

## ROSALYNN LEE SYLVAN

Phone: 706-338-4518

Managing Director, Crustal Ocean Biosphere Research Accelerator (COBRA)

Bigelow Laboratory for Ocean Sciences, East Boothbay, ME 04544

Email: rsylvan@bigelow.org

Managing Director, Center for Dark Energy Biosphere Investigations (C-DEBI)

University of Southern California, Los Angeles, CA, 90089

Email: rosalyyl@usc.edu

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## EDUCATION AND PROFESSIONAL TRAINING

- 2014      **Certificate in Research Administration. University of Southern California.**  
Department of Contracts and Grants.
- 2011      **Certificate in Project Management. University of Southern California.**  
Department of Career and Protective Services - Professional Development.
- 2006      **Ph.D. University of Georgia.** Department of Marine Sciences.
- 1998      **B.A. University of Virginia.** Department of Environmental Sciences.

## SOFTWARE, MULTIMEDIA, AND LANGUAGE SKILLS

Proficient in Mac and PC, Microsoft Office, Google Workspace, Zoom, Qualtrics, Adobe Creative Cloud (Acrobat/Illustrator/Photoshop/Dreamweaver), WordPress, HTML coding, Mailchimp, Slack, social media, and spoken Mandarin Chinese.

## ADMINISTRATIVE AND COMMUNICATION EXPERIENCE

- 2021-      **Managing Director.** Crustal Ocean Biosphere Research Accelerator (COBRA).  
Bigelow Laboratory for Ocean Sciences. East Boothbay, ME.
- Managing the operations of the NSF AccelNet to accelerate research of the deep sea to inform decision making.
- 2010-      **Managing Director.** Center for Dark Energy Biosphere Investigations (C-DEBI).  
University of Southern California. Los Angeles, CA.
- Managing the operations of the NSF Science and Technology Center program on the deep marine seafloor biosphere, specifically:
- Developing and coordinating operating, strategic planning and reporting documents under the Center Director
  - Supervising Center staff (~5) and acting as liaison between project PIs, USC administration and C-DEBI community
  - Budgeting Center programs and activities (NSF grant \$47.6M / 10 years)
  - Developing procedures for and administering research and education grants and postdoctoral and graduate student fellowships (>100)
  - Organizing multi-institutional meetings and workshops
  - Creating and developing communications strategies (~1000 affiliates)
- 2009-2015      **Project Manager.** DEBI Deep Biosphere Research Coordination Network.  
University of Southern California. Los Angeles, CA.
- 2009      **Freelance Editor.** International Science Editing.  
Compuscript Limited. Shannon, County Clare, Ireland.
- 2005-2008      **Postdoctoral Research Associate.** Institute of Marine and Coastal Sciences.  
Rutgers, The State University of New Jersey. New Brunswick, NJ.
- Managed the NSF Research Coordination Network project on denitrification

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- Trained scientific and managerial 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)

2004-2005 **Teaching Assistant.** Department of Marine Sciences.  
1998-1999 University of Georgia. Athens, GA.

## RESEARCH EXPERIENCE AND SELECTED PUBLICATIONS

2005-2008 **Postdoctoral Research Associate.** Rutgers, The State University of New Jersey. Institute of Marine and Coastal Sciences. New Brunswick, NJ. *Advisor: Sybil Seitzinger.*

2003-2004 **EPA Graduate Student Fellow.** Environmental Protection Agency. National Network for Environmental Management Studies. Athens, GA. *Advisor: Richard Zepp.*

1999-2000 **University of Georgia Graduate Student Fellow.** University of Georgia. Department of Marine Sciences. Athens, GA. *Advisor: Samantha Joye.*

1999 **Georgia Sea Grant Coastal Management Graduate Student Intern.** University of Georgia. Department of Marine Sciences. Athens, GA. *Advisor: Samantha Joye.*

1997 **NSF Research Experiences for Undergraduates Intern.** Marine Biological Laboratory. Boston University Marine Program. Woods Hole, MA. *Advisors: Ivan Valiela and Samantha Joye.*

1. **Lee, R. Y.**, Seitzinger, S., and Mayorga, E. 2016. Land-based nutrient loading to LMEs: A global watershed perspective on magnitudes and sources. *Environmental Development* 17 (S1):220-229.
2. Scharler, U. M., Ulanowicz, R. E., Fogel, M. L., Wooller, M. J., Jacobson-Meyers, M. E., Lovelock, C., Feller, I. C., Frischer, M., **Lee, R.**, McKee, K., Romero, I. C., Schmit, J. P., and Shearer, C. 2015. Variable nutrient stoichiometry (C:N:P) across trophic levels determines community and ecosystem properties in an oligotrophic mangrove system. *Oecologia* 179(3):863-876.
3. 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. **2012 EPA Scientific and Technological Achievement Award, Level III.**
4. 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.
5. United Nations Educational, Scientific and Cultural Organization (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 Technical Series No. 79.
6. **Lee, R. Y.**, Porubsky, W. P., Feller, I. C., McKee, K. L., and Joye, S. B. 2008. Porewater biogeochemistry and soil metabolism in dwarf red mangrove habitats (Twin Cays, Belize). *Biogeochemistry* 87(2):181-198.
7. **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.
8. 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.
9. **Lee, R.**, Joye, S. B., Roberts, B. J., and Valiela, I. 1997. Release of N<sub>2</sub> and N<sub>2</sub>O from salt marsh sediments subject to different land-derived N loads. *Biological Bulletin* 193:292-293.