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Professional Preparation

Dartmouth College	Hanover, NH	Biology	A.B. 1993
Duke University School of Law	Durham, NC	Law	J.D. 1996

Appointments

PENNSYLVANIA STATE UNIVERSITY, University Park, Pennsylvania

Associate Research Professor. 2017 to present.

Associate Director of Partnerships and Engagement, Institute for Sustainable Agriculture, Food, and Environmental Science. 2020 to present.

Director, Agriculture and Environment Center. 2013 to present.

Director, Lower Susquehanna Initiative, Agriculture and Environment Center. 2010 to 2013.

CHESAPEAKE BAY FOUNDATION, Harrisburg, Pennsylvania

Pennsylvania Staff Attorney. 2006 to 2010.

CITIZENS FOR PENNSYLVANIA’S FUTURE, Harrisburg, Pennsylvania

Staff Attorney, Watershed Issues. 2003 to 2006.

PA DEPARTMENT OF ENVIRONMENTAL PROTECTION, Harrisburg, Pennsylvania

Assistant Counsel, Southcentral Region. 1999 to 2003.

McNEES, WALLACE & NURICK, Harrisburg, Pennsylvania

Associate. 1998 to 1999.

U.S. DISTRICT COURT, DISTRICT OF RHODE ISLAND, Providence, Rhode Island

Law Clerk to the Honorable Ernest C. Torres. 1996 to 1998.

Selected Publications

- Opalinski, N., D. Schultz, T. Veith, M. Royer, H. Preisendanz. 2022. Meeting the Moment: Leveraging Temporal Inequality for Temporal Targeting to Achieve Water-Quality Load-Reduction Goals. *Water*. 2022; 14(7), 1003. doi.org/10.3390/w14071003.
- Duncan, J., Z. Respass, W. Ryan, R. Austin, M. Royer, D. Osmond, P. Kleinman. 2021. The Agricultural Conservation Planning Framework: Opportunities and challenges in the eastern United States. *Agricultural & Environmental Letters*. 6(3) e20054. doi.org/10.1002/ael2.20054.

- Royer MB, Brooks RP, Shortle JS, Yetter S. 2020. Shared discovery: A process to coproduce knowledge among scientists, policy makers, and stakeholders for solving nutrient pollution problems. *J Environ. Qual.* 2020;1-11. doi.org/10.1002/jeq2.20025.
- Opalinski, N., D. Schultz, H.E. Gall, and M. Royer. 2016. Development of a decision-making framework for BMP design to reduce loads during "hot moments". St. Joseph, MI. ASABE. doi:10.13031/aim.20162456929. Conference Paper.
- Royer, M. 2015. Citizen Suits in Pennsylvania. In T. Bossert and J. Burcat Eds., *Pennsylvania Environmental Law and Practice*, 8th ed. Pennsylvania Bar Institute.
- Fowler L., M. Royer, and J Colburn. 2013. Addressing Death by a Thousand Cuts: Legal and Policy Innovations to Address Nonpoint Source Runoff. *Choices* 28(3).
- Royer, M.B. 1996. Halting neotropical deforestation: Do the forest principles have what it takes? *Duke Environmental Law and Policy Forum.* 6(1), 105-156.

Selected Relevant Synergistic Activities

- Co-PI of “Thriving Agricultural Systems in Urbanized Landscapes” (Thriving Ag) and co- leader of shared discovery engagement of agricultural stakeholders involved in this participatory research project with multi-disciplinary research team exploring solutions for reaching agriculture productivity and environmental sustainability goals to achieve thriving agricultural systems within rural landscapes, using the Chesapeake Bay watershed as a case study region (USDA AFRI funded) (2019-2025).
- PI for the Lower Susquehanna Regional Partnership a watershed-based collaborative engagement partnership where we facilitate diverse watershed partnerships in priority adjacent watersheds to accelerate adoption of land management practices to improve water quality (Conewago Creek Conservation Collaborative Initiative, NFWF funded, 2009-2013; Chiques Creek Re-envisioned, NFWF funded, 2016-2020; Chiques-Conoy-Regional Partnership, NFWF funded, 2020-2025; Lower Susquehanna Regional Partnership, NFWF funded, 2023-2026).
- Facilitate policy-related stakeholder collaborations to define visions, strategies and innovative solutions for achieving agriculture in balance: a thriving agricultural industry while meeting priority water quality goals. (Pennsylvania in the Balance Conferences 2016, 2019, 2022).
- Team leader of shared discovery engagement of stakeholders involved in participatory research with multi-disciplinary research team exploring innovative solutions in nutrient polluted watersheds through the Center for Nutrient Pollution Solutions, with a case study focus of small watersheds in the Chesapeake Bay (EPA funded) (2013-2018).
- Represent College in collaborative development of Pennsylvania’s strategies for meeting Chesapeake Bay goals (Co-Chair, Agriculture Workgroup, Phase 3 Watershed Implementation Plan Steering Committee, 2017-2019; Action Leader, Statewide Implementation Team, 2020-present).
- Develop and lead Chesapeake Bay-focused and study abroad courses for undergraduates that provide experiential learning, immersion and community-based engaged scholarship around land impacts to water quality, ERM 429 (The Chesapeake Bay Watershed: Issues and Careers in Complex Environmental Problem Solving) (2014-present); ERM 499B (The Chesapeake Bay and Baltic Sea: Exploring Global Lessons Learned for Water Quality Improvement Efforts, 2016, 2019).