

**LENORE PHILIPPA TEDESCO**

Executive Director  
Wetlands Institute  
1075 Stone Harbor Blvd.  
Stone Harbor, NJ 08247  
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(609) 368-1211 (Fax - 3871)

Place of Birth: New York  
Second Language: Spanish

**EDUCATION**

- 1991 Ph.D. Marine Geology and Geophysics, University of Miami, Rosenstiel School of Marine & Atmospheric Science, Coral Gables, Florida.  
1984 B.A. Geology, Boston University, Boston, Massachusetts.

**EMPLOYMENT**

- Executive Director, Wetlands Institute, 2011 -  
Professor, Department of Earth Sciences,  
Indiana/Purdue University at Indianapolis, 2011 – 2011.  
Director, Center for Earth and Environmental Science,  
Indiana/Purdue University at Indianapolis, 1999 – 2011.  
Director, Central Indiana Water Resources Partnership  
Indiana/Purdue University at Indianapolis, 2003 – 2011.  
Associate Professor, Department of Earth Sciences,  
Indiana/Purdue University at Indianapolis, 1997 - 2011.  
Adjunct Associate Professor, School of Informatics,  
Indiana University/Purdue University at Indianapolis, 2004-present.  
Adjunct Associate Professor, School of Education,  
Indiana University at Indianapolis, 2005-present  
Associate Chair, Department of Geology  
Indiana/Purdue University at Indianapolis, 1998 – 2001.  
Visiting Associate Professor, Florida Gulf Coast University, 2001.  
Associate Director, Center for Earth and Environmental Science,  
Indiana/Purdue University at Indianapolis, 1998 – 1999.  
Assistant Professor, Department of Geology,  
Indiana/Purdue University at Indianapolis, 1991-1997.  
Adjunct Faculty, Department of Geological Sciences, University of Miami,  
1995-2003.  
Research Assistant, University of Miami, 1990-1991.  
Research Assistant, University of South Florida, 1984-1985 and 1988-1989.  
Research Assistant, Kansas Geological Survey, 1989.  
Teaching Aide/Inner City Marine Project, Dade County Public Schools,  
1986, 1987 and 1990.  
Teaching Assistant, University of Miami, 1986 -1989.

**RESEARCH INTERESTS**

Water resources; wetland and stream restoration; environmental education; sedimentology.

**SYNERGISTIC ACTIVITIES**

- Director, Center for Earth and Environmental Science and coordinator of interdisciplinary environmental research and education at IUPUI and in the community at large.
- Principal interdisciplinary research coordinator for international research and development program in water resources.
- Principal interdisciplinary research coordinator of urban experimental ecological restoration sites in Indianapolis.
- Program Director, Bachelors of Science in Environmental Science Degree, IUPUI Develop and coordinate elementary, middle and high school environmental science education program (Discovering the Science of the Environment) focused on water quality and ecosystem restoration throughout central Indiana principally at local area school grounds.
- Appointments to Indiana Solid Waste Management Board, Indiana Department of Environmental Management Wetland Science Advisory Group and Nutrient Technical Advisory Group, Natural Resources Conservation Service State Technical Committee, Indiana State Department of Agriculture Technical Advisory Board, Board of Directors Indiana Water Resource Research Center, Board of Directors Science Education Foundation of Indiana, Trustee Laura Hare Charitable Trust, Advisory Board City of Indianapolis Clean Stream Team, Indiana State Water Monitoring Council Board of Directors, Commissioner City of Indianapolis Green Commission.
- Vice-President Upper White River Watershed Alliance and Chair Eagle Creek Watershed Alliance. Past President Upper White River Watershed Alliance.
- Develop and teach professional development workshops for wetland and stream professionals.
- Develop and teach K-12 educator professional development and community workshops for regional participants focused on environmental science and geology content, participation in ongoing Center research, and opportunities for technology utilization with K-12 classes.
- Science advisor to the Veolia Water Technical Advisory Group, Indianapolis Children's Museum, Indiana State Museum, Indianapolis Department of Parks and Recreation, WFYI Public Television, and Town of Fishers.

**PROFESSIONAL AFFILIATIONS**

American Water Resources Association  
 American Society of Limnology and Oceanography  
 North American Association of Environmental Educators  
 International Water Association

North American Lake Management Society  
Society of Wetland Scientists

### **HONORS AND AWARDS**

- 2009 Outstanding Achievement Award for Outstanding Contribution to Indiana's Water Resource Community, Indiana Water Resources Association
- 2008 Howard Michaud Lifetime Achievement Award, Environmental Education Association of Indiana
- 2008 Indiana Water Conservationist of the Year, Indiana Wildlife Federation
- 2007 Nominee, US Professors of the Year Awards Program
- 2006 Trustee's Teaching Award, IUPUI
- 2005 Chancellor's Faculty Award for Civic Engagement, IUPUI
- 2005 Pervasive Technology Labs at Indiana University Fellow
- 2004 Pervasive Technology Labs at Indiana University Fellow
- 2004 Nominee, National Wetlands Award
- 2003 School of Science Service Award, IUPUI
- 2003 IUPUI Outstanding Female Faculty & Staff Leaders Award
- 2003 Woman of Distinction Soroptomist International of Indianapolis
- 2002 Governor's Award for Environmental Excellence: The Lilly Arbor Project
- 2002 Nominee, Brian Douglas Hiltunen Faculty Award for Outstanding Contribution to the Scholarship of Engagement
- 2000 Teaching Excellence Recognition Award, IUPUI
- 1999 Teaching Excellence Recognition Award, IUPUI
- 1998 Teaching Excellence Recognition Award, IUPUI
- 1997 Nominee, Society of Economic Paleontologists and Mineralogists James Lee Wilson Award for Outstanding Young Sedimentologist
- 1996 IUPUI Outstanding Young Faculty Award  
Purdue School of Science Excellence in Teaching Award  
Nominee, Indiana/Purdue University Chancellor's Award for Excellence in Teaching
- 1990 Koczy Fellowship for Outstanding Dissertation Research - University of Miami
- 1989 Geological Society America Research Grant  
Kansas Geological Survey Research Award
- 1988 Gulf Coast Association of Geological Societies Research Award  
Kansas Geological Survey Research Award  
Bader Memorial Student Research Award - University of Miami
- 1985 Texaco Graduate Fellow - University of Miami
- 1984 Graduate Council Fellow - University of South Florida  
Summa Cum Laude - Boston University
- 1983 Case/Melville Scholarship - Boston University

### **STUDENT ADVISORY COMMITTEES**

Ph.D.: A. Smith (chair), D. L. Pascual (University of Michigan), \*J.A. Risi (University of Miami)

M.S.: A. Cowan (chair), \*S. Brouder, \*J. DeLury (Geography), \*J. Johnstone, \*Li, L., \*A. Tilton (chair), \*A. Adamczyk, \*A. Smith, \*A. Gamble, \*M. Stouder (chair), \*B. Simpson (chair), \*A. Campbell (chair), \*A. Robertson, \*J. Bills, \*M. Baller (Geography), \*L. Vallely (Geography), \*L. Wagner, \*B. Sengpiel, \*R. Raftis \*K. Randolph (Geography), \*L. Casey (chair), \*D. Graves (chair), \*A. Smith, \*K. Koy, (chair), \*L. Shrake (chair), \*J. Arthur (chair), \*A. Boettner (chair), \*R.E. Hall (chair), \*M.A. O'Neal (chair), \*T.A. Rickabaugh (chair), \*D. Richardson, \*K. Null, \*K. Bannister (Indiana U.), \*J. Carnahan, \*F.V. Hernly, \*C. Jamet, \*J. Latimer, \*M. McGinnis, \*B. Michaels (U. Miami), \*C. Woodfield

Senior Thesis: \*M. Hine (chair), \*M. Lair (chair), \*A. Egler (Biology, chair), \*T. Niccum (Biology, chair), \*R. Searcy (Biology, chair), \*M. Selig (chair), \*K.K. Laird (chair), \*B. Pace (chair), \*J. Poehler (chair), \*E. Snow (chair), \*C. Willman (chair), \*K. Eck, \*M. Fisherkeller, \*M. Potter

Undergraduate Research: \*B. McNerny (Biology), \*J. Webber (Geography), \*P. Abel, \*S. Deckard, \*L. Jackson, \*T. Liberge, \*N. Kramer, \*B. Pace, \*M. Schmidt, \*L. Scusa, \*C. Willman, \*K. Probst, \*A. Egler (Biology), \*K. Smith (Geography), \*M. Carrel (Anthropology), \*T. Niccum (Biology), \*B. Rismiller (Eng. Tech.), \*R. Searcy (Biology), \*M. Burton (Whitman College), \*C. Kitchen (Whitman College), \*L. Lowery (U. of the South), \*S. Obley (FGCU), \*M. Roth (SUNY Oneonta)

\*Completed

## **COURSES TAUGHT**

*Geology - The Earth's Environment* (Physical Geology - G110), Fall, 1992

*Earth's Environment Laboratory* (G120, G206), Fall, 1992

*Introduction to Oceanography* (G115)

Fall, 1991; Spring, 1992; Spring, 1993; Fall, 1993; Spring, 1994;

Spring, 1995; Spring, 1996; Spring, 1997; Spring, 1998; Spring, 1999; Spring, 2000; Fall, 2000; Fall, 2001; Spring, 2002

*Dinosaurs* (G130), Spring, 1995

*Reefs* (G130), Spring, 1997

*Wetlands* (G130), Spring, 2004; Fall, 2004

*Dinosaurs* (G180), Spring, 1998, Spring, 1999

*Global Environmental Change* (Lecture and Laboratory - G185, G186)

Fall, 1995; Spring, 1996

*Service Learning in Geology* (G199), Summer 2001, Summer 2002, Fall, 2003, Spring,

2004; Summer, 2004, Fall, 2004, Spring, 2005, Fall, 2005, Spring, 2006, Fall, 2006; Spring, 2007, Fall, 2007, Spring, 2008, Fall, 2008, Spring, 2009, Fall, 2009, Spring, 2010, Fall, 2010; Spring, 2011

