

## CURRICULUM VITAE

**John R. Reinfelder**, Professor, Department of Environmental Sciences, 14 College Farm Road, Rutgers University, New Brunswick, NJ 08901-8551; phone: 732 932-9800 x6211; fax: 732 932-8644; reinfelder@envsci.rutgers.edu

**Education**     B.A. Biology, Johns Hopkins University, 1987  
                      Ph.D. Oceanography, Stony Brook University, 1993

### Professional Experience

1996 – present     Assistant, Associate, and Professor of Environmental Sciences, Rutgers University  
1994 – 1996        Research Associate, Laboratory of Prof. François Morel, Department of Geology, Princeton University  
1993 – 1994        Post Doctoral Fellow, Laboratory of Prof. François Morel, Ralph M. Parsons Laboratory, Department of Civil and Environmental Engineering, Massachusetts Institute of Technology

### Teaching Experience

Undergraduate: Water Chemistry  
                      Chemical Principles of Environmental Science  
Graduate:        Applications of Aquatic Chemistry  
Lectures:        Hydrogeology, Marine Biogeochemistry, Stable Isotopes in the Environment, Seminar in Environmental Sciences

### Research Interests

Aquatic biogeochemistry; trace metal accumulation and trophic transfer in aquatic organisms; inorganic carbon accumulation and fixation in marine phytoplankton; atmospheric deposition of environmental contaminants; mercury biogeochemistry; trace metal limitation of marine primary production.

### Journal articles

Zhu, W. and J.R. Reinfelder (in press) The microbial community of a black shale pyrite biofilm and its implications for pyrite weathering. *Geomicrobiol J.*  
Reinfelder, J.R. (2011) Carbon concentrating mechanisms in eukaryotic marine phytoplankton. *Annu. Rev. Mar. Sci.* 3: 291–315.  
Wright D.D., T.K. Frazer, and J.R. Reinfelder (2010) The influence of river plume dynamics on trace metal accumulation in calanoid copepods. *Limnol. Oceanogr.* 55: 2487–2502.  
Smith, L.M., and J.R. Reinfelder (2009) Mercury volatilization from salt marsh sediments, *J. Geophys. Res. Biogeosci.*, 114, G00C09, doi:10.1029/2009JG000979.  
Crespo-Medina, Melitza, Aspasia D. Chatziefthimiou, Nicolas S. Bloom, George W. Luther III, Derek D. Wright, John R. Reinfelder, Costantino Vetriani, and Tamar 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.
- Wolfe-Simon, F., V. Starovoytov, J.R. Reinfelder, O. Schofield, and P.G. Falkowski (2006) Localization and role of manganese superoxide dismutase in a marine diatom. *Plant Physiol.* 142:1701-1709.
- Finkel, Z.V., A.S. Quigg, J.A. Raven, J.R. Reinfelder, O.E. Schofield, and P.G. Falkowski (2006) Irradiance-induced changes in the elemental stoichiometry of marine phytoplankton. *Limnol. Oceanogr.* 51:2690-2701.
- Quigg, A., J.R. Reinfelder, and N.S. Fisher (2006) Copper uptake kinetics in diverse marine phytoplankton. *Limnol. Oceanogr.* 51:893-899.
- Goodrow, S.M., R. Miskewitz, R.I. Hires, S.J. Eisenreich, W.S. Douglas, J.R. Reinfelder (2005) Mercury emissions from cement-stabilized dredged material. *Environ. Sci. Technol.* 39: 8185-8190. *with correction:* Goodrow et al. (2006) *Environ. Sci. Technol.* 40: 409.
- Gigliotti, C.L., L. A. Totten, J. H. Offenberg, J. Dachs, J. R. Reinfelder, E. Nelson, T. R. Glenn IV, and S. J. Eisenreich (2005) Atmospheric concentrations and deposition of PAHs to Mid-Atlantic east coast. *Environ. Sci. Technol.* 39: 5550-5559.
- Reinfelder, J.R., A.J. Milligan, and F.M.M. Morel (2004) The role of the C<sub>4</sub> pathway in carbon accumulation and fixation in a marine diatom. *Plant Phys.* 135:2106-2111.
- Schaefer, J.K., J. Yagi, J.R. Reinfelder, T. Cardona, K.M. Ellickson, S. Tel-Or, and T. Barkay (2004) Role of the bacterial organomercury lyase (MerB) in controlling methylmercury accumulation in mercury-contaminated natural waters. *Environ. Sci. Technol.* 38: 4304 – 4311.
- Totten, L.A., C.L. Gigliotti, D.A. Van Ry, J.H. Offenberg, E.D. Nelson, J. Dachs, J.R. Reinfelder, S.J. Eisenreich (2004) Atmospheric concentrations and deposition of polychlorinated biphenyls to the Hudson River Estuary. *Environ. Sci. Technol.* 38: 2568-2573.
- Koelliker, Y., L.A. Totten, C.L. Gigliotti, J.H. Offenberg, J.R. Reinfelder, Y. Zhuang, S.J. Eisenreich (2004) Atmospheric Wet Deposition of Total Phosphorus in New Jersey. *Water, Air, and Soil Pollut.* 154: 139-150.
- 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.
- Fan, C.-W. and J. R. Reinfelder (2003) Phenanthrene accumulation kinetics in marine diatoms. *Environ. Sci. Technol.* 37: 3405-3412.
- Chang, S.I. and J.R. Reinfelder (2002) Relative importance of dissolved versus trophic bioaccumulation of copper in marine copepods. *Mar. Ecol. Prog. Ser.* 231:179-186.

