association of State Universities and Land Grant Colleges, and the USDA Cooperative State Research, Education, and Extension Service (Academic Programs Section) 2005. National Award for Excellence in College and University Teaching in the Food and Agricultural Sciences, \$5,000.

Association of Research Directors, Inc, 2005. Nominated for the Morrison-Evans Outstanding Scientist Award.

J. William Fulbright Program, selected 2005. Award to travel to Izhevsk, Russia to offer a short course on Ecosystem Management under a Fulbright in association with Dr. Tatiana Severyukhina: "A Methodological System of Environmental Education at an American University" (trip postponed due to illness).

Mid-Atlantic Region Ecological Observatory (MAREO), 2004. Appointed to the Executive Committee of MAREO, a node of NSF's National Ecological Observatory Network.

Interdisciplinary Environmental Association. Nominated and elected Vice President of the IEA 2004-2005, and President 2005-2007.

Delaware State University, 2004. Winner of the DSU Excellence in Teaching award.

Delaware State University, 2003-present. Elected Chair of the Graduate Council.

Delaware State University, 2003. Winner of the DSU Excellence in Research and Creative Activity award.

J. William Fulbright Foreign Scholarship Board, the Bureau of Education and Cultural Affairs of the Department of State, and the Council for International Exchange of Scholars. 2001-2006. Passed review and approved for five-year candidacy as a Fulbright Senior Specialist in environmental science (designated specializations: ecology/environmental science, interdisciplinary environmental education, resource management, service learning).

St. Jones Reserve Field Station, 2002. Selected as a member of the station's Coastal Training Program Advisory Committee for Environmental Education and Outreach.

Department of Agriculture and Natural Resources, 2002. Selected the Trap Pond Program as an Exemplary Program for the Middle States Association of Colleges and Schools accreditation review of Delaware State University.

St. Jones Reserve Field Station, 2001. Selected as a member of the station's Research Committee.

Melbourne, Australia 2001. Invited as a Visiting Professor to Victoria University of Technology to give a series of seminars.

Cairo, Egypt 2000. Invited as a Visiting Professor to Ain Shams University to give a series of seminars.

Health and Human Services, 2000. Nominated to the research committee for the National HBCU Consortium for Substance Abuse.

George Wright Society, 1999. Invited to submit a second manuscript for a special edition of the journal "Forum" (based upon review of the first manuscript; see 1998) concerning the implementation and benefits of service learning programs in state parks.

Interdisciplinary Environmental Association, 1999. Selected as a member of the Executive Committee of the IEA.

Interdisciplinary Environmental Association, 1999. Outstanding Contribution Award, 5<sup>th</sup> Annual Interdisciplinary Conference on the Environment.

IUPUC, 1999. Nominated for the 1999 IUPU Columbus Full Time Faculty Teaching Award.

Indiana University, 1998. Recipient of the IU Teaching Excellence Recognition Award, \$1500.

Interdisciplinary Environmental Association, 1998. Invited to submit a manuscript for the inaugural edition of the new journal "Interdisciplinary Environmental Review".

Interdisciplinary Environmental Association, 1998. Invited to be an Associate Editor for the new journal, "Interdisciplinary Environmental Review".

George Wright Society, 1998. Invited to submit a manuscript on privatization of concessions at Brown County State Park for a special edition of the journal "Forum".

North Atlantic Treaty Organization, 1997. Invitation to participate as an environmental education specialist in the Advanced Research Workshop on Conversion and Ecology, Dniepropetrovsk, Ukraine (one of three representatives from the United States). Formal presentation, and moderator of the roundtable meeting on environmental education.

Interdisciplinary Environmental Association, 1995. Outstanding Contribution Award for the workshop series, "Teaching Multidisciplinary Environmental Science", presented at the 1st Annual Interdisciplinary Conference on the Environment, Boston.

Anheuser-Busch Foundation, 1994. Merit Citation from the "A Pledge and a Promise" national environmental award competition for the Blue Spring Program.

3<sup>rd</sup> annual Distinguished Scholars Lecture Series, Fort Lauderdale, Florida, 1991. Chosen from a nationwide pool of researchers as an alternate speaker.

