David J. Hirschman

AREAS OF EXPERTISE

Forty years of experience in stormwater, watershed, and water resources management. Experience in local government, non-profit, private, and academic sectors. Strong skills with water resources policy and research, stormwater design, development of BMP specifications, and program implementation. Exceptional communication skills and broad experience with outreach, training, classroom teaching, conference presentations, webcasts, and other forms of communication, ranging from keynote addresses to four-day workshops.

EXPERIENCE

Principal, *Hirschman Water & Environment, LLC* — 2014-Present

Manage small consulting business focusing on implementation of low impact development and green infrastructure projects and watershed planning, including natural resources evaluations, stormwater research, stormwater design and training, and MS4 program support.

Program Director, *Center for Watershed Protection* — 2005-2014

Managed core program areas for the Center, including stormwater and watershed services and watershed training. Developed new projects, secured funding, managed project teams, conducted work, and provided quality control. Projects involved work for government agencies at local, state, and federal levels as well as watershed organizations. Served as project manager for development of Virginia's Runoff Reduction Method and 2011/2013 of BMP specifications.

Water Resources Specialist, *Biohabitats of Virginia* — 2004-2005

Provided consulting services on innovative water management for sites and master plans, including water resources plans and ordinances, groundwater assessments, low-impact development design, identification of environmentally sensitive areas, stormwater solutions, and watershed planning. Conducted staff development, training, and education programs for municipal water resources staff, environmental organizations, and the general public.

Water Resources Manager, *Albemarle County, Virginia* — 1993-2004

Responsible for all facets of water resources program, including drinking water reservoir source water programs, stream protection, stormwater management, groundwater, comprehensive planning, policy coordination, and grants/budget management.

Environmental Policy Instructor, *Virginia Tech Department of Urban Affairs & Planning* — 1992

Designed and taught undergraduate environmental policy course covering broad range of environmental policy issues, including energy, climate, water, waste, and biodiversity.

Co-director, *Service Training for Environmental Progress, Vanderbilt University* — 1986-1987

Responsible for day-to-day operation of university-affiliated non-profit environmental agency. Delivered technical assistance to community groups on wide range of water quality, waste management, and regulatory and policy issues.

EDUCATION

Master of Urban & Regional Planning, Virginia Tech, 1999
BA, Biology, Duke University, 1983

CERTIFICATIONS
Certified Virginia Combined E&S and Stormwater Inspector
Chesapeake Bay Landscape Professional, Level 1, Level 2, and Trainer

REPRESENTATIVE PROJECTS

National Fish & Wildlife Foundation Field Liaison, 2019 – Present
Assist NFWF with stormwater project reviews, site visits, and technical assistance to applicants. Serve as a field presence for the Chesapeake Bay Stewardship Fund, focusing on urban stormwater project development and implementation.

Stormwater BMP Manuals & Specifications, 2004 -- Present
Served as project manager and team members for development of stormwater BMP design and maintenance manuals for Virginia, West Virginia, Georgia, New York, Maryland Watershed Stewards Academy, Guam and Mariana Islands, Lake Champlain Basin, Chagrin River Basin in Ohio, and others. Included various training workshops and design charettes to engage stakeholders in applying new standards.

Stormwater and Green Infrastructure Design, ongoing
Work with teams to perform preliminary design and construction documents, specifications, bid documents, pollutant removal computations, and cost estimates. Provide construction support and inspections, and post-construction performance evaluations. Practices in my portfolio include constructed wetlands, bioretention, vegetated swales, rainwater harvesting, permeable pavement, stormwater basin retrofits, and land use change BMPs.

Chesapeake Bay Landscape Professional Certification, 2017 – Present
Helped develop curriculum and serve as lead stormwater instructor for sustainable landscaping and stormwater BMP certification credential. Have led classes in over twenty-five jurisdictions across the Chesapeake Bay Watershed.

SELECTED BOOK CHAPTERS, GUIDANCE MANUALS, PAPERS & PRESENTATIONS
Hirschman, D., Hathaway, J., Lindow, K., Aguilar, M., Schueler, T., *Updating the Runoff Reduction Method,* for Metro Government of Nashville & Davidson County, Tennessee, Metro Water Services, 2018.

Hirschman Water & Environment, LLC, *Performance Enhancing Devices for Stormwater BMPs: Fact Sheet for Internal Water Storage, Water Treatment Residuals, Biochar, and Vegetation,* for Center for Watershed Protection, 2018.

Hirschman, D. and Battiata, J., *Urban Stormwater Management: Evolution of Process and Technology*, chapter in Sustainable Water Management in Urban Environments, Ed. Dr. Tamim Younos and Dr. Tammy Parece, Springer International Publishing, 2016.

Hirschman, D., Caraco, D., and Drescher, S., Linking Stormwater and Climate Change: Retooling for Adaptation, Watershed Science Bulletin, Association of Watershed & Stormwater Professionals, Spring, pp. 11-18, 2011.

Hirschman, D. and Kosco, J., Managing Stormwater in Your Community: A Guide for Building an Effective Post-Construction Program, EPA Publication No. 833-R-08-001, 2008.

PANELS, BOARDS, AND ADVISORY GROUPS
Chesapeake Bay Stakeholder Advisory Group, 2014 – 2021 & 2022 -- present

Virginia Conservation Assistance Program Technical Advisory Committee, 2016 -- Present

South River Science Team, Expert Panel, Virginia Department of Environmental Quality, DuPont, Inc., 2010 – present.