

CURRICULUM VITAE

Daniel L. Childers, Ph.D., Associate Professor
Wetland Ecosystems Ecology Lab
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December 2004

EDUCATION:

- 1983 Bachelor of Arts: Department of Environmental Sciences and Department of Biology, University of Virginia, Charlottesville, VA 22903
- 1985 Master of Science: Marine Science Program, University of South Carolina, Columbia, SC 29208
- 1989 Doctor of Philosophy: Department of Marine Sciences, Center for Wetland Resources, Louisiana State University, Baton Rouge, LA 70803.

EXPERIENCE:

- 1982-1983 Undergraduate Research Assistant, Department of Biology, University of Virginia. Projects: 1) Effects of acidification on life history traits of freshwater clams; 2) Identification of life-history strategies of a lotic population of freshwater clams (D. Hornbach, advisor)
- 1983-1985 Graduate Research Assistant, Belle W. Baruch Institute for Marine Biology and Coastal Research, University of South Carolina. Projects: 1) Long Term Ecological Research Project, modelling and data synthesis (NSF Grant, H. McKellar, Co-PI); 2) Bly Creek Project, field data collection, data synthesis, and modelling (NSF Grant, H. McKellar, Co-PI).
- 1983-1985 Field projects quantifying total community respiration in a saltmarsh water column, and benthic advection to saltmarsh tidal creeks.
- 1984 Teaching Assistant: Marine Science Program, University of South Carolina. Course taught: Introductory Marine Science.
- 1985-1989 Graduate Research Assistant, Center for Wetland Resources, Louisiana State University. Projects: 1) Carbon and nitrogen cycling in the Barataria Basin, LA (NSF Grant, J. Day, Co-PI); 2) Carbon, nitrogen, and phosphorus exchanges in the Fourleague Bay Estuary, LA (Seagrant, J. Day, Co-PI); 3) Nutrient fluxes in mangrove wetlands (AID Grant, R. Twilley, PI); 4) Nutrient dynamics and exchanges on irregularly flooded seagrass banks (National Audubon Society Grant, G. Powell, Co-PI).
- 1989 Research Associate IV, Coastal Ecology Institute, Louisiana State University. Data synthesis and analysis, report preparation for the Pearl River Cumulative Impacts Project. J.G. Gosselink, supervisor.
- 1989-1992 Assistant Research Professor, Baruch Marine Lab, University of South Carolina. Ecosystems and landscape ecology, estuarine ecology, modelling coastal landscape dynamics (NSF Grant, F. Sklar, Co-PI).
- 1989-present Research Associate, Baruch Institute, University of South Carolina.
- 1991-92 Academic Seat, South Carolina Governor's Wetlands Advisory Committee.
- 1991-1994 Adjunct Professor and Visiting Instructor, Graduate Program in Marine Biology, Grice Marine Lab, College of Charleston. Course taught: BIO 502, Coastal Ecosystems and Modelling.
- 1992-1994 Research Ecologist, National Marine Fisheries Service, Southeast Fisheries Center, Galveston Lab. Ecosystems and landscape ecology, spatial analysis of fisheries data, ecological synthesis, modelling aquatic ecosystem and landscape dynamics.

1993-1996	Adjunct Professor, Department of Wildlife and Fisheries Sciences, Texas A&M University. Course taught: WFSC 689-MARB 489, Coastal Ecosystems and Modelling.
1993-1996	Visiting Professor and Instructor, Department of Marine Biology, Texas A&M University at Galveston. Course taught: MARB 425, Marine Ecology.
1993	Chairperson, Equal Employment Opportunities Committee, Southeast Fishery Science Center, NOAA.
1994-1999	Assistant Professor, Department of Biological Sciences and SERP, Florida International University, Miami, FL.
1999-present	Associate Professor, Department of Biological Sciences and SERC, Florida International University, Miami, FL.
1994-1995	President, Gulf Estuarine Research Society.
1996-1997	Past President, Gulf Estuarine Research Society
1994-1995	Executive Board Member, Estuarine Research Federation.
1994-1998	Associate Editor for Ecosystems, <u>Estuaries</u> .
1995-1999	Editorial Board Member, <u>Mangroves and Saltmarshes</u> .
2000-present	Editorial Board Member, <u>Wetland Ecology & Management</u>
2000-present	Editorial Board Member, <u>Freshwater Systems</u>
2000-present	Lead Principal Investigator, Florida Coastal Everglades Long-Term Ecological Research Program (FCE LTER)
2002-present	Executive Committee Member, LTER Network

