

LENORE PHILIPPA TEDESCO

Department of Earth Sciences/
Center for Earth and Environmental Science
Indiana/Purdue University at Indianapolis

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Date and Place of Birth: 20 May 1962, 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

- Director, Center for Earth and Environmental Science,
Indiana/Purdue University at Indianapolis, 1999 – present.
Associate Professor, Department of Earth Sciences,
Indiana/Purdue University at Indianapolis, 1997 - present.
Director, Central Indiana Water Resources Partnership
Indiana/Purdue University at Indianapolis, 2003 – present.
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

Sedimentology; wetland and stream restoration; water resources; environmental education.

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.
- 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.
- Program Director, Bachelors of Science in Environmental Science Degree, IUPUI 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 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
- Environmental Education Association of Indiana
- Indiana Lake Management Society
- Indiana Water Resources 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 Life Time 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.: D. L. Pascual (University of Michigan), *J.A. Risi (University of Miami)
 M.S.: M. Stouder (chair), A. Cowan (chair), A. Campbell (chair), B. Simpson (chair), A. Tilton (chair), J. DeLury (Geography), J. Johnstone, A. Adamczyk, W. DeBoard (Geography), J. Webber (Geography), A. Smith, A. Gamble, 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

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

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
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
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

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

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

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 \$655,375.00 (\$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 \$569,820.00

Cyanobacterial Ecology and Toxicology of Central Indiana Reservoirs

Veolia Water Indianapolis

1/09-12/09 \$158,982.00

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 €150,000.00 (~\$216.200.00)

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 \$38,000.00

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 \$50,333.00

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 \$89,000.00

Cyanobacterial Ecology and Toxicology of Central Indiana Reservoirs

Veolia Water Indianapolis

1/08-12/08 \$178,048.00

Mapping Aquatic Vegetation with Hyperspectral Remote Sensing Imagery

Co-PI with J. Wilson and L. Li

Indiana Department of Natural Resources, Lake and River Enhancement Program

7/07-9/09 \$49,995.00

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 \$265,608.00

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 \$77,760.00

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 \$175,247.00

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 \$147,788.00

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 \$21,000.00

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 \$522,911.00 (\$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 \$21,789.00

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 \$30,000.00

- Water Quality and Nutrient Cycling in Indianapolis' Drinking Water Reservoirs and their Watersheds
Veolia Water Indianapolis
3/04-3/05 \$57,612.00
- An Integrated Environmental Monitoring Network and Its Visualization
Indiana University Pervasive Technology Labs Fellows Program
12/03-12/04 \$40,674.00
- 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 \$70,395.00
- 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 \$141,365.00
- 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 \$38,531.00
- The Lilly ARBOR Project: An Experiment in Urban Riparian Restoration
Eli Lilly Foundation
4/01-4/06 \$200,000.00
- The White River Riparian Restoration Project
National Fish and Wildlife Federation;
8/00-8/01 \$9,960.00
- White River Riparian Restoration Project: An Urban Reforestation Program;
IUPUI Office for Professional Development;
5/00-4/01 \$10,000.00
- 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 \$24,870.00

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 \$5,000.00

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 \$55,200.00

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 \$26,674.00

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 \$10,000.00

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 \$15,000.00

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 \$63,579.00

Differentiating Environments of Ooid Formation Using Grain Characteristics;

IU/PU Summer Research Fellowship

6/93-8/93 \$6,000.00

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 \$8,933.00

Comparative Analysis of Modern and Ancient Oolitic Sediments: Petrology and
 Depositional Environments;
 IU/PU Summer Research Fellowship
 6/92-8/92 \$6,000.00

Comparative Analysis of Modern and Ancient Oolitic Sediments: Petrology and
 Depositional Environments;
 IU/PU Grant-in-Aid for Research
 3/91-12/92 \$3,000.00

EDUCATION AND TEACHING GRANTS

Discovering the Science of the Environment
 Co-Pi with L. Li
 NASA
 6/09-7/13 \$60,000.00 (pending)

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 \$2,993,160.00

Wetlands Education Workshops
 Indiana Department of Environmental Management
 J.F. New and Associates, Inc.
 5/08-9/08 \$8,999.00

