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Waste Site Resiliency: Planning for Rising Coastal and Inland Water

Live Webinar via Zoom on October 30, 2024, 8:30 AM – 11:30AM

PRESENTER BIOGRAPHIES

David Boutt, Ph.D., is 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. He is a computational hydrogeologist and has published numerous articles about the hydrology and hydrogeology of the New England region. He leads a large 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 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. Read about his projects and group at his website <https://www.boutthydro.com/>

Joseph Famely leads the Climate & Sustainability Team at Woods Hole Group. Focused on environmental and sustainability planning, he has expertise in assessing climate change vulnerability and risk for infrastructure and natural resources, and developing adaptation and resiliency plans for communities and organizations. Joe holds a B.A. from Bowdoin College, a M.E.M. in Urban Ecology and Environmental Design from the Yale School of the Environment, and is a certified Waterfront Edge Design Guidelines (WEDG) Associate.

Joe has over 20 years' experience analyzing environmental challenges and developing sustainable solutions. He has led coastal climate change resiliency projects with municipalities, regional planning organizations, transportation agencies, non-profit land conservancies, higher education institutions, and building/landscape design teams. In addition to developing risk-based prioritization and climate change adaptation phasing strategies for coastal assets, Joe has led strategic land use planning projects and created customized greenhouse gas assessment tools to help organizations benchmark and track their carbon footprints and prepare sustainability reports. His background in ecological risk assessment, urban ecology, and environmental design brings a systems-thinking approach to projects and facilitates collaboration with engineering and design professionals, as well as with clients and stakeholders.

Michele Paul, LSP, is New Bedford's Director of Resilience and Environmental Stewardship.

With a background in civil engineering and twenty years of assessment and remediation consulting, her passion is Brownfields redevelopment and the public policies that shape these community rebuilding projects located largely in environmental justice neighborhoods. Under the leadership of New Bedford Mayor Jon Mitchell, Michele's role is focused on community resilience, combining infrastructure, social, and economic development efforts. New Bedford is the Number 1 Fishing Port in the nation and the hub of off-shore wind infrastructure assembly and maintenance deployment, and New Bedford's comprehensive climate adaptation and resilience plan: *NB Resilient*, will guide future capital and program direction through the lenses of equity and community character.

Michele is a member of the New England Municipal Sustainability Network where resilience professionals share best practices and lessons learned in this emerging field. New Bedford is a new member of the Urban Sustainability Directors' Network. Michele represents New Bedford on the Mass Municipal Association's Policy Committee for Energy and the Environment, is a member of MassDevelopment's Brownfields Advisory Group, and serves on MassDEP's Waste Site Cleanup Advisory Committee representing municipal officials. Michele is a Massachusetts Licensed Site Professional and is a past President of the Licensed Site Professional Association.

Tracy Roth, PG, is a Principal Hydrogeologist at Terraphase with more than 25 years of experience performing quantitative hydrogeologic evaluations for site characterization, remediation, geotechnical, and water resource projects. Ms. Roth specializes in the development and application of analytical and numerical modeling techniques to quantify groundwater flow and solute fate and transport.

Ms. Roth has assisted many clients with achieving favorable results for sites throughout the United States and abroad. She has used her modeling expertise to design and optimize groundwater extraction systems for remediation, water supply, and contaminated site redevelopment. She has developed and calibrated models in complex hydrogeologic settings to compare the effectiveness of remedial alternatives, including permeable reactive barriers, funnel and gate barrier systems, thermal treatment of contaminated soils, and monitored natural attenuation.

Ms. Roth is the Hydrogeologic Analysis and Modeling Discipline Leader at Terraphase and lead Hydrogeologist conducting sea level rise (SLR) vulnerability assessments (SLRVAs) and Adaptation Plans at multiple sites in California for a variety of clients including municipalities, developers, and responsible parties for remediation sites.