*Historical Geology* (Lecture and Laboratory - G209) Spring, 1995

*Geologic Mapping and Field Methods* (Field Course - G303)

Fall, 1993; Fall, 1994; Fall, 1995; Fall, 1996; Fall, 1997; Spring, 1999; Fall, 1999; Fall, 2000; Fall, 2001; Fall, 2002; Fall, 2003

*Principles of Sedimentology and Stratigraphy* (Lecture and Laboratory - G334)  
Spring, 1992; Spring, 1993; Fall, 1993; Fall, 1994; Fall, 1995; Fall, 1996; Fall, 1997; Fall, 1998; Fall, 2002; Fall, 2003, Fall, 2005

*Undergraduate Research in Geology* (G410)  
Spring, 1993; Summer, 1995; Spring, 1997; Fall, 1997; Spring, 1998; Spring, 1999; Fall, 1999; Summer, 2000; Fall, 2000; Spring, 2001; Summer, 2002, Summer, 2007; Spring, 2010

*Geology of Modern Carbonate Environments of South Florida* (Field Course - G420)  
Summer, 1992

*Regional Geology Field Course - Montana* (G420), Summer, 1994  
*Regional Geology Field Course - Southern California* (G420), Summer, 1997; Summer, 1999

*Introduction to Carbonates* (G490), Spring, 1996; Spring, 1999; Spring, 2002  
*Wetland Ecosystems* (G490/G431), Fall, 2004; Fall, 2006, Fall, 2008, Fall, 2010  
*Stream Ecosystems and Their Restoration* (G490), Spring, 2006, Fall, 2007, Fall, 2009  
*Senior Thesis in Geology* (G495), Spring, 1995; Spring, 1997; Fall, 1997; Spring, 1998; Fall, 1999; Fall, 2001; Spring, 2004, Fall, 2007

*Keck Undergraduate Research Mentor – SW Florida*, Summer, 1999; Summer, 2001  
*Applied Analytical Techniques* (G545), Spring, 1996  
*Geology Summer Field Course - Western U.S.* (GSC 574), University of Miami, Summer, 1995; Summer, 1997

*Carbonate Sedimentology* (Lecture and Laboratory - G645/G690),  
Spring, 1994; Spring, 1996, Spring, 1999; Spring, 2002  
*SEAM Ecology Summer Institute* (G690) Summer, 2003; Fall, 2003  
*Wetland Ecosystems* (G690), Fall, 2004; Fall, 2006; Fall, 2008; Fall, 2010  
*Topics in Wetland Education* (G690), Spring, 2005  
*Stream Ecosystems and Their Restoration* (G690), Spring, 2006; Fall, 2007, Fall, 2009  
*Tools for Water Quality Education* (G690), Spring, 2007  
*Topics in Restoration Science Education* (G690/E505), Summer, 2007, Summer, 2008, Summer, 2009, Summer, 2010

*Geologic Problems* (G700) Fall, 1994; Fall, 1998; Spring, 2000; Spring, 2001, Spring, 2002; Fall, 2003; Summer, 2004; Fall, 2004; Spring, 2005, Fall, 2005; Fall, 2007; Spring, 2007, Spring, 2008, Fall, 2008, Summer, 2009, Fall, 2010

*Global Change Biology* (K411) Spring, 2004, Spring, 2005, Fall, 2005  
*Biology Undergraduate Research* (K493) Fall, 2000; Spring, 2002, Summer, 2008  
*Biology Senior Thesis* (K494) Spring, 2001; Summer, 2002, Fall, 2008

### **RESEARCH GRANTS** (PI unless noted)

Interim Algae, Taste and Odor, and Algal Toxin Monitoring Program for Indianapolis  
Drinking Water Reservoirs  
Citizens Energy Group  
10/11 – 12/12            \$150,000 (pending)

Development of a Fluvial Erosion Hazard Mitigation Program for Indiana

Indiana Office of Community and Rural Affairs/Housing and Urban Development  
3/11 – 5/13 \$799,873

Algal Ecology and Cyanobacteria Toxicity of Three Eutrophic Drinking Water Supply  
and Recreational Use Reservoirs in Central Indiana  
Veolia Water Indianapolis  
1/10-12/10 \$156,240

Remote Sensing of Global Warming Affected Inland Water Quality: Challenge,  
Opportunity and Solution  
NASA  
With L. Li and M. Babbar-Sebens  
1/10 – 12/10 \$72,525

Eagle Creek Watershed Implementation Project  
EPA 319 Grant Program/ Indiana Department of Environmental Management  
10/09 – 9/12 \$655,375 (\$393,225 grant dollars)

Testing Bio-optical Algorithms for Remote Sensing of Inland Water Quality  
With L. Li and J. Wilson  
NASA  
6/09-5/13 \$569,820

Cyanobacterial Ecology and Toxicology of Central Indiana Reservoirs  
Veolia Water Indianapolis  
1/09-12/09 \$158,982

Performance Analysis of Selected Mitigation Systems Used to Attenuate Diffuse  
Pollution Occurring during Baseflow and High Flow Events from Agricultural  
Fields (Aquisafe 2)  
KompetenzZentrum Wasser Berlin  
Co-PI with P.A Jacinthe and M. Babbar-Sebens  
1/09-12/12 €150,000 (~\$216,200)

A Model to Identify Constructed Wetland Sites to Maximize Nitrate Reduction and Flood  
Mitigation.  
Indiana State Department of Agriculture  
Co-PI with M. Babbar-Sebens  
1/09-1/10 \$38,000

Sustaining Water Resources: Environmental Impacts of Chemical Loadings and  
Transport during Floods  
Indiana University - Bloomington – IUPUI Intercampus Collaboration in  
Environmental Research  
Co-PI with M. Babbar-Sebens and P.A. Jacinthe (IUPUI)  
K. Clay, S. Hall, H. Reynolds, and T. Royer (IUB)

1/09 – 6/10                      \$50,333

Upper White River Watershed Alliance's Watershed Management Planning Project

Co-PI with Empower Results, LLC. and Context, LLC.

Indiana Department of Natural Resources, Lake and River Enhancement Program

1/08-12/09                      \$89,000

Cyanobacterial Ecology and Toxicology of Central Indiana Reservoirs

Veolia Water Indianapolis

1/08-12/08                      \$178,048

Mapping Aquatic Vegetation with Hyperspectral Remote Sensing Imagery

Co-PI with J. Wilson

Indiana Department of Natural Resources, Lake and River Enhancement Program

7/07-9/09                      \$49,995

Mitigation of Contaminants in Rural and Semi-Rural Environments to Protect Surface  
and Groundwater (Aquisafe 07)

KompetenzZentrum Wasser Berlin

Co-PI with Y. Moreau-Le Golvan (KWB); G. Grutzmacher (UBA); and E.

Soyeux (Veolia)

7/07-9/09                      \$265,608

Empirical and Bio-optical Modeling of Hyperspectral Reflectance for Improved Mapping  
of Water Quality Parameters in Central Indiana Reservoirs

Co-PI with L. Li

Veolia Water Indianapolis

4/07-6/08                      \$77,760

Contaminant Transport Dynamics During Storms in Medium to Large River Systems of  
the Midwest

Co-PI with P. Vidon

Veolia Water Indianapolis

4/07-9/08                      \$175,247

Watershed-Scale Evaluation of BMP Effectiveness and Acceptability: Eagle Creek  
Watershed, Indiana

Co-PI with R. Turco, Purdue University

US Department of Agriculture

7/06-7/09                      \$650,000 (\$218,580 to IUPUI)

Quantifying Blue-Green Algae of Central Indiana Reservoirs Using Hyperspectral  
Reflectance

Co-PI with L. Li

Veolia Water Indianapolis

3/06-3/07                      \$147,788

- Developing a Survey Tool for the Rapid Assessment of Blue-green Algae in Central Indiana's Reservoirs  
Indiana Department of Natural Resources, Lake and River Enhancement Program  
with L. Li  
7/05-6/06 \$21,000
- Eagle Creek Watershed Alliance: Phase I Watershed BMP Implementation, Education, and Public Outreach.  
EPA 319 Grant Program/ Indiana Department of Environmental Management  
3/2006-3/2009 \$522,911 (\$343,254 grant dollars to IUPUI)
- Quantifying Blue-Green Algae of Central Indiana Reservoirs Using Hyperspectral Reflectance  
Co-PI with L. Li  
Veolia Water Indianapolis  
2/05-2/06 \$21,789
- RAPID: Remotely Accessible Personal Information Display  
Bridging the Gap between the Field and the Laboratory to Synthesize Environmental Data  
Indiana University Pervasive Technology Labs Fellows Program  
9/04-8/05 \$30,000
- Water Quality and Nutrient Cycling in Indianapolis' Drinking Water Reservoirs and their Watersheds  
Veolia Water Indianapolis  
3/04-3/05 \$57,612
- An Integrated Environmental Monitoring Network and Its Visualization  
Indiana University Pervasive Technology Labs Fellows Program  
12/03-12/04 \$40,674
- The Starling Wetland Restoration Project: A University, Corporate, Community Partnership to Enhance Biodiversity and Expand Nature Studies at Indianapolis' Largest Park  
Efroymsen Fund, USFilter Indianapolis Water LLC., Indianapolis Parks  
5/03-5/04 \$70,395
- Water Quality and Nutrient Cycling in Three Central Indiana Watersheds and Their Reservoirs: Eagle Creek/Eagle Creek Reservoir, Fall Creek/Geist Reservoir and Cicero Creek/Morse Reservoir  
with E.A. Atekwana, G. Filippelli, K. Licht, J. Swope  
US Filter Indianapolis Water / Vivendi;  
12/02-2/04 \$141,365



Sedimentologic and Biogeochemical Characterization of the Eagle Creek Watershed:  
Implications for Nutrient Cycling and Water Quality

With G. Filippelli and E.A. Atekwana  
US Filter Indianapolis Water / Vivendi;  
8/02-12/02           \$38,531

The Lilly ARBOR Project: An Experiment in Urban Riparian Restoration

Eli Lilly Foundation  
4/01-4/06           \$200,000

The White River Riparian Restoration Project

National Fish and Wildlife Federation;  
8/00-8/01           \$9,960

White River Riparian Restoration Project: An Urban Reforestation Program;