- Morel, F.M.M., E.H. Cox, A.M.L. Kraepiel, T.W. Lane, A.J. Milligan, I. Schaperdorth, J.R. Reinfelder, and P.D. Tortell (2002) Acquisition of inorganic carbon by the marine diatom *Thalassiosira weissflogii*. *Funct. Plant Biol.* 29:301-308.
- Reinfelder, J.R. (2001) Photosynthesis in a marine diatom. *Nature* 412:40-41.
- Chang, S.I. and J.R. Reinfelder (2000) Bioaccumulation, subcellular distribution and trophic transfer of copper in a coastal marine diatom. *Environ. Sci. Technol.* 34: 4931-4935.
- Reinfelder, J.R., A.M.L. Kraepiel and F.M.M. Morel (2000) Unicellular C<sub>4</sub> photosynthesis in a marine diatom. *Nature* 407:996-999.
- Reinfelder, J.R., R.E. Jablonka, and M. Cheney (2000) Metabolic responses to sub-acute toxicity of trace metals in a marine microalga. *Environ. Toxicol. Chem.* 19:448-453.
- Reinfelder, J.R. and S.I. Chang. (1999) Speciation and microalgal bioavailability of inorganic silver. *Environ. Sci. Technol.* 33:1860-1863.
- 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.
- Reinfelder, J.R., W.-X. Wang, S.N. Luoma, and N.S. Fisher (1997) Assimilation efficiencies and turnover rates of trace elements in marine bivalves: a comparison of oysters, clams, and mussels. *Mar. Biol.*, 129:443-452.
- Tortell, P.D., J.R. Reinfelder, and F.M.M. Morel (1997) Active uptake of bicarbonate by diatoms. *Nature*, 390:243-244.
- Mason, R. P., J.R. Reinfelder, and F.M.M. Morel (1996) The uptake, toxicity and trophic transfer of inorganic mercury and methylmercury in a marine diatom. *Environ. Sci. Technol.*, 30:1835-1845.
- Wang, W.-X., J.R. Reinfelder, B.-G. Lee, and N.S. Fisher (1996) Assimilation and regeneration of trace elements by marine copepods. *Limnol. Oceanogr.*, 41:70-81.
- Morel, F.M.M. and J.R. Reinfelder (1995) Growth limits on phytoplankton. *Nature*, 373:28.
- Mason, R., J.R. Reinfelder, and F.M.M. Morel (1995) Bioaccumulation of mercury and methylmercury. *Water, Air, Soil Pollut.*, 80:915-921.
- Reinfelder, J.R. and N.S. Fisher (1994) The retention of elements absorbed by juvenile fish (*Menidia menidia*, *M. beryllina*) from zooplankton prey. *Limnol. Oceanogr.*, 39:1783-1789.
- Morel, F.M.M., J.R. Reinfelder, S.B. Roberts, C.P. Chamberlain, J.G. Lee, and D. Yee (1994) Zinc and carbon co-limitation of marine phytoplankton. *Nature*, 369:740-742.
- Reinfelder, J.R. and N.S. Fisher (1994) The assimilation of elements ingested by marine planktonic bivalve larvae. *Limnol. Oceanogr.*, 39:12-20.
- Reinfelder, J.R., N.S. Fisher, S.W. Fowler, and J.-L. Teyssié (1993) Release rates of trace elements and protein from decomposing planktonic debris. 2. Copepod carcasses and sediment trap particulate matter. *J. Mar. Res.*, 51:423-442.
- Luoma, S.N., C. Johns, N.S. Fisher, N.A. Steinberg, R.S. Oremland, and J.R. Reinfelder (1992) Absorption of organo-selenium and elemental selenium via ingestion in the bivalve *Macoma balthica*. *Environ. Sci. Technol.*, 26:485-491.
- Reinfelder, J.R. and N.S. Fisher (1991) The assimilation of elements ingested by marine copepods. *Science*, 251:794-796.
- Fisher, N.S. and J.R. Reinfelder (1991) Assimilation of selenium in the marine copepod *Acartia tonsa* studied with a radiotracer ratio method. *Mar. Ecol. Prog. Ser.*, 70:157-164.

