

RICHARD STYLES

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Department of Geological Sciences, and
Marine Science Program
University of South Carolina
701 Sumter Street
Columbia, South Carolina 29208

Education:

- 1998 Ph.D. Oceanography, Rutgers, The State University of New Jersey, New Brunswick, New Jersey
1993 M.S. Physical Oceanography, Florida Institute of Technology, Melbourne, Florida
1991 B.S. Physics, University of Tennessee, Knoxville, Tennessee

Employment:

- 2002-Present Assistant Professor, University of South Carolina, Columbia, SC
2000-2001 Research Staff (Equivalent in Rank to Research Assistant Professor), Rutgers University, New Brunswick, NJ
1998-2000 Post Doctoral Research Assistant, Rutgers University, New Brunswick, NJ

Professional societies:

- 1994-Pres Member, American Geophysical Union
2005-Pres Member, American Society of Limnology and Oceanography
2005-Pres Member, Estuarine Research Federation
2006-Pres Member, Southeastern Estuarine Research Society

Peer Reviewed Publications:

*Denotes student authors

Elmore, A., R. Thunell, **R. Styles**, D. Black, R. Murray and N. Martinez, Quantifying the seasonal variations in fluvial and eolian sources of terrigenous material to Cariaco Basin, Venezuela, *Sedimentology* (submitted).

Styles, R. Flow and turbulence over an oyster reef bank, *Limnology and Oceanography*, (in revision).

*Traynum, S. and **R. Styles**, Exchange flow between two estuaries connected by a shallow tidal channel. *J. Coast. Res.*, (In press).

Styles, R. and C. Teague, Evaluation of a UHF Radar Surface Current Mapping System in an Intertidal Salt Marsh, *J. Atmos. and Oceanic Tech.-O*, (In press).

Brodie, R.J., **R. Styles**, S. Borgianini, J. Godley, and K. Butler: Larval mortality during export to the sea in the fiddler crab *Uca minax*, *Marine Biology*, doi:10.1007/s00227-007-0777-y (in press).

Torres, R. and **R. Styles**, 2007: Effects of topography on salt marsh currents, *J. Geophys. Res.*, 112, FO2023, doi:10.1029/2006JF000508.

*Traynum, S. and **R. Styles**, 2007: Flow, stress and sediment resuspension in a shallow tidal channel, *Estuaries and Coasts*, **30**, 94-101.

*Wargo, C. A. and **R. Styles**, 2007: Along channel flow and sediment dynamics at North Inlet, South Carolina. *Estuarine, Coastal and Shelf Science*, **71**, 669-682.

Styles, R., 2006: Application of a bottom boundary layer model in contrasting wave and current environments: Grays Harbor, Washington, *J. Waterway, Port, Coastal and Ocean Engineering*, **132**, 5, doi: 10.1061/(ASCE)0733-950X, 379-387.

Styles, R., 2006: Evaluation of a LISST in a stratified fluid. *Marine Geology*, **227**, 151-162.

Styles, R. and S. M. Glenn, 2005: Long-term sediment mobilization at a sandy inner shelf site, LEO-15, *J. Geophys. Res.*, **110**, C04S90, doi:10.1029/2003JC002175.

Styles, R. and S. M. Glenn, 2003: A theoretical investigation of bed form shapes. *Ocean Dynamics*, **53**, 278-287.

Styles, R. and S. M. Glenn, 2002: Modeling bottom roughness in the presence of wave-generated ripples. *J. Geophys. Res.*, **107**, 24-1 to 24-15.

Styles, R. and S. M. Glenn, 2000: Modeling stratified wave and current bottom boundary layers on the continental shelf. *J. Geophys. Res.*, **101**, 24,119-24,139.

Styles, R., 1996: Long-term variability of sea surface temperature and atmospheric pressure along the equatorial Pacific. *Bull. N. J. Acad. Sci.*, **41(1)**, 25-29.

Conference Proceedings and Technical Reports:

Teague, C. C., D. E. Barrick, P. Lilleboe, and **R. Styles**, 2006: UHF RiverSonde Operation in a Tidal Marsh, in Proceedings of the 2006 International Geoscience and Remote Sensing Symposium, Denver, IEEE, 3665-3667.

