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Education

B.A. Biology, Johns Hopkins University, Baltimore, MD, 1987.

Ph.D. Oceanography, Marine Sciences Research Center, State University of New York at Stony Brook, Stony Brook, NY, 1993

Professional Experience

2002 – present Associate Professor, Department of Environmental Sciences, Rutgers University
1996 – 2002 Assistant Professor, Department of Environmental Sciences, Rutgers University
1994 – 1996 Research Associate, Department of Geology, Princeton University
1992 – 1994 Post Doctoral Fellow, Ralph M. Parsons Laboratory, Department of Civil and Environmental Engineering, Massachusetts Institute of Technology
1989 – 1992 Research Assistant, Marine Sciences Research Center, State University of New York at Stony Brook

Synergistic Activities

AGU-ASLO Ocean Sciences Meeting, Orlando, Florida, March, 2008. Chaired general session: "Biological Oceanography, Marine Biology."

American Society of Limnology and Oceanography Aquatic Sciences Meeting, Santa Fe, New Mexico, February, 2007. Organized special session: "River Plume Dynamics and Biogeochemistry."

Co-lead an educational excursion up the Hudson River for 50 high school students and four high school science teachers from the Liberty Science Center's Partners in Science mentoring program and the Weston Scholars mentoring program, May 20, 2006.

Workshop on Linking Elements of the Integrated Ocean Observing System (IOOS) with the planned National Water Quality Monitoring Network, Rutgers University, September 19-21, 2005. Participant in Coastal Ocean subgroup.

Reviewer and program presenter for the Junior Science and Humanities Symposium, DOD-sponsored program for talented, underrepresented high school students (2004).

Teaching Activities

Undergraduate: Chemical Principles of Environmental Science, Water Chemistry

Graduate: Applications of Aquatic Chemistry

Lectures: Marine Biogeochemistry, Seminar in Env. Sciences, Hydrogeology

Memberships in Professional Societies

ACS, AGU, ASLO (past Chair of the Awards Committee and the Lindeman Award subcommittee), SETAC

Selected Publications

- Crespo-Medina, M., A.D. Chatziefthimiou, N.S. Bloom, G.W. Luther, D.D. Wright, J.R. Reinfelder, C. Vetriani, and T. Barkay (2009) Adaptation of chemosynthetic microorganisms to elevated mercury concentrations in deep-sea hydrothermal vents. *Limnol. Oceanogr.* 54:41-49.
- Mark A. Moline, Thomas K. Frazer, Robert Chant, Scott Glenn, Charles A. Jacoby, John R. Reinfelder, Jennifer Yost, Meng Zhou, and Oscar M.E. Schofield (2008) Biological responses in a dynamic buoyant river plume. *Oceanography*, 21:70-90.
- Zhu, Wenyi, Lily Y. Young, Nathan Yee, Michael Serfes, E. Danielle Rhine, and John R. Reinfelder (2008) Sulfide-driven arsenic solubilization from arsenopyrite and pyritic black shale. *Geochim. Cosmochim. Acta* 72:5243-5250.
- Rhine, E.D., K.M. Onesios, M.E. Serfes, J.R. Reinfelder, and L.Y. Young (2008) Arsenic transformation and mobilization from minerals by the arsenite oxidizing strain WAO. *Environ. Sci. Technol.* 42:1423–1429.
- Cardona-Marek, T., J. Schaefer, K. Ellickson, T. Barkay, and J.R. Reinfelder (2007) Mercury speciation, reactivity, and bioavailability in a highly contaminated estuary, Berry's Creek, New Jersey Meadowlands, U.S.A. *Environ. Sci. Technol.* 41:8268-8274.
- Quigg, A., J.R. Reinfelder, and N.S. Fisher (2006) Copper uptake kinetics in diverse marine phytoplankton. *Limnol. Oceanogr.* 51: 893-899.
- Reinfelder, J.R., A.J. Milligan, and F.M.M. Morel (2004) The role of the C₄ pathway in carbon accumulation and fixation in a marine diatom. *Plant Phys.* 135:2106-2111.
- Quigg, A., Z.V. Finkel, A.J. Irwin, Y. Rosenthal, T-Y Ho, J.R. Reinfelder, O. Schofield, F.M.M. Morel, P.G. Falkowski (2003) The evolutionary inheritance of elemental stoichiometry in marine phytoplankton. *Nature* 425:291-294.
- Reinfelder, J.R., A.M.L. Kraepiel and F.M.M. Morel (2000) Unicellular C₄ photosynthesis in a marine diatom. *Nature* 407:996-999.
- Reinfelder, J.R., N.S. Fisher, W. -X. Wang, J. Nichols, S.N. Luoma (1998) Trace element trophic transfer in aquatic organisms: a critique of the kinetic model approach. *Sci. Total Environ.*, 219:117-135.

Collaborators & other affiliations (last 48 months):

Tamar Barkay (Rutgers); Kay Bidle (Rutgers); Robert Chant (Rutgers); Robert Chen (Umass Boston); Steve Eisenreich (Rutgers); Paul Falkowski (Rutgers); Tom Frazer (Florida); Scott Glenn (Rutgers); Richard Hires (Stevens Institute of Technology); Allen Milligan (Oregon State); François Morel (Princeton); Oscar Schofield (Rutgers); Lily Young (Rutgers)

Graduate & Post Doctoral Advisors

Nicholas Fisher, SUNY Stony Brook; François Morel, Princeton University

Student Advising: Undergraduates: 20 students over 12 years. Graduate: Wenyi Zhu (Ph.D. program), Derek Wright (Ph.D. 2008), Lora Smith (Ph.D. 2008), Tamara Cardona (Ph.D. 2005), Yan Zhuang (Ph.D. 2004), Sandra Goodrow (M.S. 2003), Cheng-Wei Fan (Ph.D. 2002), Sung Il Chang (Ph.D., 2001).