IUPUI Office for Professional Development;  
5/00-4/01           \$10,000

Restoring Estuarine Habitat Quality: Effects of Alternative Types of Water Control  
Structures on Freshwater Inflow, the Distribution of Non-Point Source Pollutants,  
and the Dispersal of Non-Indigenous Species;

Florida Coastal Zone Management Program, Federal Coastal Zone Management  
Act Funds  
7/99 – 6/00           \$24,870

Vertical Gradients of Trace Element Concentrations and Accumulation in Four Marginal  
Marine, Estuarine, and Marsh Environments; Rookery Bay NERR and 10,000  
Islands National Wildlife Refuge, Southwest Florida; Rookery Bay National  
Estuarine Research Reserve

9/98-5/98           \$5,000

The Sediment Record as a Monitor of Natural and Anthropogenic Changes in the Lower  
Everglades/Florida Bay Ecosystem: A High Resolution Study;

National Oceanographic & Atmospheric Administration,  
South Florida Ecosystem Restoration Prediction and Modeling Program  
7/97 - 7/00           \$55,200

The Distribution of Trace Elements and Organics in Surficial Sediments of Rookery Bay  
National Estuarine Research Reserve, Southwest Florida: Implications for  
Anthropogenic Contaminant Inputs;

National Oceanographic and Atmospheric Administration  
Sanctuaries and Reserves Division  
7/97-6/98           \$26,674

Lake Sedimentation in the San Geronio Wilderness of Southern California: A Record  
of El Niño Periodicity; IUPUI Outstanding Young Faculty Award

5/96-9/97                      \$10,000

The Sediment Record As A Monitor of Natural and Anthropogenic Changes in the  
Lower Everglades/Florida Bay Ecosystem;  
U.S. Department of Commerce,  
National Oceanographic and Atmospheric Administration  
8/95-8/97                      \$15,000

Post-Hurricane Sediment Redistribution and Benthic Community  
Response and Evolution Within Biscayne Bay, The Coral Reef Platform, and the  
Southwest Florida Coast;  
National Park Service - Everglades National Park/Biscayne National Park  
11/93-11/96                      \$63,579

Differentiating Environments of Ooid Formation Using Grain Characteristics;  
IU/PU Summer Research Fellowship  
6/93-8/93                      \$6,000

Geologic Modification to Coastal and Shallow Marine Environments of South Florida  
Resulting From Hurricane Andrew;  
NSF - Earth Sciences, Geology and Paleontology  
9/92-9/93                      \$8,933

Comparative Analysis of Modern and Ancient Oolitic Sediments: Petrology and  
Depositional Environments;  
IU/PU Summer Research Fellowship  
6/92-8/92                      \$6,000

Comparative Analysis of Modern and Ancient Oolitic Sediments: Petrology and  
Depositional Environments;  
IU/PU Grant-in-Aid for Research  
3/91-12/92                      \$3,000

### **EDUCATION AND TEACHING GRANTS**

Discovering the Science of the Environment  
Co-Pi with L. Li  
NASA  
3/10-7/13                      \$60,000

The GK-12 Urban Educators Program at IUPUI: Teaching and Learning Science through  
Research  
Co-PI with K. Marrs, A. Gavrin, J. Watt, P. Crowell, S. Rhodes  
National Science Foundation  
2/08-2/12                      \$2,993,160

Wetlands Education Workshops

Indiana Department of Environmental Management  
 J.F. New and Associates, Inc.  
 5/08-9/08 \$8,999

Discovering the Science of the Environment  
 Nina Mason Pulliam Charitable Trust  
 7/06-7/08 \$170,000

Discovering the Science of the Environment  
 Veolia Water Indianapolis, Dow AgroSciences, Eli Lilly and Co. Foundation,  
 Duke Energy Foundation, Indianapolis Power & Light, Hoover Family  
 Foundation, Noyes Foundation  
 7/06-12/08 \$345,500

Central Indiana Watershed Enhancement Partnership  
 IUPUI Commitment to Excellence for Civic Engagement Civic Collaborative  
 7/04-6/06 \$60,000

Water Resources Interdisciplinary Civic Partnership  
 IUPUI Commitment to Excellence for Civic Engagement Civic Collaborative  
 9/03-5/04 \$21,000

An Integrated Environmental Monitoring Network  
 IUPUI School of Science Student Technology Fees  
 10/03-12/05 \$56,000

National GIS Day Workshop  
 Central Indiana Community Foundation Library Fund  
 with R. Crumrin  
 12/03-7/04 \$3,060

The Lilly ARBOR Project: An Ecological Field Study Experience  
 Central Indiana Educational Service Center  
 Seam Summer Institute  
 5/03-10/03 \$15,470

An Ecological Field Study Experience  
 Central Indiana Educational Service Center  
 Project Seam Professional Development Workshops  
 3/02-10/02 \$7,350

An Integrated GPS Field Surveying System  
 IUPUI School of Science Student Technology Fees  
 7/02-7/03 \$18,645

Creating a Community of Environmental Service Scholars

Community Service Scholarships, IUPUI Office of Public Service and Leadership  
1/02 – 5/02                      \$2,250

Environmental Service Learning for Undergraduate Service Course  
Community Service Scholarship, IUPUI Office of Public Service and Leadership  
8/01 – 12/01                      \$2,250

Environmental Science Activity Module Development for K-12 Education at the Lilly  
ARBOR Project  
Eli Lilly and Company  
1/01 – 12/01                      \$20,400

Environmental Service Learning at the Lilly ARBOR Site  
Community Service Scholarship, IUPUI Office of Public Service and Leadership  
1/01 – 5/01                      \$2,250

Watershed Health & Coastal Evolution of Southwest Florida  
Keck Consortium Proposal Junior Project Summer 2001  
Keck Geology Consortium and Rookery Bay National Estuarine Research  
Reserve                      Co-Project Director with M. Savarese  
10/00 – 12/01                      \$54,950

Environmental Service Learning in Introductory Geology Classes  
Community Service Scholarship, IUPUI Office of Public Service and Leadership  
8/00 – 12/00                      \$1,500

The Great Coral Reef Adventure  
The Children's Museum of Indianapolis  
7/00 – 6/01                      \$7,674

Incorporating Service Learning into Introductory Oceanography Classes  
Community Service Scholarship, IUPUI Office of Public Service and Leadership  
12/00 – 5/00                      \$1,500

A Field Station for Introductory Geology Laboratories on the White River  
IUPUI School of Science Student Technology Fees  
7/99-7/00                      \$34,520

3-D Data Visualization Laboratory – Unix Cluster  
with Department of Computer and Information Science  
IUPUI School of Science Student Technology Fees  
7/98-7/99                      \$63,500

Field Instrumentation for Advanced Classes and Technologically Advanced Classrooms;  
IUPUI School of Science Student Technology Fees  
7/97-7/98                      \$44,842

Dino Dig: An Interactive Distance Learning Experience;  
 Children's Museum of Indianapolis and Ameritech Corporation  
 11/96-11/97               \$14,400

Use of Internet for Teaching and Course Materials Presentation  
 IUPUI School of Science Student Technology Fees  
 7/96-7/97               \$22,015

Innovative Projects in General Education Planning Grant: Geology/Geography G185  
 Global Environmental Change;  
 with T. Brothers, C. Souch, G. Filippelli  
 6/95-6/96               \$1,000

Building an Undergraduate Geology Student Computing Cluster  
 IUPUI School of Science Student Technology Fees  
 7/93-7/94               \$16,256

### **RESEARCH CONTRACTS**

Monitoring and Analysis of Blue-green Algae in Indiana Lakes and Reservoirs  
 Indiana Department of Environmental Management  
 7/10 – 6/12               \$29,060

Development of Restoration and Mitigation Plans for Streams and Wetlands on  
 Indianapolis Park Properties  
 City of Indianapolis Department of Public Works  
 1/10 – 12/12               \$33,300

Development of Restoration and Mitigation Plans for Streams and Wetlands on  
 Indianapolis Park Properties  
 Indianapolis Parks Foundation, Inc.  
 12/07-12/12               \$13,500 + work package amendments  
 6/09-6/10               Amendment 1 - \$119,460

IUPUI Sustainability Benchmarking and Water Resource Research and Training  
 Veolia Water Indianapolis, LLC.  
 1/08 – 6/09               \$112,447

Development of a Restoration and Management Plan for a Portion of the Scott Starling  
 Nature Sanctuary, Eagle Creek Park, Indianapolis, IN  
 Nature Sanctuary and Center, Inc.  
 10/05-10/06               \$33,250

Indiana Fen Delineation and Hydrologic Assessment Southwestway Park, Marion County  
 Indianapolis Department of Parks and Recreation  
 9/04-12/05               \$14,973

Monitoring Ecological Restoration at Ritchey Woods Natural Area  
 The Children's Museum of Indianapolis  
 1/02-1/03 \$7,000

Monitoring Fine-Scale Changes in Natural Communities: An Evaluation of the Utility of  
 Remote Sensing Technology  
 Indiana Department of Natural Resources, Division of Nature Preserves  
 Co-Project Director with J.S. Wilson  
 10/00 – 9/01 \$2,500

A Proposal to Conduct a Baseline Hydrologic Assessment, Ritchey Woods Watershed  
 Children's Museum of Indianapolis  
 Co-Project Director with E.A. Atekwana  
 2/00-7/00 \$5,600

Dry Tortugas/Fort Jefferson National Monument Submerged Cultural Resources  
 Site Stability Assessment  
 Submerged Cultural Resources Unit - National Park Service  
 8/95-10/97 \$1,200

### **SERVICE GRANTS**

Measurement of Cyanobacterial Toxins in Three Central Indiana Drinking Water  
 Reservoirs  
 Indiana Department of Natural Resources  
 5/08-12/08 \$21,025

Indiana Map Phase 1: GIS Benchmark and Gap Analysis of Local Level Framework Data  
 Indiana Geographic Information Council  
 Co-Project Director with M. Palakal, B.E. Hall  
 12/02-5/03 \$12,000

