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A. PROFESSIONAL PREPARATION

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

B. APPOINTMENT

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
1995-Present Adjunct Research Scientist, Mote Marine Laboratory, Sarasota, FL

C. SELECTED PUBLICATIONS (OUT OF OVER 140 PUBS) (GRADUATE STUDENT OR POST DOCS)**

5 most closely related to the proposed project

- 1) **Schofield, O.**, Glenn, S., Orcutt, J., Arrott, M., Brown, W., Signell, R., Moline, M. A., Chao, Y., Chien, S., Thompson, D., Balasuriya, A., Oliver, M. 2010. Automated sensor networks to advance ocean science. *Transactions of the American Geophysical Union*, 91(39): 345–346, <http://dx.doi.org/10.1029/2010EO390001>.
- 2) **Schofield, O.**, Ducklow, H. W., Martinson, D. G., Meredith, M. P., Moline, M. A., Fraser, W. R. 2010. How do polar marine ecosystems respond to rapid climate change? *Science* 328, 1520 <http://dx.doi.org/10.1126/science.1185779>
- 3) **Schofield, O.**, Kohut, J., Glenn, S., Morell, J., Capella, J., Corredor, J., Orcutt, J., Arrott, M., Krueger, I., Meisinger, M., Peach, C., Vernon, F., Chave, A., Chao, Y., Chien, S., Thompson, D., Brown, W., Oliver, M., Boicourt, W. 2010. A regional Slocum glider network in the Mid-Atlantic coastal waters leverages broad community engagement. *Marine Technology Society* 44(6): 64-74.
- 4) ****Kahl, A., Fraser, W., Schofield, O.** 2010. Autonomous gliders reveal water column features associated with Adélie penguin foraging. *Integrative and Comparative Biology* <http://dx.doi.org/10.1093/icb/icq098>
- 5) ****Montes-Hugo M., Doney, S., Ducklow, H., Fraser, W., Martinson, D., Stammerjohn, S., Schofield, O.** 2009. Climate induced along-shelf changes in phytoplankton communities of West Antarctic Peninsula. *Science* RE1164533/CJH

5 other selected publications

- 6) Oliver, M., Bidle, K., **Schofield, O.** 2010. Density dependent expression of a diatom retrotransposon. *Marine Genomics*. <http://dx.doi.org/10.1016/j.margen.2010.08.006>
- 7) Ballantyne F., **Schofield, O.**, Levin, S. A. 2011. Featured article: The emergence of regularity and variability in marine ecosystems: The combined role of physics, chemistry and biology. *Scientia Marina* 75(4): 719-731. <http://dx.doi.org/10.3989/scimar.2011.75n4719>

- 8) **Yi, C., Grobunov, M., **Schofield, O.**, Falkowski, P. G. 2011. Energy storage efficiency of photosynthesis in *Chlamydomonas reinhardtii* based on microsecond photoacoustics. *Photosynthesis Research* 108:215–224. <http://dx.doi.org/10.1007/s11120-011-9682-9>
- 9) Cermeno, P., Baek-Lee, J., Wyman, K., **Schofield, O.**, Falkowski, P. G. 2011. The frequency of nutrient pulses controls the rate of competitive exclusion in phytoplankton. *Marine Ecology Progress Series* <http://dx.doi.org/10.3354/meps09088>
- 10) ** Zhang, G., Wilkin, J. L., **Schofield, O.** 2010. Simulation of water age and residence time in New York Bight. *Journal of Physical Oceanography* <http://dx.doi.org/10.1175/2009JPO4249.1>

D. SELECTED SYNERGISTIC ACTIVITIES

- 2006, 2007-2011 Board of Directors of the Canadian “Ocean Networks Canada”
- 2007-2012 Science Advisory Committee for the European EuroSITES program
- 2008-2011 Chair of the Advisory Committee for the European EuroSITES program
- 2009-2010 National Research Council Member “Ocean Infrastructure for the year 2030”
- 2009-2013 Science Steering Committee for the Southern Ocean Observing System (SOOS)

E. COLLABORATORS & OTHER AFFILIATIONS (LAST 48 MONTHS):

B. Arnone (NRL), K. Benoit-Bird (Oregon), P. Bissett (FERI), A. Blumberg (Stevens), W. Boicourt (U. MD), M. Bruno (Stevens), R. Chant (Rutgers), B. Chen (UMass), T. Dickey (UCSB), S. Doney (WHOI), H. Ducklow (MBL), P. Falkowski (Rutgers), K. Fennel (Dalhousie), B. Fraser (Polar Assoc.), T. Frazer (U. Florida), R. Geyer (WHOI), F. Grassle (Rutgers), D. Haidvogel (Rutgers), B. Houghton (Lamont), D. Iglesias-Rodriguez (U. Southampton), A. Irwin (M. Allison), C. Jones (Webb Research), L. Kerkhoff (Rutgers), G. Kirkpatrick (Mote Marine Lab), D. Martinson (LDEO), M. Moline (CalPoly), J. Reinfelder (Rutgers), D. Stenberg (VIMS), C. Thoroughgood (U. Del.), J. Trowbridge (WHOI), M. Twardowski (URI), C. von Alt (WHOI), D. Webb (Webb Research), A. Weidemann (NRL), 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:

(Total = 13) Students – Joe Gyzymski (Ph.D.) (Reno Desert Research Institute), Felisa Wolfe (Ph.D) (Rutgers), Trisha Bergmann (Ph.D.) (U. Maine), Zoe Finkel (Ph.D.) (Rutgers), Mathew Oliver (Ph.D.) (U. Delaware), Rachael Sipler (Ph.D.) (Rutgers), Alex Kahl (Ph.D.) (Rutgers), Xu Yi (Ph.D) (Rutgers), Travis Miles (Ph.D.) (Rutgers), Michael Garzio (M.S) (Rutgers), Nicole Cuorto (Current Ph.D.), Christian Laber (Current Ph.D.), Felipa Carnevale (Current Ph.D.)

(Total = 11) Post-docs – Bronwyn Cahill (Rutgers), Mark Moline (CalPoly), Yu Gao (Phycogen), Antoinette Quigg (Texas A&M), Elena Litchman (Georgia Tech U.), Lin Jhang (Rutgers), Matthew Oliver, (U. Delaware), Martin Montes Hugo, (U. of Quebec), Renato Castaleo, (U. Georgia), Alex Kahl, (Rutgers), Grace Saba (Rutgers)