HONORS, AWARDS, AND POSITIONS:

1976	Eagle Scout Award, Boy Scouts of America
1982	Undergraduate Research Grant, Department of Biology, University of Virginia
1985	Elected, Sigma Xi Scientific Research Society
1985	Recipient of 4-year Alumni Federation Fellowship, Louisiana State University Alumni Federation
1987	Elected Co-President, Louisiana State University Student Chapter, American Water Resources Association
1987	Student Presentation Award, Ninth Biennial Estuarine Research Federation Meetings
1989	Student Presentation Award, Gulf Estuarine Research Society, Spring Meeting
1989	Student Travel Award, American Society of Limnology and Oceanography, Spring Meeting
1989	Student Travel Award, Estuarine Research Federation, Tenth Biennial Meetings
1989	Lipsey Award for Excellence in Marine Science, Department of Marine Sciences, Louisiana State University, Baton Rouge, LA.
1993-94	Chair, Committee on Equal Employment and Workplace Diversity, Galveston Laboratory, NMFS.
1994-95	President, Gulf Estuarine Research Society. Elected by membership to 2-year term.
2004	FIU University Award for Excellence in Research

PROFESSIONAL AFFILIATIONS:

Estuarine Research Federation
 Gulf Estuarine Research Society
 Ecological Society of America
 Society for Wetland Scientists
 American Society of Limnology and Oceanography
 International Association of Landscape Ecology

GRANTS FUNDED:

