

Biographical Sketch Michael F. Piehler

Contact information:

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Professional Preparation

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

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

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

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 Environment, Ecology, and Energy Program
July 2020- **Chief Sustainability Officer** and **Special Assistant to the Chancellor for Sustainability**, The University of North Carolina at Chapel Hill
2017-2018 **Interim Executive Director**, UNC Coastal Studies Institute
2012-2018 **Director of Graduate Studies and Admissions**, Curriculum for the Environment and Ecology
2011- 2016 **Associate Professor**, UNC at Chapel Hill Institute of Marine Sciences
2005-2011 **Assistant Professor**, UNC at Chapel Hill Institute of Marine Sciences
1998- 2005: **Research Assistant Professor**, UNC at Chapel Hill Institute of Marine Sciences

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

Gold, AC*, SP Thompson and MF Piehler. 2019. The effects of urbanization and retention-based stormwater management on coastal plain stream nutrient export. Water Resources Research, in press.

Gold, AC*, SP Thompson and MF Piehler. 2019 Nitrogen cycling processes within stormwater control measures: A review and call for research. Water Research 149:278-287.

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.

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.

Piehlér, 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

Gold AC*, Thompson SP, Piehlér MF. 2017. Coastal stormwater wet pond sediment nitrogen dynamics. *Science of The Total Environment* 609:672-81.

Gittman, RK, FJ Fodrie, AM Popowich, DA Keller, JF Bruno, CA. Currin, CH Peterson and MF Piehlér. 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. Piehlér. 2013. Oyster Mediated Benthic-Pelagic Coupling Modifies Nitrogen Pools and Processes. *Marine Ecology Progress Series* 493:23-30.

Piehlér, 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. Piehlér, 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

North Carolina Sea Grant Advisory Board, 7/18-

Southeast Coastal Ocean Observing Regional Association Board of Directors, 6/18-
Executive Committee, 7/20-

Associate Editor, *Estuarine Coastal and Shelf Science* (2014-2017)

Albemarle-Pamlico National Estuary Partnership Science and Technical Advisory Committee, 2006-2018; Executive committee, 2008-2018

National Oyster Goals Project Science Advisory Team, The Nature Conservancy, 1/11-17