

James W. Ammerman (updated 01/31/08)

Professional Preparation

Grinnell College, Grinnell, Iowa	Biology	B.A., 1973
University of California, San Diego	Marine Biology	Ph.D., 1983
University of California, San Diego (postdoctoral)	Marine Microbiology	1983-85

Appointments

Rutgers University, Associate Research Professor (2000-present)
Texas A&M University, Associate Professor, (1989-2000, tenured 1992)
Lamont-Doherty Earth Observatory of Columbia University, Associate Research Scientist, (1985-89)

Selected Publications

2007 Sylvan J.B, Quigg A., Tozzi S., and J.W. Ammerman. Eutrophication induced phosphorus limitation in the Mississippi River Plume: Evidence from fast repetition rate fluorometry. *Limnology and Oceanography*. 52(6): 2679-2685.

2007 Gaas, B.M. and J.W. Ammerman. Automated high resolution ectoenzyme measurements: instrument development and deployment in three trophic regimes. *Limnology and Oceanography: Methods*. 5: 463-473.

2007 Dagg, M.J., Ammerman, J.W., Amon, R.M.W., Gardner, W.S., Green, R.E., Lohrenz, S.E. A review of water column processes influencing hypoxia in the northern Gulf of Mexico. *Estuaries and Coasts*. 30(5): 735-752.

2007 Dyhrman, S.T., J. W. Ammerman, and B. A. S. Van Mooy. Microbes and the marine phosphorus cycle. *Oceanography Magazine*. 20(2): 110-116.

2006 Sylvan J.B, Dortch Q, Nelson D.M., Brown A.M., Morrison W., and J.W. Ammerman. Phosphorus limits phytoplankton growth on the Louisiana shelf during hypoxia formation. *Environmental Science & Technology*. 40: 7548-7553 [10.1021/es061417t](https://doi.org/10.1021/es061417t).

2004 Lomas, M. W., A. Swain, R. Shelton, and J.W. Ammerman. Taxonomic variability of phosphorus stress in Sargasso Sea phytoplankton. *Limnology and Oceanography* 49: 2303-2310.

2003 Ammerman, J. W., Hood R. R., Case, D. A., and J. B. Cotner. Phosphorus deficiency in the Atlantic: An emerging paradigm in oceanography. *EOS (Transactions, American Geophysical Union)* 84: 165,170.

2002 Ammerman, J.W. Phosphorus cycling in aquatic environments: Role of Bacteria. In, *The Encyclopedia of Environmental Microbiology* (G. Bitton, ed.). Vol. 5: 2448-2453. John Wiley & Sons, Inc.

2000 Pakulski, J. D., Benner, R., Whittedge, T., Amon, R., Eadie, B., Cifuentes, L., Ammerman, J., and D. Stockwell. Microbial metabolism and nutrient cycling in the Mississippi and Atchafalaya River plumes. *Estuarine Coastal And Shelf Science* 50: 173-184.

2000 Ammerman, J. W., and W. B. Glover. Continuous underway measurement of microbial ectoenzyme activities in aquatic ecosystems. *Marine Ecology Progress Series* 201: 1-12.

Synergistic Activities

In December, 2006, gave an invited presentation to the Hypoxia Advisory Panel of the EPA Science Advisory Board about phosphorus limitation on the Louisiana coast and its role in hypoxia.

Partner Scientist for Mid-Atlantic Center for Ocean Sciences Education Excellence (COSEE), regularly invited to speak on education and outreach issues at national meetings

Mentored twelve undergraduate summer interns since 2001, four were minority students in the RISE at Rutgers or RIOS Program, and two students won poster competitions at regional or national meetings. Seven of these interns participated in research cruises in the Gulf of Mexico. Lead PI of former NSF Ocean Sciences REU Site (RIOS) at Rutgers University.

Active in sensor development and ocean observing systems. In 2007, worked half-time at Ocean.US to help establish a relationship between the Integrated Ocean Observing System (IOOS) and the Ocean Biogeographic Information System (OBIS) of the Census of Marine Life (CoML). This is supported by the Alfred P. Sloan Foundation. Also a member of the Sensor subcommittee of the NSF Ocean Observatories Initiative.

Editor for journal *Aquatic Microbial Ecology* (2004-2006), Board member of The Oceanography Society (2004-2006)

Collaborators

Robert Chant (Rutgers University)
James Cotner (University of Minnesota)
Quay Dortch (LUMCON)
Sonya Dyhrman (Woods Hole Oceanographic Institution)
Thomas Fisher (University of Maryland, HPEL)
Raleigh Hood (University of Maryland, HPEL)
Ellery Ingall (Georgia Tech)
Gary Klinkhammer (Oregon State University)
Michael Lomas (Bermuda Biological Station for Research)
David Nelson (Ifremer, Brest, France)
Antonietta Quigg (TAMUG)
Costantino Vetriani (Rutgers University)

Graduate and Postdoctoral Advisors

Farooq Azam (University of California, San Diego) served as both

Thesis Advisor (total students advised, 6; postdoctorals, 1)

Jason Sylvan, M.S. (2004), Rutgers University
Brian Gaas, M.S. (2006), Rutgers University
Jason Sylvan, Ph.D. (2008), Rutgers University
Brian Gaas, current Ph.D. student, Rutgers University
Marta Sebastian (Ph.D., University of Malaga, Spain), current postdoctoral fellow