### **Other Reports, Articles, and Proceedings**

- Reinfelder, J.R. and S. Peters (2008) Mercury Emissions from Meadowlands Sediments and Vegetation to the Atmosphere. Report to the New Jersey Department of Environmental Protection.
- Young, L.Y., E.D. Rhine, E. Garcia-Dominguez, J.R. Reinfelder, M.E. Serfes (2007) Microbial transformations of hazardous metals in the environment. 12th International Symposium on Water-Rock Interaction, Proceedings, Volumes 1 and 2: 41-46.
- Chant, R., Paul Bissett, Robert Chen, Thomas Frazer, Bernie Gardner, Scott Glenn, Robert Houghton, Mark Moline, John Reinfelder, Oscar Schofield, John Wilkin and Meng Zhou (2005) Update: Lagrangian Transport and Transformation Experiment – LaTTE. Newsletter of Coastal Ocean Processes 22:5-6.
- Reinfelder, J.R., G. Stenchikov, and L.A. Totten (2006) Emissions and Atmospheric Transport of PCBs and Hg from Stabilized Harbor Sediments. Report to the New Jersey Marine Sciences Consortium and New Jersey Department of Transportation Office of Maritime Resources.
- Glenn, S.M., R. Chant, J. Kohut, J. Reinfelder, O. Schofield, J. McDonnell (2006) Opening a Window to the Sea: The Potential of the Ocean Observatories for Education. OCEANS 2006 MTS/IEEE: Revolutionizing Marine Science and Technology. Conference Proceedings, Online publication; ISBN:1-4244-0115-1; DOI: 10.1109/OCEANS.2006.306808, <http://ieeexplore.ieee.org/iel5/4098824/4098825/04098963.pdf>. Permanently archived.
- Frazer, T.K., O. Schofield, M.A. Moline, S.M. Glenn, J. Kohut, R.J. Chant, S.R. Keller, M. Oliver, J.R. Reinfelder, M. Zhou, and R.F. Chen. 2006. Coastal Ocean Observatories Enable Biological Investigations in a Buoyant Plume. OCEANS 2006 MTS/IEEE: Revolutionizing Marine Science and Technology. Conference Proceedings, Online publication; ISBN:1-4244-0115-1; DOI: 10.1109/OCEANS.2006.306827, <http://ieeexplore.ieee.org/iel5/4098824/4098825/04098982.pdf>. Permanently archived.
- Reinfelder, J. R. and L.A. Totten (2006) Mercury in the Delaware River Estuary: Past and Present. Report to the Delaware River Basin Commission.
- Chant, R., Paul Bissett, Robert Chen, Thomas Frazer, Bernie Gardner, Scott Glenn, Robert Houghton, Mark Moline, John Reinfelder, Oscar Schofield, John Wilkin and Meng Zhou (2005) Lagrangian Transport and Transformation Experiment (LaTTE). Newsletter of Coastal Ocean Processes 20:3.
- Chant, R., Paul Bissett, Robert Chen, Thomas Frazer, Bernie Gardner, Scott Glenn, Robert Houghton, Mark Moline, John Reinfelder, Oscar Schofield, John Wilkin and Meng Zhou (2005) Wind-forced and spring/neap variability in a buoyant river plume: Observations from a coastal observing system. Newsletter of Coastal Ocean Processes 19:4.
- Reilly, T.J., Walker, C.E., Baehr, A.L., Schrock, R.M. and J.R. Reinfelder (2005) Occurrence of diatoms in lakeside wells in northern New Jersey as an indicator of the effect of surface water on ground-water quality. U.S. Geological Survey Scientific Investigations Report 2005-5263, 13 pp.
- Chant, R., Paul Bissett, Robert Chen, Thomas Frazer, Bernie Gardner, Scott Glenn, Robert Houghton, Mark Moline, John Reinfelder, Oscar Schofield, John Wilkin and Meng Zhou (2005) Lagrangian Transport and Transformation Experiment: 2004 Field Effort. Newsletter of Coastal Ocean Processes 18:5-7.

