

**LENORE PHILIPPA TEDESCO**

Executive Director  
Wetlands Institute  
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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 –  
Adjunct Professor, Department of Earth Sciences,  
Indiana/Purdue University at Indianapolis, 2011 – present.  
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, 2004-2011.  
Adjunct Associate Professor, School of Education,  
Indiana University at Indianapolis, 2005-2011  
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; beach, wetland and stream restoration; environmental education; sedimentology.

### **SYNERGISTIC ACTIVITIES**

Member Wetlands Link International North American Steering Committee  
 Member State of New Jersey Waterfowl Stamp Advisory Committee  
 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**

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<br>Purdue School of Science Excellence in Teaching Award<br>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<br>Kansas Geological Survey Research Award   |
| 1988 | Gulf Coast Association of Geological Societies Research Award<br>Kansas Geological Survey Research Award<br>Bader Memorial Student Research Award - University of Miami            |
| 1985 | Texaco Graduate Fellow - University of Miami   |
| 1984 | Graduate Council Fellow - University of South Florida<br>Summa Cum Laude - Boston University   |
| 1983 | Case/Melville Scholarship - Boston University  |

### **STUDENT ADVISORY COMMITTEES**

Ph.D.: A. Smith (co-chair), \*J.A. Risi (University of Miami)

M.S.: \*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)

The Jersey Shore Terrapin Conservation Project

Disney Worldwide Conservation Fund

10/15 – 9/16

\$24,750

pending

Beach Restoration at Southern Seven Mile Island, New Jersey

National Fish and Wildlife Foundation Hurricane Sandy Coastal Resiliency Competitive Grants Program		
6/2014 – 5/2016	\$1,533,182	pending
Debris-Free Land and Sea: Reducing Marine Debris in Cape May County, New Jersey through Community Outreach, Education, and Engagement NOAA Marine Debris Prevention through Education		
8/2014 – 7/2016	\$168,547 (federal \$57,115)	pending
The Jersey Shore Terrapin Conservation Project Disney Worldwide Conservation Fund		
10/2014 – 9/2015	\$24,450	
The Jersey Shore Terrapin Conservation Project Disney Worldwide Conservation Fund		
10/2013 – 9/2014	\$24,750	
Upland Invasive Species Control at the Stone Harbor Bird Sanctuary Franklin Parker Small Grants Program		
6/2013 – 12/2013	\$6,250	
Horseshoe Crab and Shorebird Habitat Restoration on Delaware Bay National Fish and Wildlife Foundation via subcontract with American Littoral Society		
11/2012 – 6/2013	\$22,566	
Algae, Taste and Odor, and Algal Toxin Monitoring Program for Indianapolis Drinking Water Reservoirs Citizens Energy Group		
10/11 – 12/12	\$150,000	
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  
 1/09-12/13 €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  
 Efrogmson 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**

Russia-US Wetland Center Exchange Program: Linking People and Wetlands  
 US Mission to Russia  
 10/2014 – 9/2015              \$97,316              pending

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		
10/00 – 12/01	\$54,950	Co-Project Director with M. Savarese
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 IUPUI**

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 while at IUPUI {1991-2011 }; 5 at The Wetlands Institute)

- “Implementing the Plan for the Future at The Wetlands Institute”, Avalon Community Connections, Avalon, NJ, April, 2014.
- “The Impact of Hurricane Sandy in Cape May County and the Delaware Bay Horseshoe Crab Restoration Project”, Villanova University, Villanova, PA, January, 2014.
- “The Impact of Hurricane Sandy in Cape May County and the Delaware Bay Horseshoe Crab Restoration Project”, Delaware Valley Geographic Society Annual Meeting, West Chester, PA, December, 2013.
- “The Impact of Hurricane Sandy in Cape May County”, 2013 Clarke Lecture Series, Wetlands Institute, Stone Harbor, July, 2013.
- “Hurricane Sandy in Cape May County”, 2013 Lunch N Learn, Wetlands Institute, Stone Harbor, NJ, March, 2013.
- “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 Public 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** (40 refereed of 49 total articles, book chapters, guidebooks)