Helzel, T., D. Savidge, **R. Styles**, T. McKisseck, H. Bull, M. Kniephoff, S. Rehder, 2006: First results from long range WERA sites, Sixth International Workshop on Radiowave Oceanography, Hamburg, 9 pp.

Styles, R., and S. M. Glenn, 2003: Optimization of a combined wave and current algorithm for arbitrary bed roughness. Proceedings of the International Conference on Coastal Sediments

2003. CD-ROM Published by World Scientific Publishing Corp. and East Meets West Productions, Corpus Christi, Texas, USA. ISBN 981-238-422-7.

Styles, R. and S. M. Glenn, 2002: An optimized combined wave and current algorithm for arbitrary bed roughness. Boundary Layer Stress and Sediment Transport Laboratory, Dept. of Geological Sciences, University of South Carolina, Columbia, 34 pp.

Published Abstracts:

Styles, R., S.M. Glenn, E. Creed and L. Henderson, 1996: Monitoring bottom boundary layer processes with implications for sediment transport modeling. Published as a supplement to *Eos*, Transactions, AGU, **77**, Number 17, S148.

Styles, R. and S.M. Glenn, 1996: Modeling and observations of sediment transport events in the Middle Atlantic Bight. *Eighth International Conference on the Physics of Estuaries and Coastal Seas*, Netherlands Centre for Coastal Research, The Hague, 156.

Styles, R. and S.M. Glenn, 1996: Observations and modeling of sediment transport offshore New Jersey. Published as a supplement to *Eos*, Transactions, AGU, **77**, Number 46, F371.

Styles, R. and S. M. Glenn, 1998: Calibration of a continental shelf bottom boundary layer model with applications to sediment transport offshore of New Jersey. Published as a supplement to *Eos*, transactions, AGU, **79**, Number 45, F453.

Styles, R. and S. M. Glenn, 2000: Spatial distribution of bottom stress and sediment transport patterns over transitional bathymetry. Published as a supplement to *Eos*, transactions, AGU, **80**, Number 49, OS116.

Rankin, K., R. Chant, S. Glenn, M. Bruno, **R. Styles**, B. Fullerton, T. Herrington and R. Hires, 2001: Integrated collection of hydrodynamic and sediment/water quality data in NY/NJ Harbor. SETAC, Baltimore.

Chant, R., **R. Styles**, S. Glenn, K. Rankin, M. Bruno, R. Hires and T. Herrington, 2001: Circulation and mixing in a complex estuary: The transport and fate of suspended matter in NY-NJ Harbor. SETAC, Baltimore.

Styles, R., R. Chant S. Glenn, K. Rankin, A. Pence, P. Burke, T. Herrington and M. Bruno, 2001: Particle concentrations and size distributions: Implications for contaminant transport in NY-NJ Harbor. SETAC, Baltimore.

Styles, R., S. M. Glenn and P. Traykovski, 2002: An evaluation of the mass-balance equation for suspended sediments using an eddy diffusivity parameterization. Published as a supplement to *Eos*, transactions, AGU, 83, Number 4, OS175.

Haldeman, C. III, **R. Styles**, R. Chant, S. Glenn, K Rankin and M. Bruno, 2002: Particle transport observations in the New York-New Jersey Harbor. Published as a supplement to

Eos, transactions, AGU, 83, Number 4, OS55.

Hunter, E., R. Chant, **R. Styles**, S. Glenn, K. Rankin and M. Bruno, 2002: Circulation and mixing in a complex estuarine environment. Effects on the transport and fate of suspended matter. Published as a supplement to *Eos*, transactions, AGU, 83, Number 4, OS161.

Styles, R. and S. M. Glenn, 2002: A theoretical investigation of bed form shapes. *11th International Conference on the Physics of Estuaries and Coastal Seas*, Hamburg, 340-342.

Styles, R., D. Hooker, G. Voulgaris, Y. H. Kim, M. Goni and M. Cathey, 2003: Topographically-induced lateral variations in the salinity and current structure in Winyah Bay, SC, *Southeast Coastal Ocean Science Conference and Workshop*, Charleston.

Cathey, M., M. Goni, Y.H. Kim, **R. Styles**, G. Voulgaris, 2003: Sediment and organic carbon fluxes in an impacted estuary, Winyah Bay, SC: II. Chemical interactions. *Southeast Coastal Ocean Science Conference and Workshop*, Charleston.