- Reinfelder, J.R., L.A. Totten, and S.J. Eisenreich (2004) The New Jersey Atmospheric Deposition Network (NJADN). Final report to the New Jersey Department of Environmental Protection.
- Korfiatis, G.P., R.I. Hires, J.R. Reinfelder, L.A. Totten, and S.J. Eisenreich (2003) Monitoring of PCB and Hg Air Emissions in Sites Receiving Stabilized Harbor Sediment. Report to the New Jersey Marine Sciences Consortium and New Jersey Department of Transportation Office of Maritime Resources.
- Eisenreich, S.J. and J.R. Reinfelder (2002) The Bioaccumulation of PCBs and Other SOC's in Phytoplankton via Air-Water Exchange in the NY/NJ Hudson River Harbor Estuary. Report to the Hudson River Foundation.
- Reinfelder, J.R. (2002) Atmospheric cycling of mercury in New Jersey. New Jersey Flows, New Jersey Water Resources Research Institute, 3:2.
- Schaefer, J.K., J.R. Reinfelder, and T. Barkay (2002) The role of bacteria in controlling methylmercury accumulation in New Jersey waters. New Jersey Flows, New Jersey Water Resources Research Institute, 3:1,7.
- Reinfelder, J.R. (2000) Atmospheric deposition of mercury to the New York-New Jersey harbor estuary and watershed. In: M.P. Weinstein, K.E. Kosko, and L.S. Young, eds., Proceedings – The Significance of Atmospheric Pollutant Loading to the New York-New Jersey Harbor Estuary and Watershed (April 13, 2000), NJSG-00-443. New Jersey Marine Sciences Consortium and New Jersey Department of Environmental Protection.

### **Book Chapters**

- Serfes, M.E., G.C. Herman, S.E. Spayd, and J. Reinfelder (2010) Sources, mobilization and transport of arsenic in groundwater in the Passaic and Lockatong Formations of the Newark Basin, New Jersey, In: Contributions to the Geology and Hydrogeology of the Newark Basin, G.C. Herman and M.E. Serfes, eds. N.J. Geological Survey Bulletin 77, pp. E1-E40.
- Fisher, N.S. and J.R. Reinfelder (1995) The trophic transfer of metals in marine systems. In: Metal Speciation and Bioavailability in Aquatic Systems, A. Tessier and D.R. Turner, eds., Wiley.

### **Articles Highlighting Research**

- Branan, N. (2009) Sunlight mobilizes mercury in wetlands. Earth magazine (American Geological Institute), 22 December 2009. In reference to Smith and Reinfelder, 2009.
- Betts, K.S. (2005) More sources of mercury in the environment – Landfill created with stabilized contaminated sediments emits more mercury than expected. Environ. Sci. Technol. (Science News), September 28, 2005, [http://pubs.acs.org/subscribe/journals/esthag-w/2005/sep/science/kb\\_sourceHg.html](http://pubs.acs.org/subscribe/journals/esthag-w/2005/sep/science/kb_sourceHg.html). In reference to Goodrow et al., 2005.
- Minorsky, P.V. (2002) Kranz Anatomy. A Sine Qua Non for C<sub>4</sub> Photosynthesis? Plant Phys. 128:334-335. In reference to Reinfelder et al., 2000 and other related papers.
- Riebesell, U. (2000) Photosynthesis: Carbon fix for a diatom, Nature (News and Views), 407 959-960. In reference to Reinfelder et al., 2000.

