

William E. (Bill) Roper is an adjunct Professor with the College of Science at George Mason University and an expert in multiple technologies and methodologies that have engineering, environmental and public policy applications.

Bill has spent a lifetime engaged in Civil & Environmental Engineering and Public Policy. He has developed and led major R&D programs in areas such as dredging operations, wetlands, construction productivity, invasive species control, energy efficiency and geospatial technology.



For many years, Bill served as the Director of the U.S. Army Corps of Engineers Worldwide Civil Works Research and Development Program as a Senior Executive Service (SES) official. He also served as director of the U.S. Army Topographic Engineering Center (TEC). Bill's professional experience includes senior management positions in the U.S. Department of Transportation, U.S. Environmental Protection Agency, U.S. Army, Arlington County Government, academia and the private sector.

Additionally, Bill has been active with the Water Science and Technology Board, the Infrastructure and Constructed Environment Board, and the Transportation Research Board of the National Academy of Engineering.

Other Experience

- Professor and Chair Civil and Environmental Engineering Department, George Washington University. Visiting Professor at Johns Hopkins University.
- Director of the Environmental Services Department, Arlington County, Virginia. As Director, Bill managed public works programs, wastewater treatment operations, water distribution, transportation programs, engineering design and construction programs, and other environmental-public works related county operations.
- Chief Environmental Officer, Arlington County, Virginia
- Chief Technical Advisor, S&M Engineering, LLC, Crofton, Maryland
- Science and Technology Advisor to the NGA Commercial Imagery Office, EPA Wastewater Management Office and NIST Building and Fire Laboratory
Appointed to the National Academies Committee for Protection of Critical Transportation Infrastructure & chair of the subcommittee on technology research, development and deployment.
- CEO LMG Energy LLC, developing renewable energy systems for Africa
President and Founding Director of the Rivers of the World Foundation, a nonprofit organization dedicated to the improvement and protection of the world's rivers and lakes.
- Commander, 160th R&D detachment 80th USAR Division, Fort Belvoir Virginia.
Senior Faculty member Applied Technology Institute teaching classes on hyperspectral and multi-spectral image analysis at locations throughout the United States.
- Author of more than 150 technical papers on engineering, technology and public policy.

Education

- PhD, Michigan State University
- MS, University of Wisconsin
- BS, University of Wisconsin
- Federal Executive Development Program
- Federal Executive Institute
- The Harvard Senior Managers in Government Program
- Army Command and General Staff College
- Air Force War College

Professional certifications

- Registered professional engineer, Wisconsin

Memberships and citations

- Federal Senior Executive Service
- NW York Academy of Sciences
- American Society of Civil Engineers
- Society of American Military Engineers
- American Society of Engineering Education