Kim, Y. H., G. Voulgaris, **R. Styles**, M. Cathey, M. Goni, 2003: Sediment and organic carbon fluxes in an impacted estuary, Winyah Bay, SC: I. Physical conditions. *Southeast Coastal Ocean Science Conference and Workshop*, Charleston.

Styles, R. 2004: Applications of a bottom boundary layer model in contrasting wave and current environments, *Eos Trans. AGU*, 85, Ocean Sci. Meet. Suppl., Abstract OS52B-04.

*Hooker, D., **R. Styles**, S. Stancyk, L. Sautter and B. Helmuth, 2004: A comparison of the geostrophic balance and current measurements in the Gulf Stream. *Southeastern Ecology and Evolution Conference*, Georgia Institute of Technology, Atlanta, GA.

Styles, R. and R. Torres, 2004: Flow characteristics of adjacent tidal creek networks, Conference on Salt Marsh Geomorphology: Physical and Ecological effects on Landform, AGU Chapman Conference, Halifax.

Styles, R. and R. Torres, 2004: Morphological controls on marsh creek network flow patterns, *Eos Trans. AGU*, 85, Fall Meet. Suppl., Abstract F846.

*Hooker, D., **R. Styles**, S. Stancyk, L. Sautter and B. Helmuth, 2004: Long-term estimates of geostrophic transport in the Gulf Stream, *Eos Trans. AGU*, 85, Fall Meet. Suppl., Abstract F1017.

*Armstrong, S., E. B. Karabonov, **R. Styles**, V. Buchinskyi, D. F. Williams, Mo I. Kuzmin, 2004: Mass flux of water, sediments and chemical constituents to the Laptev Sea of the Russian Arctic via the Lena River, *Eos Trans. AGU*, 85, Fall Meet. Suppl., Abstract F468.

Torres, R. and **R. Styles**, 2005: Effects of Salt Marsh Topography on Tidal Creek Velocity, The 18th Biennial Conference of the Estuarine Research Federation, Norfolk, Conference Abstracts, p. 179.

*Traynum, S. and **R. Styles**, 2005: Sediment exchange near a tidal node, The 18th Biennial Conference of the Estuarine Research Federation, Norfolk, Conference Abstracts, p. 180.

Borgianini, S., *J. Jurisa, **R. Styles** and R. Brodie, 2006: A Model Describing the Dispersal Capabilities of Red-Jointed Fiddler Crab (*Uca minax* LeConte) Postlarvae in a River-Dominated Estuary. Society of Integrative and Comparative Biology, Orlando, Conference Abstracts.

*Jurisa, J., **R. Styles**, R. Brodie and S. Borgianini, 2006: Discharge, tidal propagation and currents near an upriver tidal boundary, *Eos Trans. AGU*, 87(36), Ocean Sci. Meet. Suppl., Abstract, OS35J-18.

*Traynum, S., **R. Styles** and H. Bull, 2006: Exchange flow characteristics between North Inlet and Winyah Bay as a function of wind, discharge and sea-level, *Eos Trans. AGU*, 87(36), Ocean Sci. Meet. Suppl., Abstract, OS53O-06.

Schuler, M., **R. Styles**, C. Teague, and D. Barrick 2006: Application of an HF Radar to an inter tidal salt marsh, *Eos Trans. AGU*, 88, Fall Meet. Suppl., Abstract F468.

Conference Presentations and Miscellaneous Seminars:

Styles, R., S.M. Glenn, 1995: Observations of a late summer mixing storm: Implications for sediment transport. Middle Atlantic Bight Physical Oceanography and Meteorology (MABPOM) Workshop, Stony Brook.

Styles, R., 1998: [Invited] A continental shelf bottom boundary layer model: Development, calibration and applications to sediment transport in the Middle Atlantic Bight, Coastal Research Center, U.S. Army Corps of Engineers, Vicksburg.

Styles, R., 1998: [Invited] A continental shelf bottom boundary layer model: Development, calibration and applications to sediment transport in the Middle Atlantic Bight, Stennis Space Center.

Styles, R. and S. M. Glenn, 2000: An optimized bottom stress module for ROMS. USGS Sediment Transport Modeling Workshop, Woods Hole.