### **Invited Talks – Outside of Rutgers**

- First International Conference on the Molecular Life of Diatoms, Georgia Institute of Technology, June 9, 2011.

Earth and Environmental Sciences, Lehigh University, April 1, 2011.  
Lamont-Doherty Earth Observatory (Biology and Paleo Environment Division), Columbia University, March 13, 2009.  
American Society for Microbiology's 108<sup>th</sup> General Meeting, Boston, MA, June 2, 2008  
Department of Fisheries and Aquatic Sciences, University of Florida, March 21, 2008  
Department of Marine Sciences, University of Connecticut, March 9, 2007  
Meadowlands Environmental Research Institute, March 10, 2006  
Department of Civil and Environmental Engineering, University of Delaware, March 18, 2004  
Department of Geosciences, Princeton University, March, 2003  
CO<sub>2</sub> Fixation & Metabolism in Green Plants, Gordon Research Conference, August 13, 2002  
Marine Science Research Center, SUNY Stony Brook, March 17, 2000  
Department of Biological Sciences, Dartmouth College, February 4, 2000  
Chesapeake Biological Laboratory, University of Maryland, March 6, 1998  
College of Marine Studies, University of Delaware, October 28, 1997  
Department of Biology, East Carolina University, April 19, 1996  
INRS-Eau, University de Quebec, March 15, 1995  
Department of Biological Oceanography, WHOI, November 5, 1993

### **Invited Talks – Inside Rutgers**

Microbiology at Rutgers, Third Annual Mini-Symposium, January 30, 2009  
Department of Biochemistry and Microbiology, Rutgers University, April 25, 2008  
Rutgers Energy Institute, May 24, 2007  
Department of Geological Sciences, Rutgers University, October 1, 2003  
Department of Environmental Sciences, Rutgers University, February 25, 1997  
Environmental and Occupational Health Sciences Institute, Rutgers, November 15, 1996

### **Other Presentations**

"Trace Metals, Nutrients, and Mercury in the New Jersey Atmospheric Deposition Network (NJADN)," New Jersey Department of Environmental Protection, September 23, 2004.  
"Monitoring of PCB and Hg Air Emissions in Sites Receiving Stabilized Harbor Sediment," New Jersey Sea Grant Program Assessment, May 17, 2004.  
"Results from the New Jersey Atmospheric Deposition Network (NJADN)," New Jersey Department of Environmental Protection, May 20, 2002.

### **Synergistic Activities**

Research Internships in Ocean Sciences (RIOS), Institute of Marine and Coastal Sciences, Rutgers. Program speaker, June 2010.  
Rutgers School of Environmental and Biological Sciences Research Poster Contest judge, April 2010.  
Geological Society of America Northeastern/Southeastern Combined Meeting, Baltimore, MD, March 2010. Co-convener of session: "Mercury in the Environment: From Maine to Florida."  
AGU-ASLO Ocean Sciences Meeting, Orlando, Florida, March, 2008. Organized 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."

New Jersey Department of Environmental Protection's Watershed Management Review Committee to review watershed management strategies and the total maximum daily load (TMDL) process, 2001-2006, 2008-2009.

Co-lead an educational excursion on 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.

Hudson River Foundation, Long Range Planning Workshop: Chemical Contaminants, July, 2005.

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

American Society of Limnology and Oceanography, Summer Meeting, Victoria, British Columbia, 2002. Organized special session, "Speciation, Bioavailability and Ecological Impacts of Atmospheric Trace Metal Deposition."

Workshop on Total Maximum Daily Loads in the Hudson-Delaware Region (SETAC, Hudson-Delaware Chapter, NJ DOT Office of Maritime Resources), Trenton, New Jersey, September 13, 2002. Gave talk, "The use of atmospheric deposition data in TMDLs."