Discovering the Science of the Environment
 Nina Mason Pulliam Charitable Trust
 7/06-7/08 \$170,000.00

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 \$345,500.00

Central Indiana Watershed Enhancement Partnership
 IUPUI Commitment to Excellence for Civic Engagement Civic Collaborative
 7/04-6/06 \$60,000.00

Water Resources Interdisciplinary Civic Partnership
 IUPUI Commitment to Excellence for Civic Engagement Civic Collaborative
 9/03-5/04 \$21,000.00

An Integrated Environmental Monitoring Network

IUPUI School of Science Student Technology Fees
10/03-12/05 \$56,000.00

National GIS Day Workshop
Central Indiana Community Foundation Library Fund
with R. Crumrin
12/03-7/04 \$3,060.00

The Lilly ARBOR Project: An Ecological Field Study Experience
Central Indiana Educational Service Center
Seam Summer Institute
5/03-10/03 \$15,470.40

An Ecological Field Study Experience
Central Indiana Educational Service Center
Project Seam Professional Development Workshops
3/02-10/02 \$7,350.00

An Integrated GPS Field Surveying System
IUPUI School of Science Student Technology Fees
7/02-7/03 \$18,645.00

Creating a Community of Environmental Service Scholars
Community Service Scholarships, IUPUI Office of Public Service and Leadership
1/02 – 5/02 \$2,250.00

Environmental Service Learning for Undergraduate Service Course
Community Service Scholarship, IUPUI Office of Public Service and Leadership
8/01 – 12/01 \$2,250.00

Environmental Science Activity Module Development for K-12 Education at the Lilly
ARBOR Project
Eli Lilly and Company
1/01 – 12/01 \$20,400.00

Environmental Service Learning at the Lilly ARBOR Site
Community Service Scholarship, IUPUI Office of Public Service and Leadership
1/01 – 5/01 \$2,250.00

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 \$54,950.00

Environmental Service Learning in Introductory Geology Classes

Community Service Scholarship, IUPUI Office of Public Service and Leadership
8/00 – 12/00 \$1,500.00

The Great Coral Reef Adventure
The Children's Museum of Indianapolis
7/00 – 6/01 \$7,674.00

Incorporating Service Learning into Introductory Oceanography Classes
Community Service Scholarship, IUPUI Office of Public Service and Leadership
12/00 – 5/00 \$1,500.00

A Field Station for Introductory Geology Laboratories on the White River
IUPUI School of Science Student Technology Fees
7/99-7/00 \$34,520.00

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 \$63,500.00

Field Instrumentation for Advanced Classes and Technologically Advanced Classrooms;
IUPUI School of Science Student Technology Fees
7/97-7/98 \$44,842.00

Dino Dig: An Interactive Distance Learning Experience;
Children's Museum of Indianapolis and Ameritech Corporation
11/96-11/97 \$14,400.00

Use of Internet for Teaching and Course Materials Presentation
IUPUI School of Science Student Technology Fees
7/96-7/97 \$22,015.00

Innovative Projects in General Education Planning Grant: Geology/Geography G185
Global Environmental Change;
with T. Brothers, C. Souch, G. Filippelli
6/95-6/96 \$1,000.00

Building an Undergraduate Geology Student Computing Cluster
IUPUI School of Science Student Technology Fees
7/93-7/94 \$16,255.90

RESEARCH CONTRACTS

Development of Restoration and Mitigation Plans for Streams and Wetlands on
Indianapolis Park Properties
Indianapolis Parks Foundation, Inc.
12/07-12/12 \$13,500.00 + work package amendments

6/09-6/10 Amendment 1 - \$119,460.00

IUPUI Sustainability Benchmarking and Water Resource Research and Training
Veolia Water Indianapolis, LLC.
1/08 – 6/09 \$112,447.00

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 \$33,250.00

Indiana Fen Delineation and Hydrologic Assessment Southwestway Park, Marion County
Indianapolis Department of Parks and Recreation
9/04-12/05 \$14,973.00

Monitoring Ecological Restoration at Ritchey Woods Natural Area
The Children's Museum of Indianapolis
1/02-1/03 \$7,000.00