- Salt marsh geomorphology and ecological development: Influence upon habitat linkages within and across ecosystem boundaries. NOAA Coastal Ocean Program. April, 1994 - March 1997. \$35,000 to Wetland Ecosystems Ecology Lab (FIU); total of \$289,000 with E.Koepfler, CCU.
- Numerical interpretation of Class III narrative nutrient water quality criteria for Everglades Wetlands. ENP, USACOE, SFWMD. January 1996 - December 2002. \$510,000 to Wetland Ecosystems Ecology Lab (FIU); total of \$4,600,000 with R.Jones and J.Trexler, FIU.
- Nutrient exchange between Florida Bay and the Everglades' salinity transition zone. SFWMD. August 1995 - December 1998. \$223,000 to Wetland Ecosystems Ecology Lab (FIU); total of \$560,000 with J.Day, LSU.
- Investigating ecosystem development in restored HID areas: Techniques and approaches that enhance coordination with other ENP research efforts. ENP. May 1996 - May 1997. 14,275 to Wetland Ecosystems Ecology Lab (FIU).
- Effect of modified water deliveries in the C-111 canal basin on the Everglades wetland transition zone: A pilot study for pre-levée removal analysis. CES-FAU. September - December 1997. \$21,750 to Wetland Ecosystems Ecology Lab (FIU).
- The impact of accelerated sea level rise on nutrient cycling and productivity in karst and deltaic ecosystems in the Gulf of Mexico and Caribbean area: Ecological and socio-economic implications. NSF-IAI. December 1997-November 1999. \$0 to Wetland Ecosystems Ecology Lab (FIU); total of \$130,000 with J.Day, LSU.
- The effects of modified water delivery in the C-111 canal basin on the wetland transition zone: Ecological effects of changes in marsh inundation regimes. SFWMD. January 1998 - December 2001. \$330,000 to Wetland Ecosystems Ecology Lab (FIU).
- Using transect sampling to relate a phosphorus addition flume study in Shark River Slough to long-term water quality impacts in Everglades National Park Marshes. ENP. October 1998 - May 2000. \$255,000 to Wetland Ecosystems Ecology Lab (FIU) with J.Richards and J.Trexler (DBS), and R.Jones, C.Buzzelli, E.Gaiser, and L.Scinto (SERP).
- The effects of modified water delivery in the Southern Everglades: Integrating Taylor Slough and the C-111 ENP Panhandle regions. SFWMD. January 1999 - September 2001. \$390,000 to Wetland Ecosystems Ecology Lab (FIU).
- Nutrient exchange between Florida Bay and the Everglades' salinity transition zone - Phase II. SFWMD. December 1998 - September 2001. \$161,400 to Wetland Ecosystems Ecology Lab (FIU); total of \$450,000 with J.Day, LSU.
- Coastal Oligotrophic Ecosystems Research - The Coastal Everglades (COERCE LTER). National Science Foundation. May 2000 - April 2006. \$4,200,000.
- LTER Research Experience for Undergraduates Supplement to the FCE LTER. National Science Foundation. June 2000. \$19275
- LTER Supplemental funding for the FCE Caribbean Initiative International LTER Collaborative Workshop, November 2000. \$14000.
- LTER Supplemental funding - REU 2001, Schoolyard LTER 2001, Supplemental Equipment, NSF. April 2001.\$55000.
- Southern Everglades Integrated Monitoring and Science Program: An LTER Partnership, SFWMD. June 2001 - May 2004. \$926,000.
- Documenting the importance of water flow to Everglades landscape structure and sediment transport in ENP, September 2001 - August 2003. \$560,000.
- LTER Supplemental funding for the FCE Caribbean Initiative 2nd International LTER Collaborative Workshop, March 2002. \$5000.
- LTER Supplemental funding - REU 2002, Schoolyard LTER 2002, Supplemental Equipment, NSF. April 2002.\$52000.
- Southern Everglades Integrated Monitoring and Science Program: An LTER Partnership, ENP. September 2002 - August 2004. \$300,000.
- LTER Supplemental funding - REU 2003, Schoolyard LTER 2003, Supplemental Equipment, NSF. April 2003.\$51,996.
- LTER Supplemental funding - EdEn Venture Environmental Education Collaboration with Everglades National Park, NSF. July 2003. \$62,500.
- LTER Supplemental funding - REU 2004, RET 2004, Schoolyard LTER 2004, Supplemental Equipment, NSF. June 2004, \$73,000.
- LTER Supplemental funding - LTER Affiliated Student Group Integration Workshop. June 2004, \$44,000.
- Preparing the LTER Network for collaborative science, education and synthesis: A planning proposal. NSF, Co-PI with J.Gosz, S.Collins, B.Benson, and A.Whitmer. \$1,023,151. September 2004 - August 2006.
- Monitoring for potential water quality impacts along the eastern boundary of ENP, including Taylor Slough. ENP-CESI. \$720,000. October 2004 - September 2007.
- Documenting the importance of water flow to Everglades landscape structure and sediment transport in ENP. ENP-CESI. \$414,000. January 2005 - December 2007.
- Responses of mangroves to regional environmental change. ENP-CESI Co-PI with J.Fuentes, V.Engel, and J.Zieman. \$155,000. October 2004 - September 2006.
- Understanding *Cladium jamaicense* dynamics over the last century in ENP using simulating modeling and paleoecological data. ENP-CESI Co-PI with C.Saunders, W. Anderson, J. Lynch, and R. Jaffe. \$130,000. October 2004 - September 2007.

STUDENTS ADVISED:

Matthew Baber, Ph.D. Candidate (**advisor**), Florida International University. **Ph.D. awarded 4/01**
 Jennifer Cutler, MS (**advisor**), Florida International University. **MS awarded 4/98.**
 Susan Dailey, Ph.D. Candidate (**advisor**), Florida International University. **Ph.D. awarded 12/00**
 Robert Daoust, MS (**advisor**), Florida International University. **MS awarded 4/98.**
 Steven Davis, Ph.D. Candidate (**advisor**), Florida International University. **Ph.D. awarded 8/99**
 Tiffany Gann, MS (**advisor**), Florida International University. **MS awarded 12/01**
 Tiffany Gann, PhD (**advisor**), Florida International University.
 Patrick Gibson, MS (**advisor, with J. Boyer**), Florida International University
 David Iwaniec, MS (**advisor**), Florida International University
 Greg Juszli, MS (**advisor**), Florida International University
 Nicholas Oehm, MS (**advisor**), Florida International University. **MS awarded 4/98.**
 Frank Parker, MS (**advisor**), Florida International University. **MS awarded 8/00.**
 Gustavo Rubio, MS (**advisor**), Florida International University **MS awarded 12/03.**
 Chris Stevenson, MS (**advisor**), Florida International University. **MS awarded 8/01**
 Adam Wood, MS (**advisor**), Florida International University
 Kathy Worley, MS (**advisor**), Florida International University.
 Jeffrey Wozniak, Ph.D. (**advisor**), Florida International University
 Jeffrey Absten, MS Candidate (on committee), Florida International University
 Lisa Borgia, Ph.D. Candidate (on committee), Florida International University **MS awarded 12/99**
 Carlo Calandriello, MS Candidate (on committee), Florida International University **MS awarded 12/99**
 Alessandro Catenazzi, Ph.D. Candidate (on committee), Florida International University
 Braxton Davis, MS (on committee), Florida International University. **MS awarded 8/98**
 Kate Davis, MS (on committee), Florida International University. **MS awarded 12/96**
 Chris Farrell, MS (on committee), Florida International University. **MS awarded 8/98**
 Andrew Gottlieb, Ph.D. (on committee), Florida International University. **Ph.D. awarded 5/03**
 David Green, MS (on committee), Florida International University
 Adrian Jelensky, MS (on committee), Florida International University, **MS awarded 8/99**
 Mac Kobza , MS (on committee), Florida International University, **MS awarded 4/01**
 Josette La Hee, PhD (on committee), Florida International University
 Zailo Leite, MS (on committee), Florida International University
 Shawn Liston, MS (on committee), Florida International University
 Regina Lynch, PhD (on committee), Florida International University
 George Meichel, PhD (on committee), Florida International University
 Lianne Miller-Rutten, MS (on committee), Florida International University, **MS awarded 12/02**
 Flavio Moreno, PhD (on committee), Florida International University
 Javier Pagan, MS (on committee), Florida International University **MS awarded 12/00.**
 Eric Pop, MS (on committee), Florida International University. **MS awarded 12/97**
 Sergio Ruiz, Ph.D. (on committee), Florida International University.
 Jill Ryder, MS (on committee), Florida International University **MS awarded 8/03**
 Jay Prakash Sah, Ph.D. Candidate (on committee), Florida International University **Ph.D. awarded 8/03**
 Jorge Schmidt - MS, History Department (on committee), Florida International University
 Gregory Starr, MS (on committee), Florida International University. **MS awarded 4/98**
 Maureen Sullivan, MS (on committee), Florida International University. **MS awarded 8/97**
 Ryan Taylor, MS (on committee), Florida International University **MS awarded 5/99**
 Jim Thompson, MS (on committee), Florida International University
 Christina Ugarte, PhD (on committee), Florida International University **Ph.D. awarded 5/04**
 Will Van Gelder, MS (on committee), Florida International University **MS awarded 12/00**
 Lindsay Waggoner , MS (on committee), Florida International University
 Kevin Whelan, Ph.D. Candidate (on committee), Florida International University
 Jade Williams, MS (on committee), Florida International University **MS awarded 5/04**
 Mark Zucker, MS (on committee), Florida International University **M.S. awarded 12/03**
 Chris Buzzelli, Ph.D. (on committee), Virginia Institute of Marine Science, College of William and Mary. **Ph.D. awarded 8/96**
 Patricia Crotwell, MS (on committee), Texas A&M University. **MS awarded 8/96**
 Timothy Delaney, MS (on committee), Texas A&M University. **MS awarded 12/94**

UNIVERSITY-LEVEL COURSES TAUGHT:

- A. Undergraduate level: Ecology (5 times), Ecology Lab (6 times), Marine Ecology (3 times), Marine Ecology Lab (2 times), Undergraduate Seminar (once), Research in Tropical Ecosystems (2 times)
- B. Graduate level: Coastal Ecosystems and Modelling (3 times), Modelling Biological Systems (2), Advanced Ecology - Communities and Ecosystems (5 times), Spatial Analysis and GIS (1 time), Marine Ecology (1 time), Introduction to Biological Research (1 time)

INVITED/THEMATIC PAPERS PRESENTED:

- 1985 Nutrient variability and subsystem interactions in a southeastern salt marsh. 8th Biennial Meeting, Estuarine Research Federation, Hanover, NH.
- 1988 Assessment of cumulative impacts in forested wetlands: The Tensas Basin, LA. National Association of Environmental Professionals, Annual Meeting, Orlando, FL.
- 1988 A strategy for quantifying nutrient and materials fluxes in irregularly flooded brackish marshes: Examples from two Louisiana estuaries. 9th Annual Meeting, Society of Wetland Scientists, Washington, D.C.
- 1988 A method for measuring nutrient and material exchanges in the marshes of Louisiana's Gulf coast estuaries. American Water Resources Association, Baton Rouge, LA.
- 1989 The great wetland flux contest: Comparing exchanges of nutrients and materials on intertidal seagrass banks and marshes. Department of Marine Sciences, Louisiana State University, Baton Rouge, LA.
- 1989 Marsh-water column interactions in two Louisiana estuaries: Flux measurements and conceptual implications. University of Georgia Marine Institute, Sapelo Island, GA.
- 1989 Nitrogen exchange processes in forested and coastal wetlands. Division of Pinelands Research, Rutgers University, Camden, NJ.
- 1989 The Chesapeake: An estuary in your back yard. Greater Northern Virginia Kiwanis Club, Annandale, VA.
- 1991 Using landscape level resource management and cumulative impacts strategies to regulate South Carolina's wetland resource. Governor's Wetlands Advisory Committee, South Carolina Department of Health and Environmental Control.
- 1991 A comparison of landscape-level aquatic patterns and water column processes in two estuaries with markedly different watershed characteristics. 11th Biennial International Estuarine Research Federation Conference, San Francisco, CA.
- 1991 Spatial variability in short-term sediment flux in a southeastern Georgia salt marsh estuary. Coastal Wetland Ecology and Management Symposium, New Orleans, LA.
- 1992 Spatial variability and the question of scale in estuarine ecosystems and coastal landscapes. Invited Presentation, Department of Environmental Sciences, University of Virginia, Charlottesville, VA.
- 1992 Biotic and abiotic factors relating pattern and process in wetland ecosystems and coastal landscapes. Department of Environmental Sciences and Engineering, University of North Carolina, Chapel Hill, NC.
- 1992 Interactions between abiotic development and biotic maturation in transgressive wetland ecosystems and coastal landscapes. Institute of Marine Sciences, University of North Carolina, Morehead City, NC.
- 1992 A review of marsh-water column interactions in wetlands along the U.S. Gulf of Mexico. INTECOL's 4th Annual International Wetlands Conference, Columbus, OH.
- 1992 Interactions between abiotic development and biotic maturation in transgressive wetland ecosystems and coastal landscapes. Smithsonian Environmental Research Center, Edgewater, MD.
- 1993 Coupling remote sensing, GIS, and spatial modelling to address ecosystems-scale fishery questions - A conceptual approach. Ninth Annual Workshop on Remote Sensing and GIS for Coastal Management in Louisiana, Lafayette, LA.
- 1993 Subsystem interactions in estuarine ecosystems and coastal landscapes. Department of Biology, University of Southwestern Louisiana, Lafayette, LA.
- 1993 The importance of tidal range and geologic age as controllers of marsh-water column interactions. 12th Biennial International Estuarine Research Federation Conference, Hilton Head, SC.
- 1993 Habitat interactions in salt marsh estuaries and coastal landscapes. Skidaway Institute of Oceanography, University of Georgia, Savannah, GA.
- 1994 Subsystem interactions in salt marsh estuaries and coastal landscapes. University of Texas Marine Science Institute, Port Aransas, TX.
- 1994 Measuring materials exchanges on intertidal seagrass banks in Florida Bay using throughflow flumes. American Society of Limnology and Oceanography, Miami, FL.
- 1994 Successional development of wetland ecosystems in transgressive coastal landscapes. Department of Biology, University of Miami, Miami, FL.
- 1994 The successional evolution of estuarine wetlands in transgressive coastal settings. Research Lab Seminar, Fairchild Tropical Garden, Miami, FL.
- 1994 Statistical treatment of scale-dependent aquatic transect data. Everglades Research Group, South Florida Water Management District, West Palm Beach, FL.
- 1995 Interactions of structure and function in the development of wetland ecosystems. Tropical Research and Education Center, Institute of Food and Agricultural Sciences, University of Florida, Homestead, FL.
- 1995 Nutrient exchange between Florida Bay and its salinity transition zone. Everglades Research Group, South Florida Water Management District, West Palm Beach, FL.
- 1996 Everglades research pertinent to ecological modelling efforts in south Florida. ATLSS-ELM Modeling Coordination Workshop, South Florida Water Management District, West Palm Beach, FL.
- 1996 Nutrient processing and exchange in northern Florida Bay mangrove forests. Third Workshop on South Florida Nutrient Dynamics, Key Largo, FL.
- 1996 Nutrient transformations and flux in the mangrove forests of Florida Bay. Invited Dean's Seminar, Virginia Institute of Marine Science, College of William and Mary, Yorktown, VA.