Styles, R., 2000: Particle dynamics in a stratified estuary. Weekly Seminar Series, Institute of Marine and Coastal Sciences, Rutgers

Styles, R., 2002: Sedimentary hotspots and residual circulation patterns: Laying the foundation for contaminant transport modeling in Winyah Bay. EPSCoR Site Review, Columbia, South Carolina.

*Tapp, C. and **R. Styles**, 2003: Particle size distributions of bed sediments recovered from North Inlet, SC. Summer Program for Research Interns (SPRI), University of South Carolina,

Columbia.

Styles, R., 2003: [Invited] Long-term sediment transport at LEO-15. US Army Corps of Engineers, Waterways Experiment Station, Vicksburg.

Styles, R. 2005: [Invited] Evaluation of a LISST in a stratified environment: When light and salt don't mix. Coastal Carolina University, Conway.

*Traynum, S., **R. Styles** and S. Armstrong 2005: Mixing and sediment transport near a tidal node during high discharge conditions. Spring05, Discovery Day, University of South Carolina, Columbia.

*Traynum, S. and **R. Styles** 2006: Flow between two estuaries connected by tidal creeks and its response to coastal wind stress. Semiannual Meeting of the Southeastern Estuarine Research Society, Coastal Georgia Center, Savannah, p32.

Styles, R., M. Schuler, C. Teague and D. Barrick, 2007: Demonstration of a UHF Radar in a sinuous tidal channel. Semiannual Meeting of the Atlantic Estuarine Research Society & Southeastern Estuarine Research Society, North Carolina Aquarium, Pine Knoll Shores, p37.

Styles, R., 2007: [Invited] Evaluation of a LISST particle size analyzer in a stratified fluid. United States Naval Academy, Annapolis.

Borgianini, S. A., R. J. Brodie and **R. Styles**, 2007: Limitations on the dispersal of *Uca Uca minax* (LeConte, 1855) in a river-dominated estuary. Benthic Ecology Meeting, Georgia Tech, Atlanta.

Styles, R., M. Schuler, C. Teague and D. Barrick, 2007: Demonstration of a UHF Radar in a sinuous tidal channel. First Baruch Institute All-Scientist Research Symposium, Hobcaw House, Hobcaw Barony, Georgetown, p15.

Borgianini, S. A., R. J. Brodie and **R. Styles**, 2007: Limitations on the dispersal of *Uca Uca minax* (LeConte, 1855) in a river-dominated estuary. First baruch Institue All-Scientist Research Symposium, Hobcaw House, Hobcaw Barony, Georgetown, p5.

Styles, R. 2007: [Invited] Exchange flow between two estuaries connected by a shallow tidal channel. Old Dominion University, Norfolk.

Styles, R. 2007: [Invited] Exchange flow between two estuaries connected by a shallow tidal channel. East Carolina University, Greenville.

Styles, R. 2007: [Invited] Research requirements and monitoring technologies for coastal NC. UNC-Coastal Studies Institute, Maneo. Fluvial

Research and Educational Grants:

- M.S. Bruno, K.L. Rankin and T.O. Harrington (Stevens Institute of Technology) and S.M. Glenn, R. Chant and **R. Styles** (Rutgers University), 1998: Ambient monitoring of loadings to the Newark Bay complex and the Kills. New Jersey DEPE, \$52,360.
- M.S. Bruno, K.L. Rankin and T.O. Harrington (Stevens Institute of Technology) and S.M. Glenn, R. Chant and **R. Styles** (Rutgers University), 1999: Ambient monitoring of loadings to the Newark Bay complex and the Kills. New Jersey DEPE, \$421,996.
- R. Styles** and S. Glenn (Rutgers University), 2000-2002: An investigation of the validity of the stratified flow analogy for suspended sediments in combined wave and current flows. Middle Atlantic Bight, National Undersea Research Center, \$251,169.
- S.M. Glenn, R. Chant and **R. Styles**, 2000-2001: Ambient monitoring of loadings to the Newark Bay complex and the Kills. New Jersey DEPE, \$269,059.
- M. Goni, G. Voulgaris, J. Ferry and **R. Styles**, 2001-2003: A multidisciplinary approach to quantify and model the transport and deposition of organic pollutants in coastal environments. Environmental Protection Agency, \$374,520.
- R. Styles**, 2002-2004: An investigation of the validity of the stratified flow analogy for suspended sediments in combined wave and current flows. Rutgers/National Oceanographic and Atmospheric Administration, \$96,500.
- S. Stancyk, B. Helmuth, **R. Styles** and L. Sautter, 2003-2004: Benthic ecosystem characterization of the “Charleston Bump”: an integrated approach to exploring invertebrate diversity. National Oceanographic and Atmospheric Administration, Ocean Explorer Program, \$28,809.
- R. Styles**, 2004-2005: Measuring fluid pressure above and below the sediment-water interface. Sponsored Programs and Research, University of South Carolina Research Foundation, \$11,500.
- R. Styles** and T. Owens, 2004: Enhancement of information technology for the Geological Sciences undergraduate program, College of Science and Mathematics Computer Advisory Committee, \$ 4,000.
- M. Fletcher, G. Voulgaris, D. Porter and **R. Styles** (South Carolina PIs), 2004-2005: Southeast Atlantic Coastal Ocean Observing System (SEA-COOS) year 3, Office of Naval Research, \$5,263,999 (\$282,172 for Styles).
- R. Styles**, 2005: Enhancement of information technology for Marine Science undergraduate program and the Baruch Institute, College of Science and Mathematics Computer Advisory Committee, \$26,900.
- R. Styles** and R. Torres, 2005-2006: Evaluation of an HF Radar surface current mapping system in an inter-tidal salt marsh environment, Cooperative Institute for Coastal and Estuarine Environmental Technology (CICEET), \$24,953.
- M. Fletcher, G. Voulgaris, D. Porter and **R. Styles** (South Carolina PIs), 2005-2006: Southeast Atlantic Coastal Ocean Observing System (SEA-COOS) year 4, Office of Naval Research, \$4,700,000 (\$212,099 for Styles).
- M. Fletcher, G. Voulgaris, D. Porter and **R. Styles** (South Carolina PIs), 2005-2006: Southeast Atlantic Coastal Ocean Observing System (SEA-COOS) year 4 supplement, Office of Naval Research, \$5,500.
- R. Styles**, 2006: Enhancement of information technology for Marine Science undergraduate program, College of Arts and Sciences Computer Advisory Committee, \$11,300.
- R. Styles**, 2006: Edisto causeway project, National Oceanographic and Atmospheric Administration (NOAA) administered through South Carolina Department of Natural

Resources, \$10,500.

M. Fletcher, G. Voulgaris, D. Porter and **R. Styles** (South Carolina PIs), 2006-2007: Southeast Atlantic Coastal Ocean Observing System (SEA-COOS) year 5, Office of Naval Research, \$45,500.

R. Styles, G. Voulgaris, A. Yankovsky, and S. Bulusu, 2007: Acquisition of a long range HF radar surface current mapping system, Office of Research and Health Sciences, University of South Carolina, \$97,500.

Recognition:

- 2003 Nominated, Freshman Advocate, University of South Carolina
- 2003 Elected Faculty Member to the School of the Environment
- 2004 University of South Carolina School of the Environment Travel Award
- 2005 Anonymous recognition by USC graduates for significantly contributing to their success, Office of the President, Vice President for Student Affairs, and Dean of Students
- 2006 Anonymous recognition by USC graduates for significantly contributing to their success, Office of the President, Vice President for Student Affairs, and Dean of Students

Regional-National Workshops and Conferences:

- 2000 Turbulence Modeling, ONR, Seattle, WA
- 2001 Community Sediment Transport Modeling, USGS, Woods Hole, MA
- 2004 Coastal Benthic Exchange Dynamics (CBED), NSF-COOP, St. Petersburg, FL
- 2004 SEACOOS PI, August, 2004, Atlanta, GA
- 2004 SEACOOS Fall Workshop, Charleston, SC
- 2005 Wave measurement and forecasting in the SE US, Columbia, SC
- 2005 SEACOOS Summer Workshop, Jacksonville, FL
- 2005 SEACOOS Fall Workshop, Columbia, SC
- 2006 SEACOOS Fall Workshop, Jacksonville, FL
- 2006 SEACOORA Fall Workshop, Jacksonville, FL
- 2007 South Carolina HF Radar workshop, Pritchards Island, SC (Co-organizer)
- 2007 SEACOOS Fall Workshop, St Pete Beach, FL

Courses Taught:

