

Biographical Sketch Michael F. Piehler

Personal information:

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Professional Preparation

The University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, Biology B.S.,
1990

The University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, Environmental
Sciences and Engineering, M.S.P.H, 1994.

The University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, Environmental
Sciences and Engineering, Ph.D., 1997.

Appointments

2018 **Director**, UNC Institute for the Environment
2016- **Professor**, The University of North Carolina at Chapel Hill Institute of Marine
Sciences, Department of Marine Sciences, Department of Environmental Sciences
and Engineering and the Curriculum for the Environment and Ecology
2017-2018 **Interim Executive Director**, UNC Coastal Studies Institute
2012- **Director of Graduate Studies and Admissions**, Curriculum for the Environment
and Ecology
2011- 2016 **Associate Professor**, The University of North Carolina at Chapel Hill Institute of
Marine Sciences
2005-2011 **Assistant Professor**, The University of North Carolina at Chapel Hill Institute of
Marine Sciences
1998- 2005: **Research Assistant Professor**, UNC-CH Institute of Marine Sciences

Most Relevant Products (*graduate student author advised by Piehler)

Gold, AC*, SP Thompson and MF Piehler. 2017. Water quality before and after watershed-scale
implementation of stormwater wet ponds in the coastal plain. *Ecological Engineering*,
105:240-251.
Gold AC*, Thompson SP, Piehler MF. 2017. Coastal stormwater wet pond sediment nitrogen
dynamics. *Science of The Total Environment* 609:672-81.
Smyth, AR*, MF Piehler, and JH Grabowski. 2015. Habitat context influences nitrogen removal
by restored oyster reefs. *Journal of Applied Ecology* 52 (3): 716-725.

- O'Meara, TA*, SP Thompson, MF Piehler. 2015. Effects of shoreline hardening on nitrogen processing in estuarine marshes of the U.S. mid-Atlantic coast. *Wetlands Ecology and Management* 23:385–394
- Piehler, M.F. and A.R. Smyth*. 2011. Habitat-specific distinctions in estuarine denitrification affect both ecosystem function and services. *Ecosphere* 2(1):art12.

Five Additional Products

- Baggett, LP, SP Powers, R Brumbaugh, L Coen, B DeAngelis, J Greene, B Hancock, S Morlock, B Allen, Denise B, D Bushek, J Grabowski, R Grizzle, T Grosholz, M La Peyre, M Luckenbach, K McGraw, M Piehler, S Westby, P zu Ermgassen. 2015. Setting guidelines for monitoring and evaluating the performance of oyster habitat restoration projects. *Restoration Ecology* 23: 737-745.
- Gittman, RK, FJ Fodrie, AM Popowich, DA Keller, JF Bruno, CA. Currin, CH Peterson and MF Piehler. 2015. Engineering away our natural defenses: An analysis of shoreline hardening in the United States. *Frontiers in Ecology and the Environment* 13;301-307.
- Smyth, AR*, NR. Geraldi, MF. Piehler. 2013. Oyster Mediated Benthic-Pelagic Coupling Modifies Nitrogen Pools and Processes. *Marine Ecology Progress Series* 493:23-30.
- Piehler, M.F., C.A. Currin, N.S. Hall. 2010. Estuarine intertidal sandflat benthic microalgal responses to in situ and mesocosm nitrogen additions. *Journal of Experimental Marine Biology and Ecology* 390:99-105.
- O'Connor, M.I., M.F. Piehler, D.M. Leech, A. Anton, and J.F. Bruno. 2009. Warming and resource availability shift food web structure and metabolism. *PLoS Biology* 7(8): e1000178.

Synergistic Activities

- Associate Editor, *Estuarine Coastal and Shelf Science* (2014-2017)
- Chesapeake Bay Oyster-Nitrogen Workshop, Wachapreague, VA, 1/13
- National Oyster Goals Project Science Advisory Team, The Nature Conservancy, 1/11-
- The Nature Conservancy/US Fish and Wildlife Service Climate Change Adaptation Project Scientific Advisory Committee, 9/10-1/12
- Albemarle-Pamlico National Estuary Partnership Science and Technical Advisory Committee, 2006-2018
- Executive committee, 2008-2018