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 \$2,500.00

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 \$5,600.00

Dry Tortugas/Fort Jefferson National Monument Submerged Cultural Resources
Site Stability Assessment
Submerged Cultural Resources Unit - National Park Service
8/95-10/97 \$1,200.00

SERVICE GRANTS

Measurement of Cyanobacterial Toxins in Three Central Indiana Drinking Water
Reservoirs
Indiana Department of Natural Resources
5/08-12/08 \$21,025.00

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 \$12,000.00

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 \$26,125.00

The Center for Earth and Environmental Science

Strategic Directions Charter, Indiana University

7/99-6/01 \$40,000.00

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 \$299,496.00

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 \$ 48,590.00

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 \$50,000.00

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

INVITED LECTURES (118 lectures since coming to IUPUI)

“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 Mangers 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, 12th 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 34th 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, 49th 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, 33rd 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 6th 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 5th Wetlands Workshop, Atlantic City, N.J., October, 2002.
- “Wetland Restoration: The Lilly ARBOR Project”, 2002 10th 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, 11th 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 (27 refereed of 35 total articles, book chapters, guidebooks)

- In Review Jacinthe, P.A., Filippelli, G.M., Tedesco, L.P., and Licht, K., Distribution of copper in sediments from fluvial reservoirs treated with cutrine, *Water, Air & Soil Pollution* (in revision review).
- Robertson, A.L., Li, L., Tedesco, L.P., Wilson, J.S., and Soyeux, E., Comparison between spectral indices, curve-fitting, and semi-empirical models in predicting algal pigments in Case II waters, *Remote Sensing of Environment* (submitted).
- Johnstone, J., Vidon, P., Tedesco, L.P., and Soyeux, E., Nitrogen, phosphorus and carbon dynamics in a third-order stream of the US Midwest, *Hydrological Processes* (submitted).
- In Prep Graves, D.M., Tedesco, L.P., and Jacinthe, P.A., Hydrochemistry of Central Indiana Fens, *Wetlands*.
- Accepted Li, L., R. Sengpiel, L. Tedesco, J. Wilson, and E. Soyeux, Estimation of chlorophyll a and phycocyanin from airborne hyperspectral imagery, *Remote Sensing of Environment* (accepted with revision - in review).
- Robertson, T., L. Li, L. P. Tedesco, J. S. Wilson, and E. Soyeux, 2009, Using a modified Gaussian model to predict cyanobacterial pigment abundance in central Indiana reservoirs, *IEEE Journal of Selected Topics in Earth Observation and Remote Sensing* (conditionally accepted).

- In Press 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* (in press, 2009).
- Rogers, Y., Connelly, K., Hazelwood, W., and Tedesco, L.P., Enhancing Learning: A Study of How Mobile Devices Can Facilitate Sensemaking. *Personal and Ubiquitous Computing*, (DOI: 10.1007/s00779-009-0250-7(in press)).
- Jacinthe, P.A., Bills, J.S., Tedesco, L.P., 2009. Size, Activity, and Catabolic Diversity in a Wetland Complex Invaded by Reed Canary Grass: *Plant and Soil* (DOI:10.1007/s11104-009-0147-2)(in press, 2009).
- 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: 7454-7.
(<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
- Tedesco, L.P. 2008. Society at a Crossroads: Our Relationship with the Environment. *Indiana Insight*, 12-15.
- Wagner, L.E., Vidon, P., Tedesco, L.P., Gray, M, 2008. Stream nitrate and DOC dynamics during three spring storms across land uses in glaciated landscapes of the Midwest. *Journal of Hydrology*, 362:177-190.
- Randolph, K., Wilson, J., Tedesco, L.P., Li, L., and Soyeux, E., 2008. Hyperspectral Remote Sensing of Cyanobacteria in Turbid Inland Waters Using Optically Active Pigments, Chlorophyll a and Phycocyanin. *Remote Sensing of Environment*, Special Issue – Application of Remote Sensing to Monitoring

