

PERSONAL DETAILS

Name Sarah Lane
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EXPERIENCE

October 2012 - present

University of Maryland Center for Environmental Science, Maryland Department of Natural Resources
Annapolis, MD

Senior Faculty Research Assistant

- Integrate emerging data to direct the development of programs to prioritize restoration strategies and highlight how policy, regulation and legislation can enhance the implementation of cost effective best management practices
- Coordinate the Trust Fund Scientific Advisory Panel to evaluate restoration strategies and policies that enhance Bay restoration under the State's Watershed Implementation Plan
- Initiate proactive change in law, regulation, funding strategies, policy and program implementation related to Chesapeake Bay conservation and restoration
- Lead the State's efforts in identifying new restoration practices for water quality restoration through the State's Innovative Technology Partnership
- Oversee and mentor a NOAA Coastal Zone Management Fellow to identify suitable areas for natural filter best management practices (BMPs) and evaluate how potential climate change impacts (e.g. sea level rise) should be considered in site selection

April 2009 September 2012

*University of Maryland College Park, Maryland Department of Natural Resources
Annapolis, MD*

Natural Resource Planner

- Lead for the Department on MD's Clean Bay Power RFP for manure-to-energy generation
- Manage Maryland's Innovative Technology Fund to ensure the state is on the cusp of the most cost effective and efficient best management practices
- Review project proposals for various state and federal design and implementation grants
- Provide informed review on legislation pertaining to water quality, renewable energy, funding strategies and waste products
- Collaboratively work to develop Maryland Assessment and Scenario Tool, Sea Grant's Residential Tracker and Crediting Tool and Watershed Stewards Academy tracking tool
- Collect data to brief and advise state agency leadership on various BayStat issues; especially, P-Site Index, two year milestones, Watershed Implementation Plan reduction strategies and contingencies, and best management practice effectiveness
- Represent DNR at the Bay Program's Watershed Technical Workgroup, Urban Stormwater Workgroup, Agricultural Workgroup, Scientific and Technical Advisory Committee, and

Water Quality Goal Implementation Team

September 2006 March 2009

*University of Maryland, Mid-Atlantic Water Program
College Park, MD*

BMP Project Leader

- Developed definitions for natural filter, urban stormwater and agricultural best management practices and their associated nitrogen, phosphorus and sediment reduction efficiencies
- Established a scientifically-rigorous approach for development of definitions and effectiveness estimates by reflecting the average operational conditions
- Conducted scientific literature search on BMP reduction effectiveness estimates and coordinated reviewed for inclusion in Chesapeake Bay Watershed Model

August 2004 August 2006

*Chesapeake Research Consortium, Chesapeake Bay Program Office
Annapolis, MD*

Nutrient Subcommittee Fellow

- Contributed information on state implementation programs and evaluated data needs
- Organized summits on urban stormwater and agricultural best management practice implementation barriers
- Provided staff support to Nutrient Subcommittee and its Tributary Strategies, Forestry, Sediment, Point Source, Urban Stormwater and Agricultural Workgroups

August 2003 July 2004

*Center for Watershed Protection
Ellicott City, MD*

Intern

- Assisted with Baltimore County Stormwater Roundtable
- Reviewed local government and municipality codes and ordinances for environmental site design
- Conducted literature reviews and edited the Urban Subwatershed Restoration Manual Series and Urban Watershed Forestry Manual Series

EDUCATION

May 2007

M.S. in Environmental Sciences and Policy
Johns Hopkins University, Baltimore, MD

Thesis: Incorporating Best Management Practice Effectiveness Estimates into Trading Policy

Courses in: Strategies in Watershed Management, Environmental Policymaking and Policy Analysis, Hydrology and Water Resources, Coastal Geology and Policy, Practicum in Environmental Planning

May 2004

B.S. in Geography and Environmental Systems
University of Maryland Baltimore County, Catonsville, MD

SELECT PRESENTATIONS

"Best Management Practice Use and Nutrient Management in Maryland: A 2010 Snapshot", National Water Conference: Land and Sea Grant Initiatives for a Changing World. Portland, OR, May 2012.

"Uncharted Territory: The Importance of Investing in New Ideas to Restore Water Quality", Maryland Water Quality Monitoring Conference. Linthicum, MD, December 2011.

"Investing in Innovative Technology for Chesapeake Bay Restoration", EMECS9 Managing for Results in Our Coastal Seas. Baltimore, MD, August 2011.

"The Innovative Technology Fund", Coastal Zone Conference 2011. Chicago, IL, July 2011.

"Enhancing Management, Coordination and Accountability of BMP Definitions and Effectiveness Estimates Utilizing an Adaptive Management Approach", AWRA 2009 Summer Specialty Conference Adaptive Management of Water Resources II. Snowbird, Utah, June/July 2009.

"Developing nitrogen, phosphorus and sediment reduction efficiencies reflective of operational conditions", 2008 USDA-CSREES National Water Quality Conference. Reno, NV, February 2008.

SELECT PUBLICATIONS

Lichtenberg, E., Parker, D. and S. Lane. (2012). "Best Management Practice Use and Nutrient Management in Maryland: A 2010 Snapshot." University of Maryland, Center for Agricultural and Natural Resource Policy.

Simpson, T. and S. Weammert. (2009). "Developing Best Management Practice Definitions and Effectiveness Estimates for Nitrogen, Phosphorus and Sediment in the Chesapeake Bay Watershed."

Chesapeake Bay Program Office.

Simpson, T. and S. Weammert. (2008) "Revising BMP Efficiencies for the Chesapeake Bay Watershed: Challenges and Lessons Learned". American Society of Agricultural and Biological Engineers. 21st Century Watershed Technology: Improving Water Quality and Environment Conference Proceedings, 29 March - 3 April 2008, Concepcion, Chile 701P0208cd

Simpson, T. and S. Weammert. (2007). "The Chesapeake Bay experience: Learning about adaptive management the hard way." Managing Agricultural Landscapes for Environmental Quality. Soil and Water Conservation Society. pp. 159 169.

AWARDS AND HONORS

2010 Project of Excellence for the National Institute of Food and Agriculture, National Water Program. "Enhancing Management, Coordination and Accountability of BMP Definitions and Effectiveness Estimates"