

## OSCAR M. SCHOFIELD

Coastal Ocean Observation Lab, Institute of Marine & Coastal Sciences  
Rutgers University, New Brunswick, NJ 08901  
(TEL) 732.932.6555, x. 548 (FAX) 732.932.8578  
[oscar@marine.rutgers.edu](mailto:oscar@marine.rutgers.edu) · <http://www.marine.rutgers.edu/cool>

### A. PROFESSIONAL PREPARATION

- 1983-1987 B.A. in Aquatic Biology, Department of Biology, University of California, Santa Barbara  
1989-1993 Ph.D. in Biology, Department of Biology, University of California, Santa Barbara  
1994 Postdoctoral Researcher, ICCES, University of California, Santa Barbara  
1994-1995 Postdoctoral Researcher, Southern Regional Research Center, Agriculture Research Service

### B. APPOINTMENTS

- 1995-Present Assistant, Associate, Full Professor, Rutgers University  
2001-Present Adjunct Professor, California Polytechnic State University, San Luis Obispo, CA  
2000-Present Member of Rutgers Ocean Systems Engineering Center  
1999-Present Member of Rutgers Environmental Biophysics and Molecular Biology Program  
1999-2005 Co-Director of the Coastal Ocean Observation Laboratory  
1995-Present Adjunct Research Scientist, Mote Marine Laboratory, Sarasota, FL  
1989-1990 Curator, Algal Culture Collection, Department of Biology, UCA, Santa Barbara

### C. PUBLICATIONS (OUT OF OVER 100 PUBS) (\*\* PAPER BY GRADUATE STUDENT OR POST-DOCS)

- Schofield, O.**, J. Kerfoot, K. Mahoney, M. Moline, M. Oliver, S. Lohrenz, and G. Kirkpatrick 2006. Vertical migration of the toxic dinoflagellate *Karenia brevis* and the impact on ocean optical properties. *Journal of Geophysical Research*, 111, C06009, doi:10.1029/2005JC003115
- Schofield, O.**, Bosch, J., Glenn, S. M., Kirkpatrick, G., Kerfoot, J., Moline, M., Oliver, M., Bissett, W. P. 2007. Bio-optics in integrated ocean observing networks: potential for studying harmful algal blooms. In Real Time Coastal Observing Systems for Ecosystems Dynamics and Harmful Algal Blooms. Babin, M. Roelser, C. and Cullen, J. J. (Eds) UNESCO, Paris. 85-108.
- Schofield, O.**, Kohut, J., Aragon, D., Creed, L., Graver, J., Haldeman, C., Kerfoot, J., Roarty, H., Jones, C., Webb, D., Glenn, S. M. 2007. Slocum Gliders: Robust and ready. *Journal of Field Robotics*. 24(6): 473-485. DOI: 10.1009/rob.20200
- \*\*Cahill, B., **Schofield, O.**, R. Chant, J. Wilkin, E. Hunter, S. Glenn, and P. Bissett 2008. Dynamics of turbid buoyant plumes and the feedbacks on near-shore biogeochemistry and physics, *Geophysical Research Letters* doi:10.1029/2008GL033595.
- Chant, R. J., Glenn, S. M., Hunter, E., Kohut, J., Chen, R. F., Houghton, R. H., Bosch, J., **Schofield, O.** 2007. Evidence of bulge formation in the Hudson River outflow. *Journal of Geophysical Research*. DOI:10.1029/2007JC004100
- \*\*Litchman E., Klausmeier C. A., **Schofield O.**, Falkowski P. G. 2007. The role of functional traits and trade-offs in structuring phytoplankton communities: scaling from cellular to ecosystem level. *Ecology Letters*. 10: 1170-1181.
- \*\*Oliver, M. J., M. Moline, C. Mobley, L. K. Sundman, and **O. Schofield** 2007. Bioluminescence in a complex coastal environment: 2. Prediction of bioluminescent source depth from spectral water-leaving radiance, *Journal of Geophysical Research* doi:10.1029/2007JC004136
- Schofield, O.**, Kohut, J., Glenn, S. M. 2008. Coastal observing networks and dawn in a new millennium of well sampled oceans. *Sea Technology*. 49: 31-36
- Glenn, S. M., Jones, C., Twardowski, M., Bowers, L., Kerfoot, J., Webb, D., **Schofield, O.** 2008. Studying resuspension processes in the Mid-Atlantic Bight using Webb slocum gliders. *Limnology and Oceanography* 53(6): 2180-2196.