- In Press      Song, K., Li, L., Tedesco, L.P., Duan, H., Li, L., Du, J. 2013. Remote quantification of total suspended matter through empirical approaches for inland waters. *Journal of Environmental Informatics* (in press).
- Song, K. S., Li, L., Li, Z. C., Tedesco, L., Hall, B., Shi, K. 2013. Remote detection of cyanobacteria through phycocyanin for water supply source using three-band model. *Ecological Informatics*, Doi.org/10.1016/j.ecoinf.2013.02.006. (in press).
- Song, K. S., Li, L., Tedesco, L. P., Li, S., 2013. Remote estimation of chlorophyll-a in turbid inland waters: Three-band model versus GA-PLS model. *Remote Sensing of Environment*, Doi. 10.1016/j.rse.2013.05.017. (in press).
- Li, L, Lin, L., Song, K., Li, Y., Tedesco, L.P., Shi, K., and Li, Z., An inversion model for deriving inherent optical properties of inland waters: Establishment, validation and application. *Remote Sensing of Environment* (in press).
- Nguy-Robertson, A., Li, L., Tedesco, L.P., Wilson, J.S., and Soyeux, E., 2013. Determination of absorption coefficients for chlorophyll a, phycocyanin, mineral matter and CDOM from three central Indiana reservoirs. *Journal of Great Lakes Research* (in press).



- In Review Song, K., Li, L., Tedesco, L.P., Clercin, N.A., Li, L., Shi, K., Spatiotemporal characterization of colored dissolved organic matter (CDOM) absorption spectra for productive inland waters. *Limnologica* (submitted).
- Song, K., Li, L., Li, S., Li, Z., Tedesco, L.P., Hall, B.E., and Li, L., Shi, K., Liu, D., and Sun, Y., Remote estimation of phycocyanin in water supply sources via partial least squares-artificial neural network (PLS-ANN) modeling. *ISPRS Journal Photogrammetry and Remote Sensing* (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).
- 2014 Song, K., Li, L., Li, S., Tedesco, L.P., Duan, H., Li, Z., Shi, K., Du, J., Ying, Z., and Hou, J., 2014. Using Partial Least Squares-Artificial Neural Network for Inversion of Inland Water Chlorophyll-a. *IEEE Transactions on Geosciences and Remote Sensing*, v. 52, #2, p. 1502-1517.
- 2013 Krause, B., Matzinger, A., Litz, N., Tedesco, L.P., and Wessolek, G., 2013. Concurrent nitrate and atrazine retention in bioreactors of straw and bark mulch at short hydraulic retention times. *Ecological Engineering*, v. 55, p. 101-113.
- Babbar-Segens, M., Barr, R.C., Tedesco, L.P., and Anderson, M., Spatial Identification and Optimization of Upland Wetlands in Agricultural Watersheds, *Ecological Engineering*, v.52, p. 130-142.
- Bruder, S Babbar-Sebens, M., Tedesco, L.P., and Soyeux, E. Use of fuzzy logic models for prediction of taste and odor compounds in algal-bloom affected inland water bodies. *Environmental Monitoring and Assessment*, DOI 10.1007/s10661-013-3471-1.
- Song, K., Li, L., Tedesco, L.P., Li, S., Duan, H., Liu, D., Hall, B.E., Du, J., Li, Z., Shi, K., and Ying, Z., Remote estimation of chlorophyll-a in turbid inland waters: Three-band model versus GA-PLS model. *Remote Sensing of Environment*, v. 136, p. 342-357.
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- 1987 Wanless, H.R., and Tedesco, L.P., Burrow-generated sedimentary sequences: An example from the Glen Rose Formation, Lower Cretaceous, Austin, Tx.: Soc. Econ. Paleontologists Mineralogists Midyear Mtg., Austin, IV, p. 88-89.
- Wanless, H.R., Tyrrell, K.M., and Tedesco, L.P., Hurricane-dominated carbonate tidal flats, Caicos Platform, British West Indies: Am. Assoc. Petroleum Geologists Bull., 71, p. 625.
- 1986 Tedesco, L.P., Wanless, H.R., and Tyrrell, K.M., Tabular and Tubular Tempestite Deposits from Hurricane Kate, Caicos Platform, British West Indies: Soc. Econ. Paleontologists Mineralogists, Ann. Midyear Mtg., Raleigh, 3, p. 108.

## **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.