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OBJECTIVE

To promote public understanding of the importance and impacts of the biology, chemistry and physics of the environment.

EDUCATION

2006 **Ph.D. University of Georgia.** Department of Marine Sciences.
1998 **B.A. University of Virginia.** Department of Environmental Sciences.

PROFESSIONAL HISTORY AND AWARDS

2010-
2009- **Associate Managing Director.** Center for Dark Energy Biosphere Investigations.
Project Manager. DEBI Deep Biosphere Research Coordination Network.
University of Southern California. Los Angeles, CA.

2009 **Freelance Editor.** Compuscript Limited.
International Science Editing. Shannon, County Clare, Ireland.

2005-2008 **Post-Doctoral Associate.** Rutgers, The State University of New Jersey.
Institute of Marine and Coastal Sciences. New Brunswick, NJ.

2004-2005 **Teaching Assistant.** University of Georgia.
Department of Marine Sciences. Athens, GA.

2003-2004 **EPA Fellow.** Environmental Protection Agency.
National Network for Environmental Management Studies. Athens, GA.

1999-2000 **University of Georgia Fellow.** University of Georgia.
Department of Marine Sciences. Athens, GA.

1999 **Georgia Sea Grant Coastal Management Intern.** University of Georgia.
Department of Marine Sciences. Athens, GA.

1998-1999 **Teaching Assistant.** University of Georgia.
Department of Marine Sciences. Athens, GA.

1997 **NSF Research Experiences for Undergraduates Intern.**
Marine Biological Laboratory. Boston University Marine Program. Woods Hole, MA.

SCIENCE COMMUNICATION EXPERIENCE

Coordination of Scientific Interaction. Managed the NSF Research Coordination Network projects on denitrification (Rutgers University, 2005-2008) and the deep marine seafloor biosphere (University of Southern California, 2009-) to bring together scientists from a wide array of disciplines through networking, annual workshops, and online training.

Training of Scientists and Managers. Instructed participants from developing countries and countries with economies in transition in the use of spatially explicit, global GIS models of nutrient transport by rivers to coastal systems as part of a UNESCO-Intergovernmental Oceanographic Commission project (two week series in January and September 2006).

(continued)

SCIENCE COMMUNICATION EXPERIENCE (continued)

Presentation of Scientific Research. Presented in oral and poster sessions at national and international scientific meetings, including those of the American Society of Limnology and Oceanography, Estuarine Research Federation, and International Association of Ecology (approximately annually since 1997).

Mentoring of Undergraduate Interns. Developed the research experience and scientific reasoning in the field and laboratory of Chava Weitzman at Rutgers University (Summer 2007) and Ellen Fragaszy at the University of Georgia (Summer 2001).

Teaching of Undergraduate Students. Instructed lectures and laboratories for Physical Oceanography (Fall 1998), Biological Oceanography (Spring 1999), The Marine Environment (Fall 2004), and Biology of the Marine Environment (Spring 2005) at the University of Georgia.

Outreach to the Public. Mentored high school science teachers in the field and laboratory, and communicated with elementary school students in the classroom and the general public at the Sandy Creek Nature Center (Athens, Georgia, 2000-2004).

Recording for the Blind and Dyslexic. Read general and scientific texts onto tape and digital media with attention to descriptions of images, diagrams, equations, etc. for those with vision impairments (over 200 hours between 2002-2004).

SCIENTIFIC PUBLICATIONS

1. Shank, G. C., Zepp, R. G., Vahatalo, A., **Lee, R.**, Bartels, E. 2010. Photobleaching kinetics of chromophoric dissolved organic matter derived from mangrove leaf litter and floating *Sargassum* colonies. *Marine Chemistry* 119:162-171.
2. Shank, G. C., **Lee, R.**, Vahatalo, A., Zepp, R. G., Bartels, E. 2010. Production of chromophoric dissolved organic matter from mangrove leaf litter and floating *Sargassum* colonies. *Marine Chemistry* 119:172-181.
3. UNESCO. 2008. Filling Gaps in LME Nitrogen Loadings Forecast for 64 LMEs. GEF/LME global project Promoting Ecosystem-based Approaches to Fisheries Conservation and Large Marine Ecosystems. Eds. Seitzinger, S. Sherman, K., and **Lee, R.** Intergovernmental Oceanographic Commission OC Technical Series No. 79.
4. **Lee, R. Y.**, Porubsky, W. P., Feller, I. C., McKee, K. L., and Joye, S. B. 2007. Porewater biogeochemistry and soil metabolism in dwarf red mangrove habitats (Twin Cays, Belize). *Biogeochemistry* DOI 10.1007/s10533-008-9176-9.
5. **Lee, R. Y.** 2006. Primary production, nitrogen cycling and the ecosystem role of mangrove microbial mats on Twin Cays, Belize. *University of Georgia Dissertation*. 150 pp.
6. **Lee, R. Y.**, and Joye, S. B. 2006. Seasonal patterns of nitrogen fixation and denitrification in oceanic mangrove habitats. *Marine Ecology Progress Series* 307:127-141.
7. Joye, S. B., and **Lee, R. Y.** 2004. Benthic microbial mats: Important sources of fixed nitrogen and carbon to the Twin Cays, Belize ecosystem. *Atoll Research Bulletin* 528:1-24.
8. Joye, S. B., Porubsky, W. P., Weston, N. B., and **Lee, R. Y.** 2003. Benthic microalgal production and nutrient dynamics in intertidal sediments. In: Rullkötter J (ed) *BioGeoChemistry of Tidal Flats: Proceedings of a Workshop held at the Hanse Institute of Advanced Study, Delmenhorst, Germany, May 14-17, 2003*. *Forschungszentrum Terramare Berichte* 12:67-70.
9. Moore, W. S., Krest, J., Taylor, G., Roggenstein, E., Joye, S., and **Lee, R.** 2002. Thermal evidence of water exchange through a coastal aquifer: Implications for nutrient fluxes. *Geophysical Research Letters* 29(14):art 1029.
10. **Lee, R.**, Joye, S. B., Roberts, B. J., and Valiela, I. 1997. Release of N₂ and N₂O from salt marsh sediments subject to different land-derived N loads. *Biological Bulletin* 193:292-293.

REFERENCES

Available upon request.