- Spring 1999: Modeling Physical-Chemical-Biological Transport Processes in the Coastal Ocean, 16-712, Rutgers. (5-Graduate)
- Fall 2002: Ocean Data Analysis MSCI 205X (17-Undergraduate, 5-Graduate)
- Fall 2002: Independent Study GEOL 399 (1-Undergraduate)
- Spring 2003: Marine Hydrodynamics MSCI/GEOL 582 (2-Undergraduate, 7-Graduate)
- Spring 2003: Directed Individual Study GEOL 790 (2-Graduate)
- Fall 2003: Introduction to Oceanography (Honors) MSCI 101H (19-Undergraduate)
- Spring 2004: Ocean Data Analysis MSCI 305 (19-Undergraduate)
- Spring 2004: Directed Individual Studies MSCI 790 (1-Graduate)
- Spring 2004: Directed Individual Studies MSCI 399 (1-Undergraduate)
- May 2004: Field research for undergraduates MSCI 460 (4-Undergraduate)

Fall 2004: Introduction to Oceanography MSCI 101 (70-Undergraduate)
 Fall 2004: Directed Individual Studies MSCI 790 (1-Graduate)
 Spring 2005: Physical & Chemical Oceanography MSCI 312 (36-Undergraduate)
 Spring 2005: Directed Individual Studies MSCI 790 (1-Graduate)
 Spring 2005: Senior Thesis (Honors College) SCCC 499 (1-Undergraduate)
 Fall 2005: Physical Oceanography MSCI/GEOL 781 (10-Graduate)
 Fall 2005: Directed Individual Study MSCI 399 (1-Undergraduate)
 Spring 2006: Ocean Data Analysis MSCI 305 (11-Undergraduate)
 Spring 2006: Directed Individual Studies MSCI 399 (1-Undergraduate)
 Fall 2006: Marine Hydrodynamics MSCI/GEOL 582 (2-Undergraduate, 1-Graduate)
 Spring 2007: Ocean Data Analysis MSCI 305 (20-Undergraduate)
 Fall 2007: Physical Oceanography MSCI/GEOL 781 (15-Graduate)

Advisement:

Graduate Students:

2002-2004 Heather Holm, Member, MS
 2003-2004 Brandy Armstrong, Member, MS
 2004-2005 Aurora Elmore, Member, MS
 2004-2005 Glendon Hunsinger, Member, PhD
 2002-2005 Christopher Wargo, Advisor, MS
 2003-2005 Dara Hooker, Advisor, MS
 2002-2006 Yong Kim, Member, PhD
 2002-2006 Ben Gutierrez, Member, PhD
 2005-2007 Steven Traynum, Advisor, MS
 2004-Pres Straud Armstrong, Advisor, PhD
 2005-Pres Maruro Maza, Member, PhD
 2007-Pres Christopher Wright, Advisor, MS

Undergraduate Students:

2002-2003 Judah VanSyckel (USC Honors College), Undergraduate Research Assistant
 2004-2005 Steven Traynum (USC Honors College), Honors Thesis Advisor
 2003-2004 Kevin White, Undergraduate Research Assistant, Advisor
 2004-2006 Joseph Jurisa, Undergraduate Research Assistant, Advisor
 2004-2007 Chanda Cooper (USC Honors College), Independent Study
 2007-Pres Sean Kilgallin, Undergraduate Research Assistant

High School Students:

2003 Connor Tapp, High School Senior, South Carolina Governors School for Science, Advisor

Awards won by students under my supervision:

2004 Christopher Wargo, Taber Award for Outstanding Teaching
 2004 Dara Hooker, Inaugural Graduate Research Assistant Award, USC Graduate School
 2004 Kevin White, John Hodges Award

- 2005 Joseph Jurisa, College of Arts and Sciences, Rising Senior Award in Marine Science
- 2005 Joseph Jurisa, Howard Hughes Award
- 2005 Steven Traynum, USC Undergraduate Research Award, Earth Sciences Category 2nd Place
- 2005 Steven Traynum, John Hodges Award
- 2005 Chanda Cooper, Inaugural Ernest F. Hollings Undergraduate Scholar
- 2006 Joseph Jurisa, John Hodges Award
- 2007 Christopher Wright, John Hodges Award

University Committees:

