

Jennifer R. Bowman

Director of Environmental Programs, Voinovich School of Leadership and Public Affairs

Ohio University, Athens, OH 45701

bowmanj2@ohio.edu; Phone (740) 597-3101; Fax (740) 593-4398

Education

1998- 2000 M.S. Environmental Geochemistry, Ohio University, Athens, OH, G.P.A. 3.8

1993- 1997 B.S. Environmental Geology, minor in Geography, Ohio University, Athens, OH, Cum Laude with Departmental Honors

Professional Experience

July 2017-present Director of Environmental Programs, Voinovich School, Ohio University

Lead staff and students working in the energy and environment team by directing applied research projects and initiatives. Seek funding to support applied environmental projects. Align research interest of faculty and students where innovative solution are needed in the state and region. Work with regional stakeholders, faculty, and students to elevate and enhance Ohio University's applied environmental research. Coordinate the watershed research efforts of the Appalachian Watershed Research Group across Ohio University.

July 2016 – 2017 Interim Director of Environmental Programs, Voinovich School, Ohio University

Lead the Energy and Environment team through transitional period. Work with regional stakeholders, faculty, and students to elevate and enhance Ohio University's applied environmental research. Coordinate the watershed research efforts of the Appalachian Watershed Research Group across Ohio University as well as the Appalachian Ohio Clean Watershed Initiative, a regional approach to improve and preserve water quality in the coal bearing region of Ohio.

July 2012 – 2016 Senior Project Manager, Voinovich School, Ohio University

Develop and manage environmental projects and programs funded by grants and contracts. Provide transformative applied learning opportunities for graduate and undergraduate students working on projects and research in the field of energy and the environment. Conduct and collaborate on-going watershed research programs with faculty, students, and staff working on projects as part of the Appalachian Watershed Research Group. Provide technical assistance for area watershed groups in the coal bearing region of Ohio (i.e. online water quality database, training, chemical and biological sampling, and monitoring plans).

2004 – 2012 Environmental Projects Manager, Voinovich School, Ohio University

Manage the Environmental Management Program involving staff and students focusing on watershed research. Perform chemical water quality data analysis, interpretation, and report writing on the various projects as part of the Appalachian Watershed Research Group at Ohio University including: managing restoration work in the Raccoon Creek Watershed, writing the annual water quality and biological recovery report for watersheds in SE Ohio where acid mine drainage restoration is active, and developing and managing an online database management system for area watershed groups.

2001 – 2004 Watershed Coordinator, Sunday Creek Watershed Group, Rural Action

Coordinate and facilitate local and state agencies and community watershed partnerships. As the coordinator of the Sunday Creek Watershed, organize meetings for the watershed group and stakeholders, conducted a water quality assessment plan, wrote state and federal grants, conducted water quality analysis, aided in data collection for OEPA Total Maximum Daily Load (TMDL) program, and implemented stream restoration projects.

Organizations

2017 - present Ohio University's Ecology and Energy Conservation Committee Member
2015 - 2017 Athens County Land Use Planning Committee Member
2012 - present Ohio University Geology Alumni Board Member
2011 - present Pack 71 Allohak Council Cub Scout Den Leader
2007-08 Raccoon Creek Partnership, chair

Brief Project Descriptions

- Director of the development of the online watershed planning tool called 'HydroVIEW' to assist with watershed project development across the Appalachian Basin. Hydrologically Visualize Impaired and Exceptional Watersheds (HydroVIEW), is rich with water quality data showing areas of impact and high quality. Ohio Environmental Protection Agency funded project, which combines multiple layers of water quality information, from a variety of state sources, to help communities and organizations in the first steps of project selection and planning. This tool has been instrumental in identifying critical areas impacted from sedimentation/lacking adequate riparian corridor cover. 2016-present.
- Director of the Rain to River Program funded by Ohio Environmental Education Fund. Worked with local non-profit agencies, soil and water conservation districts, and local communities across the Appalachian Basin in Ohio to conduct storm drain stenciling projects including the development of a guidance document, six stenciling kits, and an interactive stormwater portable exhibit. 2017-present. More information about the projects can be found at: <https://www.ohio.edu/voinovichschool/services/rain-to-river.cfm>
- Project manager of the Annual Nonpoint Source (NPS) Monitoring Project for Acid Mine Drainage (AMD) an Evaluation of Water Quality, Biology, and AMD Reclamation in Five Watersheds: Raccoon Creek, Monday Creek, Sunday Creek, Huff Run, and Leading Creek. Funded by the ODNR Division of Mineral Resources Management AMD program. 2005-present.
- Research collaborator with the Appalachian Watershed Research Group focusing on acid mine drainage in southeast Ohio. A cross disciplinary collaboration with Voinovich School, Environmental Studies, Biology, Plant Biology, and Geology. The group has brought in numerous grants from US EPA STAR program, American Electric Power, and ODNR-DMRM to fund over a decade of graduate and undergraduate research. While many more publications have resulted from the effort put forth by this group the following list of publications I have contributed to: *Environmental Earth Sciences*. 67(5): 1389-1395, *Mine Water and the Environment*. 31(4): 266-272, *Journal of Environmental Management*. 128 (2013) 1000-1011, *Mine Water and the Environment* 33:177-186, *Environmental Monitoring and Assessment* 186:4111-4127. 2004-present.
- Lead hydrogeologist and project manager for two watershed assessments, to identify sources of acid mine drainage (AMD) impacts from abandoned underground and surface coal mines in southern Coshocton and northern Muskingum Counties in Ohio. Wills Creek Reservoir and White Eyes Creek, together drain 237 sq. mile area. Funded by the Muskingum Watershed Conservancy district in partnership with Ohio Department of Natural Resources Division of Mineral Resources Management (ODNR-DMRM). 2013-2015.