- 1996 The ecological implications of water management policies along the Everglades-Florida Bay margin. Invited Seminar, FIU Graduate Environmental Engineering Seminar Series.
- 1996 Wetland-water column interactions and the biogeochemistry of estuary-watershed coupling around the Gulf of Mexico. Invited seminar, Workshop for Authors, Biogeochemistry of Gulf of Mexico Estuaries, Louisiana Universities Marine Consortium, Cocodrie, LA.
- 1996 Nutrient exchange between Florida Bay and the Everglades transition zone. 1996 Florida Bay Science Conference, Key Largo, FL.
- 1997 Data synthesis, integration, and modelling in conjunction with the FIU phosphorus dosing flume study. 1997 Florida Dept. Environmental Protection Workshop on Class III Water Quality Criteria Research.
- 1997 Salinity controls on nutrient flux in south Florida mangrove wetlands. University of South Carolina Invited Marine Science Lecturer Series.
- 1997 Biogeochemical cycling in Everglades wetlands: Of marshes and Mangroves. SERP Brown Bag Seminar, Florida International University, Miami, FL.
- 1998 Water quality research in Everglades wetlands: A look at two ongoing projects. Department of Environmental Studies Graduate Seminar Series.
- 1998 An overview of research into water quality issues associated with Everglades restoration efforts. 11th Annual Science & Engineering Lecture Series, Jacksonville University.
- 1998 A review of marsh and estuarine flux studies from the south Atlantic and Gulf of Mexico. Concepts and Controversies in Tidal Marsh Ecology Conference, Vineland, NJ.
- 1998 Vascular plant and soil responses to biogeochemical changes in the water column of two Everglades wetlands. American Society of Limnology and Oceanography/Ecological Society of America, St. Louis, MO.
- 1999 Possible effects of global climate change on coastal wetlands of the Gulf of Mexico and Caribbean Sea. IAI Working Group on Coastal Effects of Global Change, Merida, Mexico.
- 1999 The influence of Southern Everglades wetlands on nutrient inputs to Florida Bay. Florida Bay Science Conference, Key Largo, FL.
- 2000 Regional Controls of Population and Ecosystem Dynamics in an Oligotrophic Wetland-dominated Coastal Landscape - The New Florida Coastal Everglades LTER Project. LTER All Scientists Meeting, Snowbird, UT.
- 2000 The history of hydrologic modifications in south Florida. LTER All Scientists Meeting, Snowbird, UT.
- 2000 Ecosystem-level responses to increased freshwater inputs in the C-111 basin of the southern Everglades. SFWMD Research Progress Seminar.
- 2000 Regional controls of population and ecosystem dynamics in an oligotrophic wetland-dominated coastal landscape - Introducing a New Long Term Ecological Research (LTER) project in the Coastal Everglades. CETroB Symposium, Miami FL.
- 2000 Introducing a New Long Term Ecological Research (LTER) project in the Coastal Everglades. LTER Network Office Seminar, Albuquerque, NM.
- 2002 Introducing the Florida Coastal Everglades LTER Program”, Fairchild Tropical Garden Research Seminar, Miami, FL.
- 2002 Introducing the Florida Coastal Everglades LTER Program with a focus on freshwater marsh primary productivity and water quality dynamics”, Department of Biology and National Wetlands Research Center, Lafayette, LA.
- 2002 An LTER-based multidisciplinary investigation of how water flow and sediment transport relate to wetland processes and Everglades Restoration. American Society of Limnology & Oceanography Plenary/Tutorial presentation, Victoria, BC, Canada.
- 2002 Introducing the Florida Coastal Everglades LTER Program with a focus on freshwater marsh primary productivity and water quality dynamics”, Department of Environmental Sciences, University of Virginia, Charlottesville, VA.
- 2002 How water flow relates to wetland processes and Everglades restoration, or “getting the water really right” in the river of grass. Society of Wetland Scientists Special Symposium, Gainesville, FL.
- 2003 Relating water flow to wetland processes and Everglades restoration in the River of Grass. Dept. Biology, University of Miami, Miami, FL.
- 2003 Relating water flow to wetland processes and Everglades restoration, or “getting the water really right” in the river of grass. IFAS, University of Florida, Homestead, FL.
- 2003 Ecological and hydrologic sciences meet socio-economics in the restoration of the Everglades. LTER Network Mini-Symposium, National Science Foundation Headquarters, Arlington, VA.
- 2003 Connecting Florida Bay with the upstream landscape via the FCE LTER Program. Florida Bay-GEER Conference, Tampa FL.
- 2003 Connecting the Everglades with the Gulf of Mexico: What we’ve learned from the FCE LTER Program. Society of Wetland Scientists Conference, New Orleans, LA.
- 2003 Coastal ecological research in oligotrophic upside-down estuaries: the FCE LTER Program. Virginia Institute of Marine Science, Gloucester Point, VA.
- 2004 Factors Controlling Ecosystem Productivity and Land-Ocean Interactions in Oligotrophic Upside-down Estuaries of the Florida Everglades. American Society of Limnology & Oceanography, Honolulu, HI.
- 2004 Factors Controlling Ecosystem Productivity and Land-Ocean Interactions in Oligotrophic Upside-down Estuaries of the Florida Everglades. Center for Marine Sciences, University of North Carolina-Wilmington.
- 2004 Freshwater supply by the Everglades as a critical ecosystem service at the FCE LTER. NCEAS Ecosystem Services Working Group, Santa Barbara CA.

