

Western MA June 2023 Membership Meeting

Recent Developments in Groundwater Modeling and Sampling in Massachusetts

Presenter Bios

David Boutt, Ph.D., Professor in the Department of Earth, Geographic, and Climate Sciences at the University of Massachusetts-Amherst

David Boutt is a Full Professor in the Department of Earth, Geographic, and Climate Sciences at the University of Massachusetts-Amherst. He received B.S. and M.S. degrees from the Department of Geological Sciences at Michigan State University in 1997 and 1999. He earned his Ph.D. in Hydrology from the New Mexico Institute of Mining and Technology (Socorro, New Mexico, USA) in 2004 and held a postdoctoral position at Sandia National Laboratories before joining the faculty at UMass-Amherst in 2005.

Dr. Boutt is a computational hydrogeologist and has published numerous articles about the hydrology and hydrogeology of the New England region. He leads a research group focused on improving the physical understanding of subsurface water storage in different hydrologic environments. Ultimately the research group is motivated to integrate knowledge of hydrological systems to allow different stakeholders to make the best decisions for the sustainable management of earth resources. A key focus of his current work involves the extraction of lithium from salar and brine systems in Argentina, Canada, Chile, and the Great Basin of the western United States.

Johnny Mitchell, Chief Technology Officer for Pace Analytical Services LLC, Nashville, TN

Johnny Mitchell is the Chief Technology Officer for Pace® and is responsible for establishing Corporate technical goals and strategies to ensure consistent quality, compliance and performance by the organization.

Mr. Mitchell has over 25 years' experience in the environmental analytical and laboratory fields and is a respected expert in groundwater chemistry and petroleum hydrocarbon programs. Mr. Mitchell is an experienced chemist proficient in both organic and inorganic methods and in analytical data validation. Mr. Mitchell has been actively involved in multiple organizations including the Marcellus Shale Coalition and the Colorado Oil and Gas Association and has been a frequent presenter at national events on topics related to ground water chemistry, and oil and gas exploration programs. Mr. Mitchell also served as a member of the Ground Water Chemistry Workgroup for the EPA Hydraulic Fracturing Study. During his career he has assumed responsibility for management of multiple emergency response actions and has completed accreditation in Incident Command through the Federal Emergency Management Association

Program. Additionally, Mr. Mitchell continues to work with the industry technical and regulatory leadership to advance the sustainable processes related to environmental analytical chemistry.

A graduate of David Lipscomb University with a B.S. in Biochemistry, Mr. Mitchell also completed 4 years post bachelor's research in Toxicology at the University of Mississippi.