Map Rectification and Potential Applications of ADAR Multispectral Airborne Imagery  
 City of Indianapolis, Department of Public Works  
 Co-Project Director with J.S. Wilson  
 10/99-8/00 \$26,125

The Center for Earth and Environmental Science  
 Strategic Directions Charter, Indiana University  
 7/99-6/01 \$40,000

Start-up Funding for the Center for Earth and Environmental Science;  
 Strategic Directions Charter, Indiana University  
 Co-Project Director with R.D. Hall  
 7/97-6/99 \$299,496

A Cooperative Program for the Conversion of Spatially Referenced Data for a  
 Geographic Information System Archive; Center for Earth and Environmental  
 Science and IUPUI University Libraries  
 11/96-8/99                      \$ 48,590

Start-up Funding to Implement the Center for Earth and Environmental Sciences;  
 Strategic Directions Initiative Discretionary Funds, Indiana University  
 Co-Project Director with R.D. Hall  
 7/96-6/97                      \$50,000

**PHILANTHROPIC ACTIVITIES AS DIRECTOR OF CEES**

Individual, Corporate and Foundation Gifts (Non-Contract and Grant)

2000	\$ 83,524
2001	\$ 72,560
2002	\$ 76,496
2003	\$108,302
2004	\$108,424
2005	\$ 76,608
2006	\$ 89,733
2007	\$ 126,490
2008	\$ 126,898
2009	\$ 121,119
2010	\$ 145,825
2011	\$ 167,500

**INVITED LECTURES** (115 lectures since coming 1991)

“The Coupled Effects of Climate Change and Modification of Indiana’s Hydrologic Cycle to  
 Water Resources and Flooding”, 2011 River Summit, Ft. Wayne, IN, June, 2011.

“Cyanobacterial Occurrence and Toxicity in Indiana Waters” 2011 River Summit, Ft. Wayne,  
 IN, June, 2011.

“Cyanobacterial Occurrence, Toxicity and Taste and Odor Production in Indianapolis Drinking  
 Water Reservoirs”, Kansas Geological Survey, February, 2011.

“Cyanobacterial Occurrence and Toxicity in Indiana Waters”, Department of Geology, Indiana  
 State University, February, 2011.

“Blue-green Algae in Indiana: A Threat to Our Waterways and the Linkage to Nutrients”, 68<sup>th</sup>  
 Annual Conference of Indiana Soil and Water Conservation Districts, Indianapolis, January,  
 2011.

“Challenge for Sustainable Water Resources in Indiana”, Oregon Seagrant, Corvallis, OR,  
 December, 2010.

“The Coupled Effects of Climate Change and Modification of Indiana’s Hydrologic Cycle to  
 Water Resources and Flooding”, Indiana GIS Conference, Invited Keynote, Indianapolis,  
 November, 2010.

“Climate Induced Changes in Taste and Odor Production and Transported Sources Impacting  
 Indianapolis Drinking Water Supplies”, World Water Congress, Montreal, CA, September,  
 2010.

- “Blue-green Algae: A Threat to Indiana’s Lakes and Streams”, USEPA Regional Source Water Managers Annual Meeting, Indianapolis, September, 2010.
- “Pharmaceuticals in Indiana’s Waters: An Overview”, State of Indiana Legislature, Environmental Quality Service Council, Interim Study Committee, September, 2010.
- “The Coupled Effects of Climate Change and Modification of Indiana’s Hydrologic Cycle to Water Resources and Flooding”, 4<sup>th</sup> Annual HAZUS Conference, Federal Emergency Management Agency, Invited Keynote, Indianapolis, August, 2010.
- “Towards Sustainable Water Resources for Indiana”, Project WET USA Annual Conference, Keynote Address, Indiana Department of Natural Resources, McCormicks Creek State Park, June, 2010.
- “Blue-green Algae: A Threat to Indiana’s Lakes and Streams”, Indiana Wildlife Federation Annual Meeting, Clifty Falls State Park, June, 2010.
- “Microcystin and Taste and Odor Compound Occurrence, Fate and Transport in central Indiana Surface Waters.” 7<sup>th</sup> National Water Monitoring Conference, Denver, CO, April, 2010.
- “Modification of Indiana’s Hydrologic Cycle”, Operation Stay Afloat 2010, Flood Preparedness and All Hazard Mitigation Conference, Keynote Address, Indiana Department of Natural Resources and Indiana Department of Homeland Security, March, 2010.
- “Cyanobacterial Occurrence and Toxicity in Indiana”, Indiana Lake Management Society, Annual Meeting, Merrillville, IN, March, 2010.
- “Cyanobacterial Occurrence and Toxicity in central Indiana Drinking Water Reservoirs with an Assessment of Statewide Occurrence”, Purdue University, Water Community Seminar, West Lafayette, IN, March, 2010.
- “Cyanobacterial Occurrence and Toxicity in central Indiana Drinking Water Reservoirs: Causes and Triggers”, Department of Ocean, Earth, and Atmospheric Science, Old Dominion University, March, 2010.
- “The Quest for Sustainable Water Resources and the Role of Stormwater”, Keep It Clean, Central Indiana Stormwater Workshop, Indianapolis, February, 2010.
- “What We Know, What We Think We Know, and What We Don’t Know: A Water Quality Primer for Central Indiana”, Upper White River Watershed Alliance Annual Meeting, Indianapolis, December, 2009.
- “Assessing Watershed Processes on a Holistic Basis to Evaluate Water Quality in Eagle Creek Watershed”, Eagle Creek Watershed Alliance, Indianapolis, November, 2009.
- “Blue-Green Algae in Indiana: An Emerging Threat and the Need for Statewide Monitoring and a Public Information Plan”, Environmental Quality Service Council, Indiana State Legislature, Indianapolis, October, 2009.
- “Indiana’s Modified Hydrologic Cycle”, Indiana Association of Floodplain and Stormwater Managers Annual Meeting, Keynote Address, Angola, IN, September, 2009.
- “Algal Ecology and Blue-green Algae Toxins in Geist Reservoir”, Geist/Fall Creek Watershed Association Public Meeting, Fishers, May, 2009.
- “Watershed Loading of Nutrients to Geist Reservoir from Fall Creek Watershed: The Role of Storm Transport”, Indiana Department of Environmental Management/Indiana Department of Natural Resources Watershed Assessment Teams, Indianapolis, May 2009.
- “Introduction to Indiana’s Water Resources and Challenges for Sustainable Water Quality”, 2009 Environmental Health Summit, Keynote Address, Indianapolis, May, 2009.
- “Algal Ecology and Blue-green Algae Toxins in Morse Reservoir”, Morse Waterways Association Public Meeting, Cicero, April, 2009.



- “Challenges for Sustaining and Improving Water Resources in Indiana”, IUPUI Women’s History Month, Keynote Address, Indianapolis, March, 2009.
- “Challenges for Sustaining and Improving Water Resources in Indiana”, IUPUI Cutting Edge Lecture Series, Indianapolis, March, 2009.
- “Algal Ecology and Toxicity of Three Central Indiana Water Supply Reservoirs”, Veolia Water Indianapolis, Technical Advisory Group, Indianapolis, March, 2009.
- “The Development of Hyperspectral Remote Sensing Tools for Prediction of Cyanobacteria in Public Drinking Water Supply Reservoirs, Central Indiana, USA and South Australia”, United Water South Australia, Adelaide, Australia, March, 2009.
- “The Development of Hyperspectral Remote Sensing Tools for Prediction of Cyanobacteria in Public Drinking Water Supply Reservoirs, Central Indiana, USA and South Australia”, Melbourne Water, Victoria, Australia, March, 2009.
- “Towards an Understanding of Water Quality in a Mixed Agricultural and Urban Watershed: Eagle Creek Watershed, Indiana”, USEPA Surface Water Monitoring and Standards Meeting, Chicago, February, 2009.
- “A Regional Approach to Improved Water Resource Planning: The Upper White River Watershed Alliance”, Indiana Lake Management Society, Indianapolis, January, 2009.
- “IUPUI Campus Sustainability Initiative”, IU Law Environmental Law Society, Campus Carbon Neutral Workshop, IU School of Law, Indianapolis, January, 2009.
- “Beanblossom Bottoms, A Wetland Gem in Southcentral Indiana”, Amos Butler Audubon Society, Indianapolis, January, 2009.
- “Watershed-Scale Evaluation of BMP Effectiveness and Acceptability: Eagle Creek Watershed, Indiana”, Indiana Association of Soil and Water Conservation Districts Annual Meeting, Indianapolis, January, 2009.
- “Challenges of Monitoring Reservoir Water Quality: the Role of Watershed Inputs”, Indiana Water Monitoring Conference, IDEM and Purdue University, Indianapolis, IN, December, 2008.
- “Discovering the Science of the Environment - Keynote Address”, Environmental Education Association of Indiana, Indianapolis, November, 2008.
- “Challenges for Sustaining and Improving Water Resources in central Indiana”, Indiana University School of Public and Environmental Affairs, Bloomington, IN, November, 2008.
- “Effect of Land Use and Land Use Change on Water Quality”, Indiana Land Use Council, Indianapolis, IN, October, 2008.
- “Blue-green Algae and Algal Toxins in Central Indiana: An Emerging Threat to Water Resources”, Indiana Association for Floodplain and Stormwater Management, Brown County, IN, September, 2008.
- “IUPUI Campus Sustainability Initiative: Opportunities for Enhanced Environmental Stewardship”, Office Max Environmental Sustainability Summit, Indianapolis, August, 2008.
- “Blue-green Algae and Algal Toxins in Central Indiana”, Kosciusko Lakes & Streams and Tippecanoe Watershed Foundation, Warsaw, IN, August, 2008.
- “Blue-green Algae and Algal Toxins in Morse Reservoir”, Morse Waterway’s Association, Noblesville, IN, July, 2008.
- “Blue-green Algae and Algal Toxins in Eagle Creek Reservoir”, Eagle Creek Watershed Alliance, Indianapolis, IN, July, 2008.
- “Blue-green Algae and Algal Toxins in Geist Reservoir”, Senators Gard and Merrit and Representative Bosma Pubic Meeting for Area Residents, Indianapolis, April, 2008.