Chao, Y., Zhijin L., Farrara, J. D., Moline, M. A., **Schofield, O.**, Majumdar, S. J. 2008. Synergistic applications of autonomous underwater vehicles and regional ocean modeling system in coastal ocean forecasting. *Limnology and Oceanography* 53(6): 2251-2263.

#### **D. SYNERGISTIC ACTIVITIES**

2004-2006 North American Chair for the Oceanography Society Meetings in Paris, France, Spring 2005  
2004-2006 Executive Steering Committee for the ORION Program  
2006 Advisory Committee for the “Undersea Vehicle Technology Center”  
2007 Board of Directors of the Canadian “Ocean Entity Society”  
2007 Oversight Committee for the European EuroSITES program  
2007 Chair of “Cyberinfrastructure for Ocean Observatories” session at American Geophysical Union Meeting  
2008 Invited Participant for workshop to develop the Cyberinfrastructure for United States Environmental Observatories hosted by the Computer Science Division, NSF (Arlington VA)  
2008 Organizing Committee on the “Integrated Ocean Observing System Modeling framework symposium” Arlington, Virginia  
2008 Steering Committee for the Federation of Observing Environmental Networks (FEON) for NSF Computer Science Directorate.  
2008 Editorial Board of the Journal of Marine Biology

**E. COLLABORATORS & OTHER AFFILIATIONS (LAST 48 MONTHS):** B. Arnone (NRL), K. Benoit-Bird (Oregon), P. Bissett (FERI), S. Blackwell (CalPoly), A. Blumberg (Stevens), W. Boicourt (U. MD), P. Bogden (GoMOOS), E. Boss (U. Maine), M. Bruno (Stevens), T. Campbell (Webb Research), J. Case (UCSB), G. Chang (UCSB), B. Chant (Rutgers), B. Chen (UMass), M. Crowley (SeaSpace), T. Dickey (UCSB), R. Dunk (Rutgers), P. Falkowski (Rutgers), K. Fennel (Rutgers), T. Frazer (U. Florida), R. Geyer (WHOI), F. Grassle (Rutgers), J. Gryzmski (Rockerfeller U.), D. Haidvogel (Rutgers), B. Houghton (Lamont), D. Iglesias-Rodriguez (U. Southampton), A. Irwin (CUNY), C. Jones (Webb Research), William Kasch (JHU/APL), L. Kerkhoff (Rutgers), G. Kirkpatrick (Mote Marine Lab), J. Kohut (Rutgers), M. Moline (CalPoly), R. Nichols (JHU/APL), D. Porter (JHU/APL), M. Purcell (WHOI), J. Reinfelder (Rutgers), C. Thoroughgood (U. Del.), S. Tozzi (VIMS), J. Trowbridge (WHOI), M. Twardowski (URI), C.s von Alt (WHOI), D. Webb (Webb Research), A. Weidemann (NRL), J. Wiggins (Princeton), J. Wilkin (Rutgers), P. Zhang (Rutgers), M. Zuo (UMass).

**Graduate and Postdoctoral Advisors:** Barbara Prézelin (Ph.D.) – UCSB, David Millie (Post-doctoral) – Agricultural Research Service **Thesis Advisor and Postgraduate-Scholar Sponsor:** Students – Joe Gyzymski (Ph.D.), Felisa Wolfe (Ph.D), Trisha Bergmann (Ph.D.), Zoe Finkel (Ph.D.), Mathew Oliver (Ph.D.) – Rachael Sipler (Ph.D.) – Alex Kahl (PhD.) – Xu Yi (PhD) Post-docs – Mark Moline, Yu Gao, Antionetta Quigg, Elena Litchman, Lin Jhang, Matt Oliver, Martin Montes, Renato Castaleo

#### **Honors and Awards:**

Antarctic Service Medal (1988), University Research SCUBA certification (1988), University of California at Santa Barbara Travel Award (1992), University of CA Regents Fellowship Award (1992), Invited Scientist National Academy of Sciences and Max Planck for the German-American Frontiers of Science, Munich Germany (1997), Invited Participant National Academy of Sciences and Japan Science & Technology Corporation (JAMSTEC), Japanese-American Frontiers of Science Symposium (1999), Rutgers University Faculty Academic Service Increment Program (FASIP) Award (1998-2007), NJ State Legislation Resolution Assembly Resolution No. 209 recognizing RU COOL as a state resource (2003), Rutgers Cook College TEAM Award (2006), Technology Collaboration Award by the Naval Research Lab at Stennis Space Center (2007)