- 2004 Using long-term data to relate environmental drivers to ecological process: Case studies from the Florida Coastal Everglades LTER, Harvard Forest, Cambridge MA.

PAPERS PRESENTED:

- 1983 The effects of pH on survivorship and growth rate in the fingernail clam *Musculium partumeium* (Say) (Bivalvia: Pisidiidae), Virginia Academy of Science Meeting, Fairfax, VA.
- 1984 A simulation model of salt marsh water column dynamics, Southeastern Estuarine Research Society Meeting , Beaufort, SC.
- 1984 Data synthesis and preliminary results from a model of salt marsh water column dynamics, Long Term Ecological Research Site Conference, Georgetown, SC.
- 1985 Subtidal advective water flux as a potentially important nutrient input to southeastern salt marsh estuaries, 40th Annual Meeting, American Society of Limnology and Oceanography, Minneapolis, MN.
- 1986 The use of habitat-specific simulation models of estuarine nitrogen cycling for ecosystem management in the Mississippi Deltaic Plain. 10th Annual Meeting, The Coastal Society, New Orleans, LA.
- 1987 Primary production and marsh-water column exchanges along the salinity gradients of two Louisiana estuaries. 9th Biennial Meeting, Estuarine Research Federation Conference, New Orleans, LA.
- 1987 A method for directly quantifying nutrient and material exchanges between wetlands and the water column in microtidal Gulf Coast estuaries. Gulf Estuarine Research Society, 9th Biennial Meeting, Estuarine Research Federation, New Orleans, LA.
- 1988 Cumulative impact assessment in bottomlands of the Tensas Basin, LA: Hydrologic and water quality changes related to forest clearing. Int. Assoc. Landscape Ecology, Annual Meeting, Albuquerque, NM.
- 1988 Marsh creation in coastal Louisiana using sediment fences: Project design and preliminary results. 9th Annual Meeting, Society of Wetland Scientists, Washington, D.C.
- 1989 Nutrient exchange dynamics on a regularly exposed intertidal seagrass bank in Florida Bay, FL. Spring Meeting, Gulf Estuarine Research Society, Cocodrie, LA.
- 1989 Relating ephemeral wetland loss in Louisiana estuaries to periodic climatological forcing by El Niño-Southern Oscillation events. Annual Meeting, American Society of Limnology and Oceanography, Fairbanks, AL.
- 1989 Water levels and wetland loss: Long-term functional losses related to "habitat dilution" and short-term "ephemeral" losses related to environmental forcing. 10th Biennial International Estuarine Research Federation Conference, Baltimore, MD.
- 1989 Intertidal seagrass banks as critical estuarine habitat: Evidence from a nutrient exchange study in Florida Bay, FL. 10th Biennial International Estuarine Research Federation Conference, Baltimore, MD.
- 1990 A new design for relating landscape-level pattern and ecosystem processes using remotely sensed data and simulation models. Annual Meeting, American Society of Limnology and Oceanography, Williamsburg, VA.
- 1990 Pattern and process at the landscape level are detected by simultaneous analysis across both spatial and temporal scales. Fall Meeting, Southeastern Estuarine Research Society, Jekyll Island, GA.
- 1990 Examining subsystem interactions in a Southeastern salt marsh estuary using a dynamic budget model. Long Term Ecological Research Special Topics seminar, Columbia, SC.
- 1990 A technique for simultaneous detection of spatial and temporal variability at the landscape level. Special seminar, Graduate Program in Marine Biology, College of Charleston, Charleston, SC.
- 1991 Generating hypotheses about a salt marsh estuarine ecosystem using a dynamic nutrient budget model. Spring Meeting, Southeastern Estuarine Research Society, Gulf Breeze, FL.
- 1991 Distinguishing spatial and temporal variability in aquatic transect data using a Variable Resolution Pattern Similarity Test. International Association of Landscape Ecology World Congress 1991, Ottawa, Canada.
- 1991 Spatial variability in marsh-open water interactions in a southeastern Georgia salt marsh estuary. 11th Biennial International Estuarine Research Federation Conference, San Francisco, CA.
- 1992 Spatial and temporal variability in long-term sediment elevation changes in three mid-Atlantic estuaries. Southeastern Estuarine Research Society and Atlantic Estuarine Research Society Joint Conference, Topsail Beach, NC.
- 1993 Geomorphology and subsystem interactions in a transgressive salt marsh. American Society of Limnology & Oceanography and Society of Wetland Scientists 1993 Annual Meeting, Edmonton, Alberta, Canada.
- 1995 Relating Structure and Function Across Spatial Scales in Estuarine Ecosystems. Gulf Estuarine Research Society, Lafayette, LA.
- 1995 Using multiple spatial indices to relate structure and function in estuarine ecosystems. 13th Biennial International Estuarine Research Federation Conference, Corpus Christi, TX.
- 1997 Salinity and organic matter transformations as controls on wetland-water column interactions in a south Florida mangrove forest. Gulf Estuarine Research Society, Ocean Springs, MS.
- 1997 Quantifying the effects of low-level nutrient enrichment on pristine Everglades wetlands *in situ* flumes and phosphorus dosing. Ecological Society of America, Albuquerque, NM.
- 1997 The exchange of nutrients and materials at the prop root-water interface in red mangroves. Estuarine Research Federation, Providence, RI.
- 1998 How freshwater Everglades wetlands mediate changes in water flow and nutrient loadings to the Florida Bay estuary. Gulf Estuarine Research Society, Galveston TX.
- 1999 How freshwater Everglades wetlands mediate the quality of recently enhanced water inflows to the Florida Bay estuary. Gulf Estuarine Research Society, Baton Rouge, LA.