- “Cyanobacterial Blooms and Algal Toxicity in central Indiana”, City of Indianapolis Board of Waterworks Technical Advisory Group, Indianapolis, April, 2008.
- “Cyanobacteria and Cyanotoxins: 2007 the Summer of Concern in Indiana”, Midwest Aquatic Plant Managers Society, Annual Meeting, Cleveland, March, 2008.
- “Cyanobacteria and Cyanotoxins: An Emerging Issue in Indiana”, Indiana Lake Management Society Annual Meeting, Warsaw, March, 2008.
- “Cyanobacteria and Cyanotoxins: An Emerging Issue in Indiana”, Indiana Association of Soil and Water Conservation Districts, Annual Meeting, Indianapolis, January, 2008.
- “Watershed-Scale Evaluation of BMP Effectiveness and Acceptability: Eagle Creek Watershed, Indiana”, Indiana Association of Soil and Water Conservation Districts, Annual Meeting, Indianapolis, January, 2008.
- “Designing for Water Quality & Quantity Impacts”, Boone County Planning Commission, Zionsville, January, 2008.
- “Planning for Water Quality”, Town of Zionsville, Indiana Planning Commission and Boone County Commissioners, Indianapolis, January, 2008.
- “Blue-green Algae and Their Toxins: The Midwest Experience”, Interagency Working Group – IDEM and IDNR, Indianapolis, September, 2007.
- “The Central Indiana Water Resources Partnership: Working Towards Sustainable Water Resources in Central Indiana for Four Years”, Veolia Water Citizen’s Advisory Group, Indianapolis, August, 2007.
- “Water Resources Research and the Central Indiana Water Resources Partnership”, Veolia Water Technical Direction Annual Meeting, Indianapolis, June, 2007.
- “Towards Sustainable Water Resources for Mixed Agricultural and Urban Watersheds”, Marion County Soil and Water Conservation District Annual Meeting, Indianapolis, February, 2007.
- “Integrating Geologic and Landscape Data to Identify, Preserve, and Restore Midwestern Seep Wetlands”, Soil Science Society of America National Meeting, Indianapolis, October, 2006.
- “Towards Sustainable Water Resources for Central Indiana”, Indianapolis Board of Waterworks and Veolia Water Citizens Advisory Group, Indianapolis, October, 2006.
- “Hydrogeomorphic Setting of Fen Wetlands in the Temperate Glaciated Midwest”, Biological Sciences Seminar Series, Butler University, Indianapolis, September, 2006.
- “The Lilly ARBOR Project: A University/Corporate/Community Collaboration”, Living Laboratories of the Wabash Seminar, West Lafayette, May, 2006.
- “Towards Sustainable Water Resources for Central Indiana: Challenges in Mixed Agricultural and Urban Watersheds”, National Soil Erosion Research Lab, West Lafayette, February, 2006.
- “Towards Sustainable Water Resources for Central Indiana: Water Quality Programs to Restore the Hydrologic Cycle”, Hendricks County Master Naturalists, Avon, February, 2006.
- “Towards Sustainable Water Resources for Central Indiana: Restoring the Hydrologic Cycle”, Indiana Water Resources Association, Indianapolis, January, 2006.
- “Eagle Creek Watershed Management Plan: An Integrated Approach to Improved Water Quality”, Town of Zionsville Town Council, Zionsville, December, 2005.
- “Wetland Restoration at the Scott Starling Nature Sanctuary of Eagle Creek Park”, Indiana Native Plant and Wildflower Society, 12<sup>th</sup> Annual Conference, Indianapolis, November, 2005.
- “Towards Sustainable Water Resources in Central Indiana: Wetland and Riparian Restoration”, Scientech Club, Indianapolis, September, 2005.

- “Towards Sustainable Water Resources for Mixed Agricultural and Urban Landscapes”, Workshop on Sustainable Approaches in Water Management, Urban Planning, and Effective and Renewable Energy Uses, Indianapolis, September, 2005.
- “Towards Sustainable Water Resources for Central Indiana: University Corporate Partnerships for Long-term Research”, Use of Long-term Data to Improve Water Resources in the Great Lakes Region Workshop, Indianapolis, September, 2005.
- “Water Quality and Water Resources in Central Indiana”, Hendricks County Master Naturalists, Indianapolis, August, 2005.
- “Towards Sustainable Water Resources for Central Indiana”, City of Indianapolis Board of Waterworks, Indianapolis, July, 2005.
- “Restoration of Groundwater Wetlands: The Starling Nature Sanctuary”, Indianapolis Master Gardeners, Indianapolis, June, 2005.
- “Water Quality and Water Resources in Central Indiana”, Hamilton County Master Naturalists, Indianapolis, April, 2005.
- “Moving Towards Sustainable Water Resources: The Lilly ARBOR Project, Experimental Design for Restoring Riverbanks”, Central Indiana Technical and Environmental Societies 34<sup>th</sup> Annual Environmental Symposium, Indianapolis, April, 2005.
- “The Starling Wetland Restoration Project: University/Corporate/Community Partnership for Watershed and Water Quality Awareness”, IP – Ft. Wayne, Ft. Wayne, April, 2005.
- “Towards Sustainable Water Resources for Central Indiana; Watershed Management and Wetland Restoration”, IU Center for Aging Research, Indianapolis, February, 2005.
- “Restoration of a Rare, Groundwater-fed Wetland at the Starling Nature Sanctuary of Eagle Creek Park”, Amos W. Butler Audubon Society, Indianapolis, January, 2005.
- “The Central Indiana Water Resources Partnership”, Watershed and Water Quality Workshop, Berlin Centre of Competence, Berlin, November, 2004.
- “Central Indiana Water Resources: Challenges and Limitations”, Indiana’s Groundwater Resources: What We Know, What We Need to Know, 49<sup>th</sup> Annual Midwest Ground Water Conference, Bloomington, October, 2004.
- “Ritchey Woods Nature Preserve: Ecological Restoration Projects in a Rapidly Urbanizing Watershed”, Department of Geography, Indiana University, Bloomington, September, 2004.
- “A Master Plan for the Upper White River Watershed Alliance”, Upper White River Watershed Alliance Quarterly Membership Meeting, Franklin, IN, June, 2004.
- “The Lilly ARBOR Project: An Experiment in Urban Riparian Restoration”, Earth Day Celebration, Eli Lilly and Co., Indianapolis, April, 2004.
- “An Integrated Environmental Monitoring Network and Its Visualization”, Indiana University ILight 2004 Symposium, Indianapolis, March, 2004.
- “The Central Indiana Water Resources Partnership: Watershed-based Research for Improving Water Quality in Central Indiana”, Indiana Geologists, Indianapolis, March, 2004.
- “The Lilly ARBOR Project: An Experiment in Urban Riparian Restoration”, Department of Earth and Environmental Science, University of Illinois, Chicago, February, 2004.
- “Improving Water Quality on Public Lands: A University/Urban Park Partnership”, National Institute on Park and Grounds Management, 33<sup>rd</sup> Annual Meeting, Indianapolis, November, 2003.
- “The Lilly ARBOR Project: An Experiment in Urban Floodplain Restoration, Department of Biological Sciences, Butler University, November, 2003

- “The Starling Fen Restoration Project”, U.S. EPA 6<sup>th</sup> Wetlands Workshop, Atlantic City, NJ, October, 2003.
- “The Lilly ARBOR Project: An Experiment in Urban Riparian Restoration, School of Public and Environmental Affairs, Indiana University, Bloomington, October, 2003.
- “Restoring Urban Stream Corridors”, Soroptorists International of Indianapolis, Indianapolis, January, 2003.
- “The Lilly ARBOR Project: An Experiment in Urban Riparian Restoration”, U.S. EPA 5<sup>th</sup> Wetlands Workshop, Atlantic City, N.J., October, 2002.
- “Wetland Restoration: The Lilly ARBOR Project”, 2002 10<sup>th</sup> Governor’s Conference on the Environment, IDEM/DNR, Indianapolis Government Center, September, 2002.
- “Linking service learning with action research, The Lilly ARBOR Project: An Experiment in Urban Riparian Restoration”, Slippery Rock University, Service Learning Faculty Development Day, September 2002.
- “Using service learning as a research vehicle: The Lilly ARBOR Project at IUPUI”, Slippery Rock University, Service Learning Faculty Development Day, September, 2002.
- “The Lilly ARBOR Project: University-Corporate Collaboration in Riparian Restoration”, Department of Geology Colloquium, IUPUI, April 12, 2002.
- “The Lilly ARBOR Project: An Interdisciplinary Field Classroom for an Urban Waterfront”, with G. Lindsey, School of Public and Environmental Affairs Brown Bag Seminar Series, IUPUI, March, 2002.
- “The Lilly ARBOR Project: An Interdisciplinary Field Research Site for K-12 Educators”, Central Indiana Science Educators Meeting, Indianapolis, February, 2002.
- “Urban Growth and Land Use: A Geological Perspective”, with E.A. Atekwana, R.C. Barr, B.E. Hall, K. Probst, and L. Jackson, Land Use Forum, Governor’s Office, Indianapolis, November, 2001.
- “The Lilly ARBOR Project: University-Corporate Collaboration in Riparian Restoration”, with G. Lindsey, The Practice of Restoring Native Ecosystems National Conference; The National Arbor Day Foundation, Nebraska City, NE, November, 2001.
- “Sea Level Rise and Its Impact on Coastal Environmental Evolution in Southwest Florida”, with M. Savarese and S. Obley, 11<sup>th</sup> Southwest Florida Water Resources Conference, Ft. Myers, FL, November, 2001.
- “An Environmental Assessment of the Ritchey Woods Natural Area”, The Children’s Museum of Indianapolis, Technical Advisory Board for Ritchey Woods, Indianapolis, October, 2001.
- “White River – Restoring Indiana’s River Corridor”, Oasis, Indianapolis, July, 2001
- “Global Climate Change: Fact or Fiction? And Its Affect on the Midwest”, Mid-North Shephard’s Center, Indianapolis, June, 2001.
- “Do Dinosaurs Move in Herds?” Muffin Monday at the IMAX Theater, Indianapolis, October, 2000.
- “A Dinosaur Mass Mortality Site Near the K/T Boundary: Evidence of Herding in Duck Billed Dinosaurs”, Indiana Geologist Monthly Meeting, Indianapolis, June, 2000.
- “The Sedimentology and Geochemistry of Southwest Florida’s Coastal, Estuarine and Wetland Ecosystems”, Restoration Science for the Southern Golden Gate Estates/Ten Thousand Islands, State of Florida, Department of Environmental Protection, Ft. Myers, June, 2000.
- “Global Climate Change: The Past, The Present and a Look to the Future”, 2000 IUPUI/TMMI Department of Mathematics High School Math Contest Keynote Address, May, 2000.