Barnegat Bay Watershed and Estuary Foundation's Annual Conflict Resolution Seminar, Toms River, New Jersey, May 15, 2002. Gave talk, "Atmospheric Deposition of Organic and Trace Metal Pollutants to New Jersey Watersheds and Estuaries."

Coastal/Estuarine Research Agenda (NJ Department of Environmental Protection), Trenton, New Jersey, June 8, 2001. Contributed to the prioritization of research needs in the Water Quality and Processes section.

"Scientific Perspectives on Mercury Management in the Hudson-Delaware Region," SETAC, Hudson-Delaware Chapter workshop, Monmouth University, West Long Branch, New Jersey, September 29, 2000. Gave talk, "Wet Deposition of Mercury to Surface Waters in the Hudson-Delaware Region" and sat on panel for afternoon Q & A.

"The Significance of Atmospheric Pollutant Loading to the New York-New Jersey Harbor Estuary and Watershed," New Jersey Marine Sciences Consortium workshop, Monmouth University, West Long Branch, New Jersey, April 13, 2000. Gave talk, "Atmospheric Pollutant Loading: Current State of Knowledge, Data Gaps, and Information Needs (Mercury)" and sat on panel for afternoon Q & A.

Contaminant Assessment and Reduction Project (CARP) Mercury Workshop, NY Department of Environmental Conservation, NJ Department of Environmental Protection, Hudson River Foundation, New York, NY, December 4, 1998. Candidate was a member of the panel that reviewed sampling, analysis, and modeling concerns for CARP's mercury monitoring program in the NY/NJ Harbor Estuary.

Paradigms of Metal Bioaccumulation in Aquatic Ecosystems, Berkeley, California, November, 1997. Sponsored by the Wisconsin Department of Natural Resources and the Electric Power Research Institute. Co-Chair of the Trophic Transfer section.

## **Student Advising**

### Undergraduate:

- Academic advisor for Environmental Science majors
- Faculty Advisor for the Undergraduate Environmental Science and Engineering Club (2000-present)
- Research advisor for Laura Motta (Chemistry), Nicholas Wright (Biology Rutgers-Aresty Fellow), Rumman M. Hossain (Biomolecular Eng., Stony Brook), Timothy Blockus (Env. Sci., Middlesex), Frank Reig (Env. Sci.), Anna Solovyeva (Biology), Kathleen Kang (BEE), Logan Yu (Cooper Union), Rebecca Spaul (Env. Sci.), David Loeffler (Env. Sci.), Ben Smolinski (Env. Sci.), Jennifer Quiñones González (Chemistry, University of Puerto Rico in Humacao), Jennifer Kos (Env. Sci.), James Moore (Env. Sci.), Aurelie Jimonet (Chemistry), Karan Bhandari (BRE), Sandra Goodrow (Env. Sci.), Elizabeth Krupka (Env. Sci.), Brian Rath (Biology), Jill McCarthy (Env. Sci.), Jacqueline Paritte (Biology), Asiya Ali (Chemistry)

