



west virginia department of environmental protection

5th Annual WVDEP Water Resource Conference Agenda

Thursday, September 20, 2018 - WVDEP Coopers Rock Conference Room

8:00 am to 8:15 am: Welcoming and Orientation (Brian A. Carr)

8:15 am to 9:00 am: GIS and Computer Advances in Water Use Section (Fini Stanton)

9:00 am to 9:45 am: Water Assessment Branch – Trends in Water Quality (John Wirts)

9:45 am to 10:30 am: Stream Classification and Pollution Control (Laura Cooper)

10:30 am to 11:15 am: Geophysical Well Logging (Mitch Macadoo)

11:15 am to 12:00 pm: WV Division of Natural Resources (Danny Bennett)

12:00 pm - Free Lunch

12:30 pm to 1:30 pm: Keynote Speaker

**Major General James A. Hoyer, Office of the Adjutant General,
West Virginia National Guard**

1:30 pm to 2:00 pm: 30 minute break

2:00 pm to 2:45 pm: Source Water Protection (Todd Cooper)

2:45 pm to 3:30 pm: Drones for Watershed Delineation (Mike Shank)

3:30 pm to 4:15 pm: WVDEP Stormwater Construction Permitting (Jon Michael Bosley)

4:15 pm to 5:00 pm: Water Resources in Karst Regions (Nick Schaer)

KEYNOTE SPEAKER

MG James A. Hoyer, Adjutant General, West Virginia Army and Air National Guard

Major General James A. Hoyer assumed the duties as The Adjutant General, West Virginia Joint Forces Headquarters-West Virginia on 1 February 2011. As the Adjutant General, State of West Virginia, he provides command guidance and vision to the West Virginia Army and Air National Guard of more than 6,500 Citizen Soldiers and Airmen. He provides the overall supervision of the day to day operations and management of the readiness, fiscal, personnel, equipment and the real property resources of the agency. General Hoyer received his undergraduate degree from the University of Charleston and was commissioned in 1983 through a joint Reserve Officer Training Corps program with West Virginia State University. General Hoyer began his military career in the West Virginia National Guard as a Cavalry Officer. He attended the Special Forces Officer Qualification course and spent over 14 years with the 2nd Battalion, 19th Special Forces Group. General Hoyer led the development of the West Virginia National Guard Counterdrug Task Force and the Joint Interagency Training and Education Center and its Center for National Response; a national level operational and training capability for critical infrastructure protection and consequence response. General Hoyer's most recent assignment was Director, Joint Staff, West Virginia Joint Force Headquarters.

PRESENTERS IN ALPHABETICAL ORDER

Danny Bennett, West Virginia Division of Natural Resources

Danny Bennett was born and raised in Richmond, Virginia but his family has a long history in West Virginia with roots in the Beckley and Shinnston areas. After marrying Tina, they packed up and relocated to Knoxville, Tennessee where he attended the University of Tennessee earning his Master of Science degree working with black bass on Norris Reservoir. After graduation, he worked as a contractor for the Tennessee Valley Authority conducting IBI surveys in the Clinch/Powell watersheds. He accepted the position of Coordination Biologist with the West Virginia Division of Natural Resources in 1998. While at WVDNR he has received training in wetland delineation and completed the Rosgen Natural Stream Design courses (I-IV). His responsibilities include coordinating agency responses to 404/401 permits, commenting on NEPA documentation for projects throughout the state, representing the agency at a variety of meetings/workshops. He currently serves as the Supervisor of the Coordination Unit.

Jon Michael Bosley, West Virginia Department of Environmental Protection

Jon Michael Bosley is the Stormwater Permitting Supervisor for the West Virginia Department of Environmental Protection Stormwater Program (WVDEP). The stormwater team handles permitting for stormwater activities throughout the state to meet the agency's goals. He oversees 4 programs: Construction Stormwater, Oil & Gas Construction Stormwater, Multi-Sector, and MS4 (Municipal Separate Storm Sewer Systems). He holds a bachelor's degree in Environmental Geoscience from West Virginia University and a master's degree in Geography from Oregon State University. Jon Michael has been employed by the WVDEP since 2011.