- “Stability of Coastal Wetlands: The Effects of Sea level Rise and Catastrophic Storms”, Department of Geology, Miami University, Ohio, December, 1999.
- “The Effects of Hurricanes and Sea Level on Mangrove Coastlines”, Florida Department of Environmental Protection, Rookery Bay National Estuarine Research Reserve Technical Workshop, Hurricanes and their Impacts on Natural Resources, June, 1999.
- “The Electronic Atlas of Central Indiana”, IUPUI Department of Geography Colloquium Series on Remote Sensing, with D. Lewis, University Libraries and J. Wilson, Department of Geography, January, 1999.
- “Ecosystem Function and the Restoration of the Everglades”, Exploring the Boundaries of Science and Religion, Religious Studies Department, IUPUI, April, 1998.
- “Historical Lessons for South Florida: The Environmental Consequences of Hurricane Andrew”, Southwest Florida Lecture Series, Fort Myers, FL, April, 1998.
- “Sediment Geochemistry of Rookery Bay National Estuarine Research Reserve and a Look at Historical Changes to the Estuary”, Rookery Bay National Estuarine Research Reserve, Naples, FL, April, 1998.
- “A Surface Pollen Zonation of Southwestern Florida Using Multivariate Statistical Methods”, Everglades National Park, South Florida Ecosystem Restoration Program, Paleoecology Workshop, Key Largo, FL, January, 1998.
- “The Role of Catastrophic Storms in the Evolution of Coastal Systems”, Keck Undergraduate Research Consortium, Rookery Bay National Estuarine Research Reserve, Naples, FL, January, 1998.
- “Documenting Professional Development: Dossier Preparation”, IUPUI New Faculty Orientation, Indianapolis, August, 1997.
- “Discover the Center for Earth and Environmental Science at IUPUI”, Hoosier Association of Science Teachers, Indianapolis, February, 1997.
- “Hurricanes and Tropical Marine Ecosystems”, Westlane Middle School, Indianapolis, February, 1997.
- “The Geologic History of San Geronio Mountain from the Ice Ages to the Present”, San Geronio Wilderness Ranger Station, Barton Flats Visitor Center, with A. Barth, San Bernadino, CA, August, 1996.
- “Hurricane Andrew in South Florida: Making Sedimentologic Sense of the Event”, Department of Marine Science, University of South Florida, St. Petersburg, FL, May, 1996.
- “Depositional sequences, paleoenvironmental setting, and preservation potential: Lower Cretaceous Glen Rose Formation, Central Texas”, Dinofest International Symposium, Tempe, AZ, April, 1996.
- “Site Stability, Sedimentology, and Bioturbation”, H.M.S. *Fowey* Site Stabilization Conference, National Park Service, Key Largo, FL, April, 1995.
- “Global Environmental Impacts and the Local Issues: The Role of the Geoscientist” Science Olympiad, School of Science, IUPUI, Indianapolis, IN, April, 1995.
- “Stability of Coastal Wetlands: The Effects of Sealevel Rise and Catastrophic Storms”, Department of Geology, University of Tennessee, Knoxville, TN, February, 1995.
- “Coastal Stability of South Florida in Response to Sealevel Rise and Catastrophic Storms”, Tropical Audubon Society, Miami, FL, March, 1994.
- “Mississippian Oolites and Their Modern Analogs”, Indiana Geologists, Indianapolis, IN, November, 1993.

- “Impact of Hurricane Andrew on Sandy Coastlines and Shallow Marine Banks of South Florida”, Invited Symposium on Large Storms, with H.R. Wanless and L.A. Scusa, Geological Society of America, Southeastern Section Meeting, Tallahassee, FL, March, 1993.
- “Wind transport and damage by Hurricane Andrew”, Invited Symposium on Large Storms, with H.R. Wanless, Geological Society of America, Southeastern Section Meeting, Tallahassee, FL, March, 1993.
- "Coastal Modifications and Hazards in South Florida: A Response to Hurricane Andrew", Ball State University, Department of Geology, Muncie, IN, March, 1993.
- "Geologic Modifications to Shallow Marine, Coastal, and Upland Environments from Hurricane Andrew in South Florida", Wright State University, Geology Colloquium, Dayton, OH, February, 1993.
- "Meteorological Characteristics and Geologic Modifications from Hurricane Andrew in South Florida", Purdue University Seminars in Geology, West Lafayette, IN, January, 1993.
- "Hurricane Andrew in South Florida: The Geological Consequences", Indiana Geologists, Indianapolis, IN, December, 1992.
- "Hurricane Andrew in South Florida: The Geological Consequences", Indiana University Geology Seminars, Bloomington, IN, December, 1992.
- "Hurricane-Generated Erosion and Deposition in the Subtidal Environments of South Florida", with S. Gelsanliter and H.R. Wanless, Symposium on Florida Keys Regional Ecosystem, Miami, FL, November, 1992.
- "Hurricane Modifications to Skeletal Sand and Mud Banks and Associated Biotic Communities, Biscayne Bay, Florida", Symposium on Florida Keys Regional Ecosystem, Miami, FL, November, 1992.
- "Geologic Modifications to Shallow Marine Banks and Sandy Shorelines in South Florida From Hurricane Andrew", Special Session on Hurricane Andrew, Geological Society of America Annual Meeting, Cincinnati, OH, October, 1992.
- "Geologic Consequences of Hurricane Andrew in South Florida", Indiana/Purdue University Seminars in Geology, Indianapolis, IN, September, 1992.
- "Petrology of platform and slope limestones in a tectonically active carbonate terrain: Nicaraguan Rise, Western Caribbean Sea", Indiana University Geology Seminars, Bloomington, IN, January, 1992.
- "Geology of Modern Tropical Carbonate Environments - South Florida, the Bahamas, and Caicos Platform", Indiana/Purdue University Seminars in Geology, Indianapolis, IN, October, 1991.
- "Generation of Sedimentary Fabrics and Facies By Repetitive Excavation and Storm Infilling of Burrow Networks: An Example From The Safety Valve Skeletal Bar Belt, Biscayne Bay, Florida", Koczy Fellowship Seminar, University of Miami, FL, November, 1990.
- "Role of Burrow Excavation and Infilling in Creating the Preserved Depositional Fabric of the Core Facies of Modern and Paleozoic Mud Mounds", Koninklijke Shell Exploration and Production Laboratory, Rijswijk, The Netherlands and British Petroleum, London, England, August 1990.
- "Biogenic Generation, Transformation and Destruction of Sedimentary Facies by Excavation and Catastrophic Infilling of Burrow Networks: Examples from the Modern and Ancient", East China Petroleum University at Dongying, Shengdong, Peoples Republic of China, April, 1990.

"Biogenic Generation, Transformation and Destruction of Sedimentary Facies by Excavation and Catastrophic Infilling of Burrow Networks: Examples from the Modern and Ancient", Changqing Petroleum Exploration Company of China National Petroleum Corp., Qingyang, Gansu, Peoples Republic of China, April, 1990.

"The Role of Excavating Burrowers in Creating the Preserved Depositional Fabric of Paleozoic Mud Mounds", East China Petroleum University at Beijing, Peoples Republic of China, March, 1990.

"Facies Destruction, Generation and Transformation by Excavating Burrowers", East China Petroleum University at Beijing, Peoples Republic of China, March, 1990.

"The Nature of Catastrophic Sedimentation in the Presence of Excavating Burrowers", Kansas Geologic Survey Conference on Sedimentary Modeling: Computer Simulation of Depositional Sequences, Lawrence, KS, October, 1989.

"The Role of Excavating Burrowers in Generating, Transforming and Destroying Sedimentary Facies", Kansas Geological Survey and University of Kansas, Lawrence, KS, October, 1988.

"Biogenic Facies Destruction, Modification and Generation", Champlain Oil Co., Denver, CO, June, 1987.

#### **PUBLICATIONS** (33 refereed of 42 total articles, book chapters, guidebooks)

In Prep Graves, D.M., Tedesco, L.P., and Jacinthe, P.A., Hydrochemistry of Central Indiana Fens, *Wetlands*.

In Review Jacinthe, P.A., Filippelli, G.M., Tedesco, L.P., and Raftis, R. 2011. Carbon storage and greenhouse gases emission from a fluvial reservoir in an agricultural landscape. *Catena* (revised version submitted 01-14-11).

Song, K., Li, L., Wang, Z-M., Li, S, Li, L., Tedesco, L.P., Li, Z., Duan, H., Du, J., Hyperspectral quantification of total suspended matter through empirical approaches for inland waters, *International Journal of Remote Sensing* (submitted).

Song, K., Li, L., Li, S., Tedesco, L.P., Hall, B.E., Li, L., Hyperspectral Remote Sensing of Total Phosphorus (TP) in Three Central Indiana Water Supply Reservoirs, *Water, Air and Soil Pollution* (accepted, in revision).

Nguy-Robertson, A.L., Li, L., Tedesco, L.P., Wilson, J., and Soyeux, E. (submitted). Comparing the performance of empirical, semi-empirical, and curve fitting models in predicting cyanobacterial pigments, *Photogrammetric Engineering & Remote Sensing* (submitted).

Nguy-Robertson, A.L., Li, L., Tedesco, L.P., Wilson, J., and Soyeux, E. (submitted). Mass-specific absorption for chlorophyll a, phycocyanin, CDOM, and mineral matter from three central Indiana reservoirs, *Hydrobiologia* (submitted).