- Freshwater and Estuarine Systems, vol. 112 (# 11), p. 4009-4019.
(DOI:10.1016/j.rse.2008.06.002).
- Hack, E., Tedesco, L.P., Floress, K., and Prokopy, L.S., (invited), 2008. Using Social Indicator Research to Enhance Watershed Education for Drinking Water Resources: Eagle Creek Watershed, IN. *Lakeline*, vol. 28, # 4.
- 2007 Rogers, Y., Connelly, K., Tedesco, L., Hazelwood, W., Kurtz, A., Hall, B.E., Hursey, J., and Toscos, T., 2007, Why It's Worth the Hassle: The Value of In-Situ Studies When Designing. UbiComp 2007 In J. Krumm et al. (Eds.) UbiComp 2007, LNCS 4717, Springer-Verlag, Berlin Heidelberg, pp. 336–353. doi:10.1027/978-3-540-74853-3. (Nominated for best paper award).
- 2006 Tedesco, L.P., and Salazar, K.A., 2006, Using Environmental Service Learning in an Urban Environment to Address Water Quality. *Journal of Geoscience Education*, vol. 54, #2, p. 123-132.
- 2004 Tedesco, L.P., Hernly, F.V., Hall, B.E., Salazar, K.A., Lindsey, G., and Minger, T. The Lilly ARBOR Project: An Experiment in Urban Riparian Restoration (Indiana). *Ecological Restoration*, v. 22, #4, p. 294-295.
- 2003 Atekwana E.A, Tedesco, L.P., and Jackson, L.R. Dissolved Inorganic Carbon (DIC) and hydrologic mixing in a subtropical riverine estuary, southwest Florida, USA. *Estuaries*, v. 26, p. 1391-1400.
- 2002 Barr, R.C., Hall, B.E., Wilson, J.S., Souch, C., Lindsey, G., Bacone, J.A., Campbell, R.K., and Tedesco, L.P., Documenting changes in the natural environment of Indianapolis-Marion County between the time of European settlement (ca. 1820) and the present: *Ecological Restoration*, v. 20, p. 37-46.
- 2001 O'Neal, M.A., Tedesco, L.P., Souch, C., and Pachut, J.F., A Pollen Zonation of Southwestern Florida Using Multivariate Statistical Methods and Its Application to Two Vertical Sedimentary Sequences: *Bull. American Paleontology*, Number 361, Paleocological Studies of South Florida, B.R. Wardlaw (ed.), Chapter 6, p. 101-132.
- Nelsen, T.A., Garte, G., Featherstone, C., Wanless, H.R., Trefry, J.H., Kang, W.J., Metz, S., Alvarez-Zarikian, C., Hood, T., Swart, P., Ellis, G., Blackwelder, P., Tedesco, L.P., Souch, C.S., Pachut, J.P., and O'Neal, M.A., Linkages between the South Florida peninsula and coastal zone: A sediment-based history of natural and anthropogenic influences: Chapter 14, in The Everglades, Florida Bay, and Coral Reefs of the Florida Keys: An Ecosystem Sourcebook. J.W. Porter and K.G. Porter (eds.), CRC Press, Boca Raton, FL., p. 415-450.
- 1997 Tedesco, L.P., Depositional Sequences, Paleoenvironmental Setting, and Preservation Potential, Lower Cretaceous Glen Rose Formation, Central Texas, in

D.L. Wolberg, E.A. Stump, and G.D. Rosenberg (eds.), DinoFest International, Philadelphia Academy of Natural Science Special Publication, p. 361-376.

Tedesco, L.P. and Aller, R.C., ^{210}Pb Chronology of sequences affected by burrow excavation and infilling: Examples from shallow marine carbonate sediment sequences, Holocene of south Florida and Caicos Platform, British West Indies: *Journal of Sedimentary Research*, v. 67, p. 36-46.

1996 Locker, S.D., Hine, A.C., Tedesco, L.P., and Shinn, E.A., Magnitude and timing of episodic sea-level rise during the last deglaciation: *Geology*, v. 24, p. 827-830.

1995 Tedesco, L.P. Wanless, H.R., Scusa, L.A., Risi, J.A., and Gelsanliter, S., Impact of Hurricane Andrew on South Florida's sand coastlines: *Journal of Coastal Research*, Special Issue 21, p. 59-82.