### Graduate:

- Advisor (all Graduate Program in Environmental Science): Wenyi Zhu (Ph.D. 2010, current position: post-doc Wofford College, South Carolina), Derek Wright (Ph.D. 2008, current position : Assistant Professor, Lake Superior State University, Michigan), Lora Smith (Ph.D. 2008, current position: US EPA Region II, New York), Tamara Cardona (Ph.D. 2005, current position: Alaska Department of Environmental Conservation, Fairbanks), Yan Zhuang (Ph.D. 2004, current position: WESTAT Research Corp.), Sandra Goodrow (M.S. 2003, Program Associate, Rutgers Water Resources Program), Dan Salvito (Ph.D. 2003, current position: Research Institute for Fragrance Materials), Cheng-Wei Fan (Ph.D. 2002, current position: Department of Earth and Environmental Sciences, National Chung Cheng University, Taiwan), Sung Il Chang (Ph.D., 2001, Current position: Department of Pharmacology, Penn State College of Medicine).
- Co-advisor: Rachel Jablonka (M.S., 1998, Current position: Project Officer, U.S. E.P.A. Region II, New York.)
- Thesis/Dissertation committees: Timothy Reilly (Ph.D. Earth and Planetary Sciences), Matt Colombo (Ph.D., Environmental Sciences), Sean Bugel (Ph.D. 2011, Environmental Sciences), Yevgen Nazarenko (Ph.D., Environmental Sciences), Riqing Yu (Ph.D. 2011, Environmental Sciences), Gerald Rustic (M.S. 2011, Environmental Sciences), Archil Zarnadze (Ph.D. 2010, Environmental Sciences), Andy Sandy (Ph.D. 2010, Environmental Sciences), Brian Gaas (Ph.D. 2010, Oceanography), Dawn Cacia (M.S. 2010, Environmental Sciences), Erin Gallagher (Ph.D. 2010, Environmental Sciences), Michele LaVigne (Ph.D. 2010, Oceanography), Katye Altieri (Ph.D. 2009, Oceanography), Sandra Goodrow (Ph.D. 2009, Environmental Sciences), Melitza Crespo-Medina (Ph.D. 2009, Microbiology and Molecular Biosciences), Songyan Du (Ph.D. 2008, Environmental Sciences), Ellen Fyock (M.S. 2008, Environmental Sciences), James Moore (M.S. 2008, Environmental Sciences), Kritee Kritee (Ph.D. 2008, Microbiology and Molecular Biosciences), Qaiser Tarique (Ph.D. 2008, Ecology and Evolution), Samriti Sharma (Ph.D. 2007, Environmental Science), Yongcheng Ji (Ph.D. 2006, Oceanography), Ann Marie Carlton (Ph.D. 2006, Environmental Sciences), Felisa Wolfe-Simon (Ph.D. 2006, Oceanography), Amy Rowe (Ph.D. 2006, Environmental Sciences), Andrea Polidori (Ph.D. 2005, Environmental Sciences), Eleni Anagnostou (M.S. 2005, Environmental Sciences), Jeffra Schaefer (Ph.D. 2005,



Microbiology and Molecular Biosciences), Michael Serfes (Ph.D. 2005, Geological Sciences), Zoe Finkel (Ph.D. 2005, Oceanography), Cynthia Liutkus (Ph.D. 2005, Geological Sciences), Scott Mittman, Ph.D. 2004, Environmental Sciences), Cari Gigliotti (Ph.D. 2003, Environmental Science), Rosalinda Gioia (M.S. 2003, Environmental Science), Shu Yan (M.S. 2003, Environmental Science), Joe Grzymski (Ph.D. Oceanography, 2002), Daryl Van Ry (M.S. 2002), Dan Deocampo (Ph.D. 2001, Geological Sciences), Kristie Ellickson (Ph.D. 2001, Environmental Science), Jay Cullen (Ph.D. 2001, Oceanography), Tsung-Hung Li (Ph.D. 2000, Environmental Science), Karen Birdsall (M.S. 1999, Environmental Science), Debra Linton (Ph.D. 1999, Oceanography).

- External examiner: Adam Pimenta (University of Delaware, M.S. 2011), Graham Peers (McGill University, Ph.D. 2005), Marie-Noëlle Croteau (University of Québec, Ph.D. 2002)

### **Postdoctoral Trainees**

K. Kritee (2010-present)  
Adam Kustka (2007-2008)  
Kristie Ellickson (2002-2004)

### **Awards**

Outstanding Undergraduate Advisor Award, Cook College, Rutgers University, May, 2007.  
Research Excellence Award, Cook College, Rutgers University, May, 2005.  
The Pritchard Award, Marine Sciences Research Center, SUNY Stony Brook, December, 1993.  
The Lindeman Award, American Society of Limnology and Oceanography, June, 1993.

### **Rutgers Program and Institute Memberships**

Graduate Program in Geological Sciences  
Graduate Program in Oceanography  
Institute of Marine and Coastal Sciences  
Rutgers Energy Institute

### **Memberships in Professional Societies**

American Chemical Society  
American Geophysical Union  
American Society of Limnology and Oceanography (past Chair of the Awards Committee and the Lindeman Award subcommittee)  
American Society for Microbiology  
Society of Environmental Toxicology and Chemistry