

## Mary Jane Perry

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### A. Professional Preparation:

Ph.D. –1974        Scripps Institution of Oceanography, University of California, San Diego  
1974 – 1976        Lecturer, Washington University Medical School, St. Louis, Missouri

### B. Appointments:

1999 – present     Professor of Oceanography, University of Maine, Orono, Maine  
1999 – present     Affiliate Professor, University of Washington, Seattle, Washington  
1980 – 1982        Assistant and Associate Program Officer positions at NSF  
1976 – 1999        Progression of professorial ranks at University of Washington, Seattle  
1976                Assistant Professor, University of Georgia, Athens, Georgia

### C. Recent Publications:

- Perry, M. J., B. S. Sackmann, C. C. Eriksen, C. M. Lee. 2008. Seaglider observations of subsurface chlorophyll maxima off the Washington coast. *Limnology and Oceanography* 53(5, part 2): 2169-2179.
- Boss, E., D. Swift, L. Taylor, P. Brickley, R. Zaneveld, S. Riser, and M.J. Perry. 2008. Robotic in-situ and satellite based observations of pigment and particle distributions in the Western North Atlantic. *Limnology and Oceanography* 53(5, part 2): 2112-2122
- Dickey, T. D., E. C. Itsweire, M. Moline, and M. J. Perry. 2008. Introduction to the Limnology and Oceanography Special Issue on Autonomous and Lagrangian Platforms and Sensors (ALPS). *Limnology and Oceanography* 53(5, part 2): 2057-2061.
- Sackmann, B. M. J. Perry, C. C. Eriksen, and C. M. Lee. Using Seaglider to quantify variability in mid-day fluorescence quenching off the Washington coast. *Biogeosciences Discussion* 5, 2839-2865 <<http://www.biogeosciences-discuss.net/5/2839/2008/bgd-5-2839-2008.html>>.
- Boss, E., M.J. Perry, D. Swift, L. Taylor, P. Brickley, R. Zaneveld and S. Riser. 2008. Three years of continuous ocean biogeochemical data from a bio-optical profiling float. *EOS* 88 (23). June 3.
- Segee, B., C. Carter, M. J Perry, R. Blanchette, S. Winchenbach. Submitted Nov. 2007 to *Proceedings of International Association of Science and Technology for Development (IASTED)*. Visualization of large scientific data sets on a parallel system with a tiled display.
- Paul, J., C. Scholin, G. Van Den Engh, and M.J. Perry. 2007. A Sea of Microbes: *In situ* instrumentation. *Oceanography* 20(3): 70-78.
- Sackmann, B., and M. J. Perry. 2006. Ocean color observations of a surface water transport event: Implications for Pseudo-nitzschia on the Washington coast. *Harmful Algae* 5:608-619.
- Sackmann, B., L. Mack, M. Logsdon, and M. J. Perry. 2004. Seasonal and inter-annual variability of SeaWiFS-derived chlorophyll a concentrations in waters off the Washington and Vancouver Island coasts, 1998-2001. *Deep-Sea Research II* 51: 945-965.

- Daly, K.L., R.H. Byrne, A.G. Dickson, S.M. Gallager, M.J. Perry, and M.K. Tivey. 2004. Chemical and Biological Sensors for Time-Series Research; Current Status and New Directions. *Journal Marine Technology Society* 38:121-141.
- Rudnick, D.L., R.E. Davis, C.C. Eriksen, D.M. Fratantoni, and M.J. Perry. 2004. Underwater gliders for ocean research. *Journal Marine Technology Society* 38:73-84.

#### **D. Synergistic Activities**

- 2008-2011, Ocean Biogeochemistry, Scientific Steering Committee
- 2008-2009, Oceanography 2025, Steering Committee
- 2008–2010, Eurosites Oversight Committee
- 2007–2010, UNOLS Council
- 2007–2008, Co-organizer, Special Issue of Limnology and Oceanography on ALPS
- 2005–2007, Observing Steering Committee (formerly ORION Executive Steering Committee)
- 2005–2009, The Oceanography Society, Councilor for Biological Oceanography
- 2005 ACT (Alliance for Coastal Technology) fluorometry Advisory Committee
- 2004 Co-Chair of NSF Committee of Visitors' review of "Biocomplexity in the Environment"
- 2004 Member of Office of Naval Research Board of Visitors' review of Ocean Sciences
- 2004 Alliance for Coastal Technologies workshop on AUVs and gliders, invited speaker
- 2003 Co-Chair of workshop on "Autonomous and Lagrangian Platforms and Sensors"

*Innovative Teaching:* In 1980, optical and biological oceanography were distinct communities with different languages and cultures. In 1985 I developed an interdisciplinary, team-taught, intensive summer course in bio-optical oceanography that has been taught many times since; this course has played a significant role in bridging the chasm between communities and in creating a new one.

*Research:* My long-term goal is to understand the mechanisms responsible for controlling the abundance, distribution, and productivity of marine phytoplankton in the ocean. My current research focuses on the interpretation of optical data in a physiological context and on the incorporation of optical sensors into under-water, autonomous platforms for long-term ocean observations.

#### **E. Collaborators & Other Affiliations.**

##### *(i) Graduate and Post Doctoral Advisors*

Doctoral advisor: R. W. Eppley (retired). Postdoctoral advisor: O. H. Lowry, deceased.

##### *(ii) Students and Post-Doctoral Scholars supervised*

Postgraduate scholars: Emmanuel Boss (UMaine), Paula Coble (USF), Rick Reynolds (Scripps)

Ph.D. students: B. Ward (Princeton), J. Cleveland (ONR), M. Orellana (Institute for Systems Biology), D. Martin (UW), C. Roesler (UMaine), M. Culver (NOAA), B. Sackmann (Washington Department of Ecology)

M.S. students: J. Bolger, N. Navaluna, Boh-Yen Bang, J. Coleman, B. Thompson, C. Carter, A. Drzewianowski

Present graduate students: Witold Bagniewski, Nathan Briggs