Risi, J.A., Wanless, H.R., Tedesco, L.P., and Gelsanliter, S., Catastrophic sedimentation from Hurricane Andrew along the southwest Florida coast: *Journal of Coastal Research*, Special Issue 21, p. 83-102.

Tedesco, L.P. and Wanless, H.R., Growth and transformation of carbonate banks: Comparison of modern skeletal banks of south Florida and Pennsylvanian banks of southeastern Kansas: International Association of Sedimentologists Spec. Publication #23: Mud Mounds: Origin and Evolution, C.V.L. Monty, D. Bosence, P. Bridges, and B. Pratt (eds.), p. 495-521.

Wanless, H.R., Cottrell, D.J., Tagett, M.G., Tedesco, L.P., and Warzeski, E.R., Origin and growth of carbonate mud banks in south Florida: a reevaluation: International Association of Sedimentologists Spec. Publication #23: Mud Mounds: Origin and Evolution, C.V.L. Monty, D. Bosence, P. Bridges, and B. Pratt (eds.), p. 439-473.

Wanless, H.R., Tedesco, L.P., Risi, J.A., Bischof, B.G., Gelsanliter, S., The Role of Storm Processes on the Growth and Evolution of Coastal and Shallow Marine Sedimentary Environments in South Florida, 1st SEPM Congress on Sedimentary Geology, Field Trip Guidebook, 179 p.

1994 Hine, A.C., Harris, M.W., Locker, S.D., Hallock, P., Peebles, M., Tedesco, L.P., Mullins, H.T., Snyder, S.W., Belknap, D.F., Gonzales, J.L., Neumann, A.C., and Martinez, J., Sedimentary infilling of an open seaway; Bawihka Channel, Nicaraguan Rise: *Journal of Sedimentary Research*, v. B64(1), p. 2-25.

Wanless, H.R., Parkinson, R.W., and Tedesco, L.P., Sea level control on stability of Everglades wetlands: in Everglades: The Ecosystem and Its Restoration, S. Davis and J. Ogden (eds.), St. Lucie Press, Delray Beach, FL, p. 199-223.

- 1993 Wanless, H.R. and Tedesco, L.P., Comparison of oolitic sand bodies generated by tidal versus wind-wave agitation: in *Mississippi Oolites and Modern Analogs*, B. Keith and C. Zuppann (eds.), American Association of Petroleum Geologists, Studies in Geology #35, Tulsa, Oklahoma, p. 199-225.
- Wanless, H.R. and Tedesco, L.P., Depositional and early diagenetic controls on texture and fabric of carbonate mud banks: in R. Rezak and D. Lavoie (eds.), Carbonate Microfabrics, Frontiers in Sedimentary Geology, Springer-Verlag, p. 41-63.
- 1992 Hine, A.C., Locker, S.D., Tedesco, L.P., Mullins, H.T., Hallock, P., Belknap, D.F., Gonzales, J.L., Neumann, A.C., and Snyder, S.W., Megabreccia shedding from low relief carbonate platforms in an active tectonic setting: Nicaraguan Rise: *Geological Society America Bulletin*, v. 104, p. 928-943.
- 1991 Tedesco, L.P. and Wanless, H.R., Generation of sedimentary fabrics and facies by repetitive excavation and storm infilling of burrow networks, Holocene of South Florida and Caicos Platform, BWI: *Palaios*, v. 6, p. 326-343.
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Tedesco, L.P., Vertical fluxes resulting from bioirrigation: the significant effect of deep burrowing arthropods: Symposium on Florida Keys Regional Ecosystem Abstracts, Rosenstiel School of Marine and Atmospheric Science and the University of Miami, Miami, Florida, Abstracts, p. 76.

Wanless, H.R., Tedesco, L.P., Cottrell, D., and Tagett, M.G., Holocene environmental history of carbonate banks in Florida Bay and Biscayne Bay, South Florida: Symposium on Florida Keys Regional Ecosystem Abstracts, Rosenstiel School of Marine and Atmospheric Science and the University of Miami, Miami, Florida, Abstracts, p. 82.