Atekwana, E.A., Tedesco, L.P., Casey, L.R., and Shrake, L.K., Impacts of watershed modification on freshwater drainage and productivity in three subtropical estuaries, SW Florida, USA, *Estuarine, Coastal, and Shelf Science* (submitted).

Jacinthe, P.A., Bills, J.S, Tedesco, L.P., and Barr, R.C., Vegetation development and flood frequency affecting nitrous oxide emission from riparian zones. *Journal of Environmental Quality* (submitted).

Karns, D.R., Simpson, B., Feaster, B., Sterrenburg, L., Ruch, D.G., Bellian, A., Fisher, B.E., Gorney, D., Holland, J.D., Jean, R., Jones, W.W., McCarty, M., McKnight, W.N., Murphy, W., Namestnik, S., Tedesco, L.P., and Whitaker, J.O., submitted. Results of a Biodiversity Survey at Goose Pond Fish and Wildlife Area, Greene County, Indiana, *Proceedings Indiana Academy of Science*, 13 p.

2010

Jacinthe, P.A., G.M. Filippelli, Tedesco, L.P., and Licht, K. 2010. Distribution of copper in sediments from fluvial reservoirs treated with cutrine. *Water, Air and Soil Pollution*: 211:35-48. (DOI: 10.1007/s11270-009-0278-3)

Li, L., Sengpiel, R., Pascual, D.L., Tedesco, L.P., Wilson, J.S., and Soyeux, E, Using hyperspectral remote sensing to estimate chlorophyll a and phycocyanin in a mesotrophic reservoir, *International Journal of Remote Sensing*, 31:15, 4147-4162, 2010.

Bills, J.S., Jacinthe, P.A., and Tedesco, L.P., 2010. Soil organic carbon pools and composition in a wetland complex invaded by reed canary grass. *Biology and Fertility of Soils*: 46: 697-706.

Babbar-Sebens, M., Barr, R.C., and Tedesco, L.P., 2010. Multiobjective Optimization for Wetland Restoration Site Selection - Eagle Creek Watershed, Indiana, USA, *Proceedings of the American Society of Civil Engineers (ASCE) Environmental & Water Resources Institute 's (EWRI) 3rd Developing Nations Conference: India 2010 - An International Perspective on Current & Future State of Water Resources & the Environment* , Chennai, India, January 5-7, 2010.

Johnstone, J., Vidon, P., Tedesco, L.P., and Soyeux, E., 2010. Nitrogen, phosphorus and carbon dynamics in a third-order stream of the US Midwest, *Proceedings of the Indiana Academy of Science*: 119 (1), June 2010.

Rogers, Y., Connelly, K., Hazelwood, W., and Tedesco, L.P., 2010. Enhancing Learning: A Study of How Mobile Devices Can Facilitate Sensemaking. *Personal and Ubiquitous Computing*, vol. 14 (2), p. 111-124. Springer-Verlag, (DOI: 10.1007/s00779-009-0250-7).



- Jacinthe, P.A., Bills, J.S., Tedesco, L.P., 2010. Size, Activity, and Catabolic Diversity in a Wetland Complex Invaded by Reed Canary Grass: *Plant and Soil*, 329: 227-238.
- 2009 Jacinthe, P.A., and Tedesco, L.P., 2009, Impact of Elevated Copper on the Rate and Gaseous Products of Denitrification in Freshwater Sediments. *Journal of Environmental Quality*, 38: 1183-1192.
- Robertson, A.L., Li, L., Tedesco, L.P., Wilson, J.S., and Soyeux, E. (2009) Using a Partial Least Squares (PLS) Method for Estimating Cyanobacterial Pigments in Eutrophic Inland Waters, *SPIE Optics and Photonics Conference Proceedings*, SPIE Paper Number: 745408 (12 pps).  
(<http://spiedigitallibrary.aip.org/dbt/dbt.jsp?KEY=PSISDG&Volume=7454&Issue=1>)
- 2008 Vidon, P., Tedesco, L.P., Wilson, J., Campbell, M.A., Casey, L.R., and Gray, M. 2008, Direct and Indirect Hydrologic Controls on *E.coli* Concentration and Loading in Midwestern Streams. *Journal of Environmental Quality*, vol. 37, #5, p. 1761-1768.
- Vidon, P., Tedesco, L.P., Pascual, D.L., Campbell, M.A., Casey, L.R., Wilson, J., Gray, M., 2008. Seasonal changes in stream water quality along an agricultural/urban land-use gradient. *Proceedings of the Indiana Academy of Science* 117(2):107-123
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## **SERVICE**

### **PROFESSIONAL:**

- State of Indiana, Natural Resource Conservation Service, State Technical Committee, 2009-present
- State of Indiana, Department of Environmental Management, Nutrient Technical Advisory Group, 2009 – present
- State of Indiana, Department of Agriculture, Technical Advisory Group, 2009 – present
- Indiana State Water Monitoring Council Board of Directors, Founding Member, 2008 - present
- City of Indianapolis Indy Greenprint Commission, Commissioner, Mayoral Appointee Bart Peterson, 2007 – 2010.
- City of Indianapolis, Clean Stream Team Advisory Board, 2007 - present

State of Indiana Water Pollution Control Board, Department of Environmental Management, Wetland Science Advisory Group, 2004 – 2008.

State of Indiana Solid Waste Management Board, Gubernatorial Appointee Joseph Kernan, 2003-present

Indiana Water Resource Research Center, Board of Directors, 2004 – present

Veolia Water Indianapolis Technical Advisory Board, 2003 – present

Science Education Foundation of Indiana, Board of Directors, 2005 – 2008

Upper White River Watershed Alliance, Board of Directors, 2004 – present

Upper White River Watershed Alliance, President, 2006, 2007, Vice-President 2008, 2009

Indiana Geological Map Advisory Committee, 2005 – 2009

Society of Wetland Science, North-Central Chapter, Program Committee, 2006-2007

North American Lake Management Society International Symposium, Program Committee and Session Chair, 2006

State of Indiana Wetland Task Force, Gubernatorial Appointee Frank O'Bannon, 2004

Indiana Water Resources Association Annual Meeting Steering Committee, 2004

Indiana Science Education Alliance Work Group, 2003 - 2004

Tomorrow's Indiana Advisory Committee, Indiana State Museum, 2002 – 2004

Association of State Wetland Managers, Wetlands 2002, Conference Local Area Planning Committee, 2002

Environmental Advisor, Indiana State Museum, 2001 - 2002

Science Advisor, Children's Museum of Indianapolis – 1997 – 2002

Science Advisor, Earth Museum, Minneapolis, MN – 1997 – 2001

Science Advisor, Creative Streets, Inc. – 1999 - 2001

Geological Society of America, Sedimentary Geology Section, Nominating Committee - 1997

Rookery Bay National Estuarine Research Reserve Graduate Fellowship Review Panel - 1997

Geological Society of America National Meeting, Session Chair, 1996, 2001

National Science Foundation, Proposal Reviewer, 1995-present

National Science Foundation, Panelist, 2005

National Oceanographic and Atmospheric Administration, Proposal Reviewer, 1995-1996

William C. Brown Publishers, Textbook Reviewer, 1994, 1998, 2000

Prentice Hall, Textbook Reviewer, 1999

Manuscript Reviewer, Journal of Sedimentary Research, 1997, 1998, 1999, 2000

Manuscript Reviewer, Journal of Geoscience Education, 2002, 2004, 2005

Manuscript Reviewer, Lethia, 2006

Textbook Reviewer, Green Teacher, 2005

**UNIVERSITY LEVEL:**

Campus Sustainability Initiative Steering Committee, Chair, 2005 – present

Permanent Reviewer, University Research and Sponsored Programs Grant Program, 2008 - present

Council on Civic Engagement, 2004 - 2007  
 Center for Research and Learning, Board of Directors, 2004 – 2009.  
 University Centers Advisory Committee, 2002 – 2007  
 Faculty Learning Community on Civic Engagement, 2004-2005  
 Civic Engagement Task Force, 2002- 2004  
 School of Medicine's Task Force on Bioterrorism, 2002 - 2003  
 Task Force on Conflicts of Interest, 2002 - 2003  
 Taylor Symposium Planning Committee, School of Liberal Arts, 2002-2003  
 Campus Campaign 2000 Steering Committee, 2000- 2001  
 Geographic Information Science Task Force, 2000-2001  
 Interdisciplinary Post-Baccalaureate Committee, 1997 - 1999  
 White River State Park/ IUPUI Cooperative Partnership  
     Education Development Committee, 1996 - 1997  
     Gallery Subcommittee, 1996  
     Environmental Focus Group, Chair, 1996 - 1997  
 Writing To Learn Project Participant, 1995-1997  
 College Consolidation Planning Committee, Faculty Affairs Task Force,  
     1995-1996  
 Administrative Review Committee, School of Science Dean, 1995-1996  
 Advising Committee, Search & Screen, University Library, 1994-1995

**SCHOOL OF SCIENCE:**

School of Science Signature Center's Taskforce, 2010 - present  
 Bachelor's of Science in Environmental Science, Program Director, 2006- present  
 Technology Committee, 1993 – present  
 Strategic Planning Administrative Committee, 2007  
 Search and Screen, Major Gifts Officer, 2005  
 Search and Screen, Associate Dean for Academic Affairs, 2004  
 Graduate Affairs Committee, 1995 - 2004  
 Academic Appeals Committee, Chair, 1995-1996  
 Search and Screen - Network Engineer, 1994  
 Library Committee, 1993

**DEPARTMENT:**

Search and Screen (Chair), Hydrologist, 2011  
 Search and Screen (Chair), Hydrologic Modeling, 2008  
 Environmental Science Curriculum Committee, 2005 - present  
 Undergraduate Curriculum Committee, 2005 - present  
 Graduate Program Committee, Chair, 1995 – 2004  
 Technology, Equipment, Space Committee, Chair, 1997 – 2006  
 Primary Committee, 1997 – present  
 Search and Screen for Hydrology and Remote Sensing, 2004  
 Graduate Research Forum, Chair, 1996 – 2003  
 Associate Chair, 1998 – 2001  
 Search and Screen for Geophysics, 2001  
 Department/CEES Coordination Committee, 1998



