



Presenters

Daniel Doctor, USGS Research Geologist

Dan Doctor specializes in the study of karst regions. His research interests include the hydrology and geochemistry of karst aquifers, the assessment of sinkhole hazards, the evolution of karst landscapes, and the generation of paleoclimate records from karst areas. Dan holds a Bachelor of Arts in Geology from Colgate University and a Doctorate in Hydrogeology from the University of Minnesota with a doctoral minor in Water Resources. Dan is a fellow of the Cave Research Foundation, has served on the board of the Karst Waters Institute, and was appointed by the Governor of Virginia to the Virginia Cave Board.

Joel Maynard, DEQ Hydrogeologist

Joel Maynard is a hydrogeologist with the DEQ's Groundwater Characterization Program. He has worked in western Virginia for the past 23 years, collecting, evaluating, and interpreting data related to the quality and quantity of groundwater in Virginia's Valley and Ridge and Appalachian Plateau provinces. He has inventoried, collected data, and analyzed springs, developing a dataset describing the locations of springs throughout the Commonwealth. Joel obtained his Bachelor's and Master's degrees in Geological Science from Virginia Tech and worked as a consultant before joining DEQ in 2001.

Mark Kozar, USGS Hydrologist

Mark Kozar serves as the USGS Virginia and West Virginia Water Science Center's groundwater specialist and has conducted numerous hydrogeologic investigations over his 39-year career with the agency. In recent years, he has developed numerical groundwater flow models and researched processes controlling groundwater flow in fractured rock aquifers. His most recent investigations include studies on groundwater flow and quality of underground coal mines used as a source of public and residential water supply in southern West Virginia; a karst hydrogeologic investigation for Monroe County, West Virginia; and an assessment of groundwater quality in areas of active Marcellus Shale oil and gas production in northwestern West Virginia. He is currently working on a statewide assessment of fractured rock aquifers in West Virginia. Mark holds Bachelor's and Master's degrees in Geology from West Virginia University.

Jimmy Webber, USGS Hydrologist

Jimmy Webber works as part of the USGS Virginia and West Virginia Water Science Center, primarily on nutrient and sediment transport studies in the Chesapeake Bay watershed. His research interests include understanding the fate and transport of surface water contaminants through coupled monitoring and modeling activities. He seeks to understand how in-stream conditions change over time and what drives such changes. He is currently assessing the effects of watershed management in urban and agricultural settings. He holds a Master of Science degree in Forest Resources from the Pennsylvania State University.

Wil Orndorff, DCR Karst Protection Coordinator

Will Orndorff has worked for more than 25 years with the DCR Virginia Natural Heritage Program to manage and protect Virginia's karst landscapes. He is working to further develop the biological inventory of Virginia's caves for prioritizing conservation. He also uses dye tracing to characterize karst waters for habitat protection and has provided guidance on stormwater management in karst to both private and public stakeholders. He is co-author with Virginia Cave Board Chair Bob Denton of "Site Assessment and Design Guidelines for Stormwater Management in Karst, Virginia," Appendix E of the Virginia DEQ Stormwater Management Handbook, to be released July 1, 2024. He holds a Master's degree in Geology from Virginia Tech with emphasis in Structural Geology and Tectonics.