1991 Tedesco, L.P. and Wanless, H.R. Fabric selective dolomitization and porosity enhancement in fine-grained shelf and bank facies: International Symposium on the Exploration and Development of Low Permeability Oil and Gas Reservoirs, Xian, Peoples Republic of China.

Tedesco, L.P., Aller, R.C., and Wanless, H.R., 210-Pb chronology of sequences affected by burrow excavation and infilling: Geol. Soc. America, Ann. Mtg., Abstracts, v. 23, San Diego, p. A225.

Wanless, H.R. and Tedesco, L.P., A re-evaluation of Mississippian mud mounds based on their internal stratigraphy: Geol. Soc. America, Ann. Mtg., Abstracts, v. 23, San Diego, p. A226.

1990 Hine, A.C, Locker, S.D., Mullins, H.T., Tedesco, L.P., and Hallock, P. Multiple megabreccia shedding from low-relief carbonate platforms in an active tectonic setting: Nicaraguan Rise, SW Caribbean Sea: Am. Assoc. Petroleum Geologists Ann. Convention Abstracts, San Francisco, p. 102.

Tedesco, L.P. and Wanless, H.R. Role of burrow excavation and infilling in creating the preserved depositional fabric of the core facies of modern and Paleozoic mud mounds: International Assoc. of Sedimentologists Ann. Mtg., Nottingham, England, Posters, p. 214.

Tedesco, L.P. and Wanless, H.R. Biogenic generation, transformation and destruction of sedimentary facies by excavation and catastrophic infilling of burrow networks: International Assoc. of Sedimentologists Ann. Mtg., Nottingham, England, Papers, p. 546.

Wanless, H.R., Cottrell, D.J., Tagett, M.G., Tedesco, L.P., and Warzeski, E.R. Origin and growth of carbonate mud banks in south Florida: a reevaluation: International Assoc. of Sedimentologists Ann. Mtg., Nottingham, England, Abstracts, Papers, p. 588.

Wanless, H.R. and Tedesco, L.P. Ooids: an expanded model for petrologic form, genesis and sediment body geometry: International Assoc. Sedimentologists Ann. Mtg., Nottingham, England, Abstracts, Papers, p. 587-588.

Wanless, H.R. and Tedesco, L.P. Depositional and early diagenetic controls on fabrics and porosity of carbonate mudbanks: Carbonate Microfabrics Symposium and Workshop, NOARL/TAMU, College Station, Abstracts, p. 19.

Wanless, H.R. and Tedesco, L.P. Comparative facies analysis of oolitic sandbodies generated by tide versus wind agitation: Geol. Soc. America Ann. Mtg. Abstracts, Dallas, Tx, p. A131-A132.

1989 Tedesco, L.P. and Wanless, H.R., Biogenic generation, transformation and destruction of sedimentary facies: 28th International Geological Congress, Washington, D.C., Abstracts, v. 3, p. 224-225.

Tedesco, L.P. and Wanless, H.R., The depositional sequences of phylloid mounds: A reappraisal: Geol. Soc. America Ann. Mtg., Abstracts, St. Louis, p. A292.

Wanless, H.R., Tedesco, L.P., Dravis, J.J., and Emerson, J.D., Alternate models of Bahamian platform carbonate sedimentation: Caicos Platform, British West Indies: 28th International Geological Congress, Washington, D.C., Abstracts, v. 3, p. 331-332.

Wanless, H.R., Tedesco, L.P., and Dravis, J.J., An expanded model for ooid form and genesis: Caicos Platform, British West Indies: Am. Assoc. Petrol. Geol. Bull., v. 73, p. 1041.

1988 Tedesco, L.P. and Wanless, H.R., Paleoenvironmental reconstruction of Paleozoic mud mounds: A reinterpretation based on modern burrow infill fabrics: Geol. Soc. America, Ann. Mtg., Denver, Abstracts with program, v. 20(7), p. A211.

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 - present
 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 – present
 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 – present
 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
 Council on Civic Engagement, 2004 - 2007
 Center for Research and Learning, Board of Directors, 2004 - present
 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:

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, 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 - present

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 Geronio 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.