- 1999 Quantifying the effects of enhanced water inflows on wetlands throughout the Southern Everglades. Wetland Biogeochemistry Symposium, Ft. Lauderdale, FL.
- 2000 Regional Controls of Population and Ecosystem Dynamics in an Oligotrophic Wetland-dominated Coastal Landscape - Introducing a New Long Term Ecological Research (LTER) project in the Coastal Everglades, International Association of Landscape Ecology, Ft.Lauderdale, FL.
- 2000 Ecosystem-level effects of enhancing water inflows to wetlands of the Southern Everglades. INTECOL International Wetlands Conference, Quebec City, Quebec, Canada.
- 2000 Regional Controls of Population and Ecosystem Dynamics in an Oligotrophic Wetland-dominated Coastal Landscape - Introducing a New Long Term Ecological Research (LTER) project in the Coastal Everglades. Greater Everglades Ecosystem Restoration Symposium, Naples, FL.
- 2001 Spatial and temporal variability in nutrient loading and exchanges in a hydrologically restored Southern Everglades marsh. Estuarine Research Federation, St.Petersburg, FL.
- 2002 Isolating biogeochemical and hydrologic effects of increasing freshwater inputs to Southern Everglades wetlands using long-term records of sawgrass productivity. Ecological Society of America, Tucson AZ.
- 2003 Relating water flow to wetland processes and Everglades Restoration: Getting the water REALLY right in the River of Grass. GEER Conference, Tampa FL.
- 2003 Using the existing US LTER Network to promote scientific collaboration and cooperation across the Caribbean: The FCE LTER Caribbean Initiative. Association of Caribbean Marine Labs Conference, Port of Spain, Trinidad.
- 2004 How hydrologic restoration may affect the charismatic macrophyte of the Everglades (sawgrass). INTECOL Wetlands Conference, Utrecht, The Netherlands.
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