- 2002 Graduate Studies, Geological Sciences, Member
- 2002 Computer, Geological Sciences, Member
- 2002 Graduate Studies, Marine Science, Member
- 2003 Undergraduate Studies, Geological Sciences, Member
- 2003 Computer, Geological Sciences, Member
- 2003 Graduate Studies, Marine Science, Member
- 2003 Biological Oceanographer Search Committee, Marine Science, Member
- 2004 Computer, Geological Sciences, Chair
- 2004 Undergraduate Studies, Geological Sciences, Member
- 2004 Graduate Studies, Marine Science, Member
- 2004 Information Technology, Marine Science, Chair
- 2004 Physical Oceanographer Search Committee, Marine Science, Member
- 2004 COSM Computer Committee, Marine Science Representative, Member
- 2005 Undergraduate Studies, Geological Sciences, Member
- 2005 Undergraduate Studies, Marine Science, Member
- 2005 Information Technology, Marine Science, Chair
- 2005 CAS Computer Committee, Marine Science Representative, Member
- 2006 Physical Oceanographer Search Committee, Marine Science, Member
- 2006 CAS Computer Committee, Marine Science Representative, Member
- 2006 Future Hires Committee, Marine Science, Member

University of South Carolina Service:

- 2002 Undergraduate Advisement for Marine Science, 8 students
- 2002 Freshman Advisement for Marine Science, 24 students
- 2002 USC Commencement Exercises, Participant
- 2002 Faculty Resource Board for MARSCI, The first online journal for undergraduate research, Faculty Advisor
- 2003 Science Judge, National Ocean Sciences Bowl
- 2003 16th Annual Showcase, Developed a wave tank to demonstrate density driven circulation patterns to Columbia area residence, Faculty Participant
- 2003 Undergraduate Advisement for Marine Science, 11 students
- 2003 USC Commencement Exercises, Participant
- 2003 Marine Science graduate student advisement sessions, Faculty Participant

- 2003 Faculty Resource Board for MARSCI, The first online journal for undergraduate research, Faculty Advisor
- 2004 Science Judge, National Ocean Sciences Bowl
- 2004 Interviewed 5 potential high school students interested in majoring in marine science.
- 2004 Undergraduate Advisement for Marine Science, 11 students
- 2004 17th Annual Showcase, Faculty Participant
- 2004 Solicited Marine Science Undergraduate Majors to provide testimonials on why they chose marine science as a major. Used as a recruiting tool for potential majors.
- 2004 Marine Science graduate student advisement sessions, Faculty Participant
- 2005 18th Annual Showcase, Faculty Participant
- 2005 Discovery Day, Faculty Mentor for Joe Jurisa
- 2006 Discovery Day, Faculty Mentor for Joe Jurisa
- 2007 Science Judge, National Ocean Sciences Bowl

Community Service:

- 2003 “A bumpy voyage ends” *The Post and Courier*, Charleston, SC, 14-August
- 2003 “The promise of deep-sea discovery”, *The Post and Courier*, Charleston, SC, 25-August.
- 2005 Advisor to the Southeastern Natural Science Academy. Devised measurement protocols for the Savannah Risk Flow Project and the Constructed Wetlands Optimization Study
- 2005 Advisor to SC Environmental Law Project. Provided estimates of exchange flow between a salt marsh and subtidal channel connected by a severely restrictive culvert.
- 2005 SEACOOS HF Radar Coordinating Committee, Member, Responsible for coordination of partner HF Radar Systems, evaluation of systems and providing a forum for information exchange on interoperability.
- 2005 Wave Working Group, Member, Goal is to investigate the effect of boat wake generated waves on estuarine shoreline erosion.
- 2006 Pritchards Island Advisory Board, Member.
- 2006 SEACOOS Project Interface Committee for Currents, Chair
- 2006 “Radar painting sharp pictures of ocean waves” *The Post and Courier*, Charleston, SC, 5-July
- 2006 “Radar monitors waves off South Carolina coast” *The State*, Columbia, SC, 5-July
- 2006 “Uninhabited island becomes high-tech. New coastal radar system makes Pritchards Island its new home” *Beaufort Gazette*, 5-October.
- 2007 Carolina HF Radar User Workshop, Co-Organizer, Pritchards Island, March.
- 2007 Radio interview describing coastal erosion in South Carolina, WVOC, Columbia, 30-August.
- 2007 “Finance might hurt USC system” *The State*, Columbia, SC, 4-September.