1<sup>st</sup> Annual Environmental Science Research Forum, Charlottesville, Virginia, 1986. Award for presentation: travel expenses for Workshop on Problems in Stream and River Ecology, Louisville, KY.

University of Virginia, DuPont University Academic Fellowship, 1985-1986, \$5000.

### Professional Memberships

Interdisciplinary Environmental Association (President; Environmental Education Consultant)  
Ecological Society of America  
George Wright Society  
Union of Concerned Scientists

### Professional Service

- USDA 2006. Entry discussing personal teaching approaches listed on the USDA's website "Teach USDA: Exemplary teaching practices and philosophies from past national and regional teaching award recipients".  
[http://teach-usda.ahnrit.vt.edu/best\\_practice/exemp\\_teach/index.html](http://teach-usda.ahnrit.vt.edu/best_practice/exemp_teach/index.html)
- Journal of Environmental Monitoring and Restoration, 2006. Appointed to the Board of Editors for the journal.
- European Commission Education Program, Joint European Projects (JEP), 2005. Listed as a consultant in water quality issues for the Tempus grant "Water Management Education and Training Capabilities" submitted by Ain Shams University to the European Commission: Directorate-General Education and Culture.
- Appointed to a US Army Corps of Engineers Report Card Workgroup to evaluate water management options for the upper Mississippi River basin, 2005-present. Also selected to deliver workshops to USACE on conceptual modeling for resource management and risk assessment.
- President of the Interdisciplinary Environmental Association (an international organization of environmental academics, practitioners, and interested citizens), 2005-2007; Vice President 2004-2005.
- Appointed to the Executive Committee of the Mid-Atlantic Region Ecological Observatory (MAREO), a node of NSF's National Ecological Observatory Network, 2004-present.
- Invited Chair of session "Integrated Ecological/Social Management of Risks to Coastal Ecosystems", 7<sup>th</sup> International Marine and Environmental Modeling Seminar, Washington DC, 2004.
- Elected Chair of the Graduate Council, Delaware State University, 2003-present.
- Initiated and coordinate the International Interaction Initiative (I<sup>3</sup>), a classroom-based international information exchange program (<http://cars.desu.edu/faculty/mreiter/III.htm>), 2003-present.
- Director of the Graduate Program, Department of Agriculture and Natural Resources, Delaware State University, 2002-2004.
- Appointed editor of a special edition of Interdisciplinary Environmental Review to be based on the conceptual modeling methodology of the Environmental Cooperative Science Center, 2002-present (since transferred to the journal Urban Ecosystems).
- Appointed Chair of Constitution and Bylaws Committee for formulation of official constitution and bylaws for the Interdisciplinary Environmental Association, 2002-present.

- Appointed to the Advisory Committee of Delaware National Estuarine Research Reserve's Coastal Training Program, 2002-present.
- Selected campus representative for The Morris K. Udall Foundation's Udall Scholarship Program, 2002-present.
- Selected to Steering Committee for the Delmarva Corridor project, 2002.
- Participation in NOAA-sponsored conceptual modeling workshops across the eastern U.S., 2001-present.
- Development of brochures, promotional materials, and web sites for the BS and MS degrees in the Natural Resources program (<http://cars.desu.edu/faculty/mreiter/resource.htm>), DSU, 2001-present.
- Resurrection and coordination of departmental Spring Seminar Series, 2001-present.
- Research Board, St. Jones NERR Research Station, Dover, DE, 2001-present.
- Liason and Contact Person for the establishment of a cooperative research and exchange agreement between DSU and Ain Shams University, Cairo, Egypt, 2000-present.
- Faculty Senator for the Agriculture and Natural Resources department, 2000-present.
- Appointed Associate Editor, Interdisciplinary Environmental Review, 1998-present.
- Appointed to the organizing committee, then Executive Committee, of the Interdisciplinary Environmental Association, 1996-present.
- Organized, submitted, and maintain listing for DSU's Natural Resources program in the Directory of Environmental Programs, 2002.
- Committee chair and director of effort to revise DSU's Natural Resources curricula (B.S. programs in Environmental Science, Fisheries Management, and Wildlife Management; minor in Environmental Science; M.S. in Natural Resources). Personally restructured curricula for the major and minor in Environmental Science. Revised curricula approved by college committees and Faculty Senate unanimously, Spring 2002.
- Nominated to the research committee for the National HBC Consortium for Substance Abuse, funded by the Center for Substance Abuse Treatment, Health and Human Services, 2000.
- Manuscript reviews: Interdisciplinary Environmental Review (Associate Editor)  
Environmental Management