Laura Cooper, West Virginia Department of Environmental Protection

Laura Cooper is an Assistant Director of the Division of Water and Waste Management for the West Virginia Department of Environmental Protection. She manages the Water Quality Standards program and oversees the state's 401 Water Quality Certification program. Laura attended West Virginia University, where she earned a Bachelor of Science in Environmental Protection and a Master of Public Health. Before

coming to DEP in 2012, she conducted groundwater research for the United States Department of Agriculture. In her role as Water Quality Standards program manager, Laura works with DEP staff, the general public, the regulated community, the West Virginia Legislature, and U.S. EPA to set standards of water quality for the state of West Virginia.

Todd Cooper, Bureau for Public Health-West Virginia Department of Health and Human Resources

Todd Cooper is a native West Virginian who holds a bachelors in geology and a master's in physical and applied science from Marshall University. He has spent the past 10 years working as a geologist and hydrologist in mining, engineering consulting and government, working on a range of projects from mine development and reclamation to groundwater and surface water research projects. He is currently assistant program manager for the West Virginia source water assessment and wellhead protection program.

Mitchell A. McAdoo, U.S. Geological Survey VA and WV Water Science Centers

Mitch McAdoo received a BS in Geology from Clarion University of Pennsylvania and MS in Geology from West Virginia University. He is currently conducting groundwater resource studies throughout the United States as a hydrologist with the U.S. Geological Survey's Virginia and West Virginia Water Science Center. He is based in Charleston West Virginia and Project Chief on the center's borehole geophysics program and abandoned underground coal mine aquifer water-quality project which are cooperatively administered by the USGS and WVDEP.

Nick Schaer, West Virginia Department of Environmental Protection

Nick has a BS in geology from the Ohio State University. He has worked as a state geologist for 29 years, predating the creation of the WVDEP by several years. Presently, he is Program Development Geologist for the WVDEP Division of Mining and Reclamation and Senior Karst Analyst for the WVDEP. He is coauthor of the "Caves and Karst of Mercer and Summers Counties, West Virginia". He has actively analyzed MVP, ACP and other major gas pipelines for potential karst interactions for the WVDEP. Nick Schaer also teaches Mobile GIS, GIS and GPS technology for the WVDEP and the federal Division of Interior.

Michael Shank, West Virginia Department of Environmental Protection

Michael Shank has been the Geographic Information Systems Manager at the West Virginia Department of Environmental Protection since 2012. He holds a Master's Degree in Geography from West Virginia University, and has been a certified GIS professional (GISP) since 2007. He also a member of the American Society for Photogrammetry and Remote Sensing (ASPRS) since 1992, and is a charter member of the West Virginia Association of Geospatial Professionals (WVAGP).

Fini Stanton, West Virginia Department of Environmental Protection

Fini is an Environmental Resources Specialist II for the West Virginia Department of Environmental Protection's Water Use Section. Fini attended the University of North Carolina at Greensboro, earning a Bachelor of Arts degree in Geography with a concentration in Environmental Studies and GIS. Fini started her career as a GIS specialist through Americorps where she assisted with the federally funded Geomine project for WVDEP's DMR and AML departments, modernizing retention of mining data for analysis and archiving purposes and improving transferability of state mining data to OSMRE. Fini worked for Environmental Resources Management (ERM) as a GIS Specialist and CAD drafter before returning to WVDEP as an ERS II in 2015. Her primary projects include developing GIS web applications that intuitively display GIS data of West Virginia's water resources.

John Wirts, West Virginia Department of Environmental Protection

Mr. John Wirts is Assistant Director of the Watershed Assessment Branch, Division of Water and Waste Management, West Virginia Department of Environmental Protection. Graduated from Marshall University with a B.S. degree in Zoology and an M.S. in Biological Sciences. After working as a fish biologist intern with ORSANCO (Ohio River Valley Water Sanitation Commission), and as an aquatic biologist with various EPA contractors supporting stream monitoring efforts in the Mid-Atlantic region and toxicity studies at EPA's Cincinnati - Newtown Lab, returned to West Virginia to work with the WVDEP Watershed Assessment Program in 1997. Work with WVDEP has included stream assessments, benthic macroinvertebrate identifications and IBI development, database management, report writing, and GIS work. Served as the program manager of the Watershed Assessment Section from 2001 until 2011, at which time the responsibilities of managing TMDL development were added. Primary duties include: working with technical and professional support staff in the planning, organizing, and implementing the work of the statewide water quality monitoring efforts of WVDEP; oversight of the development of WV's Integrated Reports (303(d)/ 305(b)); coordination of program activities in support of permitting (water and mining) and enforcement decisions and water quality criteria development needs; and coordination of program efforts in support of other agencies including USGS, USEPA, WVDNR, and WV DHHR.