- Project manager for a quality assurance quality control (QAQC) plan developed and written for surface water quality data collection and analysis methods to be used by ODNR-DMRM's AMD program and watershed partners utilizing water quality data to make AMD reclamation decisions. 2013-2015.
- Co-principal investigator of a feasibility study of a mitigation bank for both primary headwater streams and wetlands at the United State Department of Energy (DOE), Portsmouth Gaseous Diffusion Plant in Pike County, Ohio. 2013-2014.
- Co-principal investigator and project manager of a regional baseline groundwater quality report for Athens, Belmont and Surrounding Counties. Funded by the Sugar Bush Foundation. 2012-2013. Building on the 2012-2013 baseline study, the Athens County Commissioners funded a groundwater analysis near Class II injection wells in Athens County 2015-2016. Sugar Bush funded an intensive groundwater analysis near Torch, Ohio site of high quantity injected hydraulic fracturing fluids into Class II injection wells, 2016-2018.
- Lead hydrogeologist and project manager of a long-term data monitoring project on Little Raccoon Creek at river mile 12.7 during and post mining reclamation. Data collected from 2008 to 2013 and coupled with data collected by the USGS going back to 1999. Funded by Ohio Department of Natural Resources Division of Mineral Resources Management (ODNR-DMRM). Publication *Environmental Monitoring and Assessment* 186:7539-7553. 2008-2013

Certifications and Trainings

- | | |
|---------|---|
| 2018 | Renewed Ohio EPA Credible Data Program Level III Data Collector for Chemical Water Quality Assessment QDC #001 |
| 2018 | Performance Evaluation (Ohio University Human Resources, three 1-hour sessions) |
| 2016 | Data Visualization Training (Evergreen 1 day) |
| 2014 | Approved Ohio EPA Credible Data Program Level II Data Collector for Benthic Macroinvertebrate Assessment –Sample Collection, Identification, and Data Evaluation 2014-2019 |
| 2013 | R Studio training, Athens Ohio (Pascal and Porter 4 hrs) |
| 2012 | Approved Ohio EPA Credible Data Program Level II Data Collector for Stream Habitat Assessment - Habitat Evaluation Index (QHEI) 2012-2017 |
| 2012 | Qualitative Habitat Evaluation Index (QHEI) Training, Athens Ohio (Rankin 1day) 2012 Visual Sample Plan (VSP) Training Course (Pulsipher and Wilson 3 days) |
| 2012 | Approved Ohio EPA Credible Data Program Qualified Data Collector Trainer for Level II Chemical Water Quality Assessment |
| 2010 | Primary Headwater Stream Training (Schumacher and Skalski 1 day) |
| 2009 | Approved Ohio EPA Credible Data Program Level II Data Collector for Benthic Macroinvertebrate Biology and Qualified Data Collector Trainer for: Level II Chemical Assessment and Level II Benthic Macroinvertebrate Biology |
| 2008 | Approved Ohio EPA Credible Data Program Level III Data Collector for Chemical Water Quality Assessment QDC #001 |
| 2006 | Macroinvertebrate Aggregated Index for Stream (MAIS) training, Ohio University (Johnson 1day) |
| 2006 | Approved Ohio EPA Credible Data Program Level III Data Collector for Chemical Water Quality Assessment QDC #001 |
| 2002-03 | Ohio Watershed Academy for Watershed Coordinators, Ohio State University (Bonnell 6 months) |
| 2001 | Ohio EPA Qualitative Habitat Evaluation Index (QHEI) Training, Groveport Ohio (Rankin and Yoder 2 days) |
| 1999 | Field Studies in Hydrogeology and Watershed Characterization Workshop, Ohio University (Stoertz 10 days) |
| 1997 | Basin surveys and applications short-course, Utah State University (5 days) |