Journal of Freshwater Ecology  
Journal of the North American Benthological Society  
Journal of Evolutionary Ecology  
Archive für Hydrobiologie

- Text reviews: West Publishing, Concepts of Biology, MacNeill and Sander
- Proposal reviews: National Science Foundation  
SEEDS Program Special Projects/Faculty Development Grants, ESA
- Consultant lists: Interdisciplinary Environmental Association (Environmental Education)  
American Institute for Biological Sciences (Ecology)
- Arranged symposia: Aaron Ellison (Harvard Forest), Susan Baker (NOAA NCCOS), John Barko (USACE, MS), Michael Weinstein (NJ Sea Grant), Haiqiang Chen (U. Delaware); DSU 2006  
Mamdouh Nasr (Ain Shams U., Cairo Egypt), Betty Ferster (Nature Conservancy, PA), John Luchansky (USDA Wyndmoor Lab, PA), Brent Yarnal (Penn State U.), Yan Jin (U. Delaware); DSU 2005.  
John Schalles (Creighton U.), Mark Harwell (FAMU), Robert Carlson (Kent State U.), George Parsons and Victor Klemas (U. Delaware), Allen Place (Center for Marine Biotech., MD), Dixie Birch (USGS); DSU 2004.  
Kelton Clark (Smithsonian Institution), Gary Matlock, (NOS, NOAA), Aaron Mills (U. Virginia and Kennedy Space Center); DSU 2003  
Linda Blum (U. Virginia), Joan Maloof (Salisbury University); DSU 2002  
Nadine Lymn (director, Office of Public Affairs, ESA), William Keene (U. Virginia), James Eagleman (Indiana DNR); Washington D.C. 1998  
Patrick Coggins (Stetson University); Indiana University-Purdue University Columbus 1996 and Seminole Community College, 1993  
Donald Kaufman (Miami University of Ohio); Seminole Community College, 1994
- Univ. Committees: Graduate Council, 2002-present (Chair 2003-present)  
Faculty Senate, 2000-present  
Promotion/Tenure Appeals, 2006  
DSU Excellence Awards, 2004-2005  
IUPUC Teaching Excellence Recognition Award (Chair), 1999  
Strategic Directions Initiatives, 1995-1996  
Service Learning, 1993  
Interdisciplinary Learning, 1992-93

- Coll./Dept. Comm.: Research Capability Committee (Chair), 2005-present  
 Promotion and Tenure, 2005-present  
 Personnel, 2005-present  
 Graduate, 2002-present (Director 2002-2004)  
 Curriculum, 2001-2002  
 Academic Affairs (chair), 1997-1999  
 Student Affairs, 1995-1997  
 Computer Applications, 1992
- Advisor for DSU Environmental Science majors, 2000-present; DSU Wildlife Management majors, 2000-2001; IUPUC Biology majors, 1995-1999.
- Designed and updated Indiana University-Purdue University Columbus Biology department's "Biopages" web site, 1995-1999.
- Biology Department representative for student recruitment, orientation, and advising programs, 1996-1999.
- Other: Lead effort to arrange for a cooperative agreement between the Department of Agricultural Economics of Ain Shams University, Cairo Egypt and the Department of Agriculture and Natural Resources, DSU, signed Jan. 2005.  
 Organized conceptual modeling workshops to build an integrated social and ecological model of the St. Jones River watershed DE, 2002-2004. Project ongoing.  
 Moderator for session, "Managing Freshwater Ecosystems", 10<sup>th</sup> Conference on Research and Resource Management in Parks and on Public Lands (George Wright Society), 1999.  
 Workshop organizer and director (teaching and applying interdisciplinary environmental science), discussant and session moderator: 2004 (Orlando, FL), 2003 (London, UK), 2002 (Toronto, Ontario), 2001 (San Francisco, CA), 2000 (Montreal, Quebec), 1999 (Baltimore, MD), 1998 (Washington DC), 1997 (Cambridge, MA), 1996 (Newport, RI), and 1995 (Boston, MA) International Interdisciplinary Conference on the Environment. Also organized several related workshops for local faculty and organizations with colleagues from various disciplines, 1990-present.  
 Organized and directed DNERR relationship (service learning student research program and classroom assimilation) 2001-present, Trap Pond Program (service learning student research program and classroom assimilation) 2000-present, Brown County Program (service learning student research program, internships included) 1996-1999, and Blue Spring Program (service learning research) 1992-1994.  
 Help organize and lead off-campus summer and interterm interdisciplinary field courses (1993-present): United Kingdom (ancient and medieval Britain/environmental history), Canadian Rockies (natural history, high-elevation adaptations of plants and animals/human environmental impacts/Canadian history), Dry Tortugas (marine biology/history of piracy).