Publicity Committee, Chair, 1994 – 1999  
 Administrative Reorganization Committee, 1997- 1998  
 Undergraduate Program Committee, 1996 - 1997  
 Technology Advisory Board, Chair, 1996 - 1997  
 Course Review Committee 1995-1997  
     G109, G110, G206, G209, G221, G222, G304, G323  
 External Education Committee, Chair, 1996 - 1997  
 Internship Development Committee, 1995 – 1996  
 Search and Screen for Hydrologist, 1997-1998  
 Search and Screen for Environmental Geologist (2 positions), 1996  
 Search & Screen for Environmental Geologists (2 positions), 1994  
 Search & Screen for Laboratory Coordinator, 1994

**CENTER FOR EARTH AND ENVIRONMENTAL SCIENCE (CEES):**

CEES Director, 1999 - present  
 CEES Associate Director, 1998 – 1999  
     Chief Financial Officer  
     Educational Programs Coordinator  
 CEES Executive Committee, 1997 - 1999  
 Publicity Committee, Chair, 1997 – 1999  
 CEES Advisory Board, 1996 - 1997  
     Research Subcommittee, 1997  
 CEES Development and Planning Committee, Chair, 1994 - 1996

**COMMUNITY:**

Laura Hare Charitable Trust, Trustee, 2006 – present  
 Town of Fishers, Department of Parks, Ritchey Woods Nature Preserve Advisory Council, 2007 - present  
 WFYI, Indiana Natural Heritage Advisory Board, 2007 – 2009.  
 Rotary Club of Indianapolis, Environment and Beautification Committee, co-chair, 2002 – 2007.  
 City of Indianapolis, Gateway’s Working Group, Mayoral Appointee, Bart Peterson, 2004.  
 Featured Environmental Scientist – Indiana State Museum Tomorrow’s Indiana Future’s Gallery, 2002-2005.  
 Featured Research and Restoration Program – Indiana Department of Natural Resources Storm Water Drain Marking Video, October, 2004 (<http://www.doe.state.in.us/media/video/stormdran.html>).  
 Editorial Author – Hands-on Learning, Mentoring Draws Students to Science, Indiana Business Journal, October, 2004.  
 Featured Professor – Education for What: Learning Through Social Responsibility, Campus Compact, September, 2004.  
 Featured Professor – Learning Through Service: Student Engagement at IUPUI, DVD, Campus Compact, Aired on PBS, September, 2004.  
 Featured Researcher – IU Helping with Clean Water Issues, IU Halftime Show, December, 2003.

- Elephant Ancestor's In Indiana – Can You Dig It?, IMAX Theater Interactive Distance Learning Programs, 6 1-hour programs to middle schools, October 20, 21, 1999.
- Paleontology Expert - “T-rex: Back to the Cretaceous”, Daybreak, CBS Channel 8, Indianapolis, November 4, 1998.
- Featured Geologist – Be a Scientist Series, Children’s Museum of Indianapolis, September, 1998.
- Dinosaur Paleontology Expert - Dinomite! A Celebration of Dinosaurs, Children’s Museum of Indianapolis, September 3,4,5, 1998.
- Featured Researcher – The Environmental Consequences of Hurricane Andrew in South Florida, Public Broadcasting, Aired in Southwest Florida, April, 1998.
- Featured Researcher – “Dare to Dream”, Women in Science Educational Recruitment Video Program, April, 1998.
- Featured Researcher – “Dig Those Dinos”, ABC WRTV Channel 6, Aired in Midwest region, September 26, 1997.
- Featured Researcher - “Dino Dig Adventure”, Daybreak, CBS Channel 8, Indianapolis, June 12, 13, and 26, 1997.
- Featured Researcher - “Dino Dig Adventure”, Ameritech/ Children’s Museum of Indianapolis Distance Education, Live Broadcast from Dino Dig site, Wyoming, June 18, 1997.
- Supervisor - IUPUI Science Honors Program - 1996 - 1997.
- Supervisor - IUPUI Summer Science Research Intern - 1996.
- Board of Directors - Dinofest International, 1996 - 1999.
- Educational Programs Coordinator, Dinofest International, 1995 - 1997.
- Featured Researcher - “Women in Science Career Night”, WFYI, PBS and the Women’s Hospital, Children’s Museum of Indianapolis, May 8, 1995.
- Featured Researcher - “Discovering Women Minutes”, Public Television, WFYI Channel 20, March/April, 1995.
- Moderator - DINO FEST Live Satellite Broadcast, John Marshall Middle School, Indianapolis, Broadcast to North American Public Schools and Public Television, Indianapolis, March 25, 1994.
- Contributor - “The Impact of Hurricane Andrew on Biscayne Bay and the Bay’s Response and Recovery?”: Article contributed to publication on the Columbus Day Sailing Regatta Forty Year Celebration in Miami, Florida, October, 1994.
- Featured Researcher - "The Next Generation - A Matter of Teamwork", Public Television, Aired Nationally, September, 1993.
- Judge - IPS Inventors Convention, February, 1993.
- Mentor - IUPUI Scientist Apprentice Program, Summer, 1993.

## **EXPERIENCE**

Cruise: R/V Ferrel - NOAA/Florida Department of Environmental Protection/ Rookery Bay National Estuarine Research Reserve study mapping the substrate and benthic communities offshore of southwestern Florida. Side scan surveying,

sediment sampling and dive operations to study coupling of marine and estuarine processes; with M. Savarese, T. Hopkins; March, 1997.

R/V Sea Diver - Harbor Branch/NOAA National Undersea Research Program/ Univ. South Florida study exploring Holocene low sea-level stand shorelines. Seismic stratigraphic and side scan surveying; submersible diving operations. Florida Keys and adjacent continental shelf; with A.C. Hine, S.D. Locker, and E.A. Shinn; June, 1993.

South Florida - Research Cruises studying (a) the effect of Hurricane Andrew on shallow marine and coastal environments of Biscayne Bay, Florida Bay, and the southwest coast of Florida, (b) carbonate, organic, and siliciclastic facies evolution and preservation through Holocene sealevel rise in Biscayne Bay, Florida Bay and the southwest coast of Florida, (c) role of burrow excavation and infilling in creating the preserved depositional sequence in shallow marine carbonate environments, (d) sediment and pollen record of natural vs. anthropogenic changes in Lower Everglades/Florida Bay ecosystem, and (e) distribution of trace elements and organics in surficial sediments as record of anthropogenic contaminant inputs. With H.R. Wanless and M. Savarese; 1985-2004.

Caicos Platform - Research cruises studying (a) effects of hurricanes on carbonate platform evolution and facies development, (b) facies distribution and development, and (c) Cenozoic evolution of a carbonate platform. Methods included Pleistocene and Holocene outcrop study, surficial sediment sampling, coring, vibracoring and seismic stratigraphic surveying; with H.R. Wanless; January, 1986, December, 1987, July, 1988, July, 1989 and July 1991.

R/V Cape Hatteras - NSF/Univ. South Florida study to examine structure, stratigraphy, sedimentology and geologic evolution of the Nicaraguan Rise, Caribbean Sea; with A.C. Hine, P. Hallock-Muller, May 1988.

R/V Cape Hatteras - NSF/Syracuse University study to examine the structure, stratigraphy, sedimentology and geologic evolution of the West Florida Slope; with A.C. Hine, H. Mullins; February 1985.

R/V Bellows - FIO/Univ. South Florida seismic profiling off Crystal River, Florida area, to search for paleo-spring discharge sites and fossil oyster bioherms; with A.C. Hine; October, 1984.

Field: Southern California - Lake Sedimentation in the San Gorgonio Wilderness of Southern California: A Record of El Niño Periodicity; San Bernadino Mountains. Sediment coring in an alpine lake; with A. Barth, G. Filippelli, D. Clark; August, 1996.

Central Wyoming - Facies Analysis of Terrestrial Depositional Environments: Late Cretaceous Lance Creek Formation; A Flashflood Dinosaur Mass Kill Event. Mapping, facies descriptions, and paleoenvironmental reconstructions of fluvial channel and flood plain deposits; with H. Halvorson, Earth Museum, Minneapolis, MN; June, 1996, June, 1997.

Detailed facies and sequence analysis of ancient limestone, dolomite, and sandstone units studying (a) the effects of bioturbation on facies and sequence development and preservation {Cretaceous Colorado; Mississippian Indiana; Pennsylvanian Kansas; Mississippian and Pennsylvanian New Mexico; Cretaceous Texas; Cambro-Ordovician Utah; Cambrian, Permian, and Triassic, Peoples Republic of China; Mississippian England, Wales and Belgium} and (b) the role of storm processes in creating and modifying depositional sequences {Cambro-Ordovician Grand Canyon, Arizona; Cambro-Ordovician Western Maryland; Cambro-Ordovician Labrador and New Foundland; Mississippian Indiana; and Pleistocene South Florida and Caicos Platform}; 1987 to present.

Field Courses: Southwest Florida – Co-Project Director, Late Holocene Sea Level and Coastal Evolution; with M. Savarese, C. Mankiewicz, Keck Undergraduate Research Project, Rookery Bay National Estuarine Research Reserve, June, 2001.

Southwest Florida – Co-Project Director, Estuarine Processes and Coastal Evolution; with M. Savarese, C. Mankiewicz, Keck Undergraduate Research Project, Rookery Bay National Estuarine Research Reserve, May, 1999.

Southwest Florida – Co-Trip Leader, Estuarine Processes and Coastal Evolution; with H.R. Wanless, M. Savarese, Keck Undergraduate Research Consortium, Rookery Bay National Estuarine Research Reserve, January, 1998.

South Florida - Co-Trip Leader, The Role of Storm Processes on the Growth and Evolution of Coastal and Shallow Marine Environments In South Florida; with H.R. Wanless, 1st SEPM Sedimentary Congress on Sedimentary Geology, August 1995.

Caicos Platform - Co-Trip Leader, Carbonate Environments and Sequences of Caicos Platform with an Introduction in South Florida; with H.R. Wanless, 28th International Geological Congress Field Trip; July 1989.