Organized and directed campus workshops on science education and PowerPoint use for classes and presentations, 1999.

Competition judge, 1997-1999, Indiana State Science Fair; 1992-1995, Florida State Science and Engineering Fair (Senior High Division, Environmental Science and Biology sections).

Arrange with Student Services for stress and test anxiety workshops for students, 1996-1999.

Environmental Science Instructor, Super Saturday program, IN, and SCAMP program, FL (advanced science and math camp for grades 3-5), 1993-1997.

Session moderator (Periphyton: Structural Attributes), field trip organizer (Blue Spring specimen collection), Local Arrangements committee and Post-Conference Field Trips committee, 1994 NABS meetings, Orlando, Florida.

Campus representative to Campus Compact organizational workshop, Brown University, 1993.

Organized and directed Blue Spring State Park service-learning student research program, 1990-1994.

Competition judge, 1990-1992 Volusia County Science Fairs, (5th grade through senior high regionals).

Competition judge, 1989 Piedmont Regional Science Fair, Senior Division.

Local arrangements committee and research judge, 1988 Virginia Academy of Sciences meetings.

## References

The following colleagues are familiar with my work (teaching, research, or both) and are willing to provide recommendations. If desired, you may contact any of them personally:

- Department of Agriculture and Natural Resources, Delaware State University, 1200 N. DuPont Highway, Dover, DE 19901
 

Dr. David Kingsley	(302) 857-6406 dkingsle@desu.edu	Both
Dr. Richard Barczewski	(302) 857-6410 rbarczew@desu.edu	Both
  
- Environmental Science Institute, Science Research Center 308-M, Florida A&M University, 1520 Bronough St., Tallahassee, FL 32307-6600
 

Dr. Mark Harwell	(850) 561-2760 mark.harwell@famu.edu mharwell@ecologicalrisk.com	Research
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- Interdisciplinary Environmental Association, Economics and Foreign Affairs Department, Assumption College, 500 Salisbury Street, Worcester, Massachusetts 01615-0005
 

Dr. Demetri Kantarelis	(508) 767-7557 dkantar@assumption.edu	Both
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- Department of Biological Sciences, Kent State University, Kent, Ohio 44242  
 Dr. Robert Carlson (330) 672-3992 Both  
 rcarlson@kent.edu
  
- Department of Biology, Morgan State University, 1700 E. Cold Spring Lane, Baltimore, MD 21251  
 Dr. Chunlei Fan (443) 885-4468 Both  
 cfan@jewel.morgan.edu
  
- Department of Environmental Sciences, University of Virginia, Charlottesville, Virginia 22903  
 Dr. Aaron Mills (439) 924-0564 Both  
 amills@virginia.edu  
 Aaron.L.Mills@nasa.gov  
 Dr. Linda Blum (439) 924-0560 Both  
 lkb2e@virginia.edu
  
- Department of Education, Stetson University, DeLand, Florida 32720  
 Dr. Patrick Coggins (904) 822-7360 Teaching  
 pcoggins@stetson.edu
  
- Brown County State Park, P.O. Box 608, Nashville, Indiana 47448  
 James Eagleman (812) 988-7185 Both  
 jeagleman@dnr.state.in.us
  
- Indiana University Purdue University Indianapolis, IU School of Medicine, 635 Barnhill Drive, Room 405, Indianapolis, IN 46202-5122  
 Dr. Frank Witzmann (317) 278-5741 Both  
 fwitzman@iupui.edu