

**LSPA Environmental Symposium**  
**April 4, 2023, 8:00 AM – 12:00 PM**  
***Resilient Remediation: Addressing Climate Change and Greener Cleanups***  
***in Waste Site Response Actions***

**Instructor Biographies**

**Susan Chapnick** is President and Principal Scientist of New Environmental Horizons, Inc. (NEH), an environmental chemistry consulting firm specializing in the planning and evaluation of environmental data. She is recognized as a technical expert in analytical chemistry and quality assurance of metals and wet chemistry environmental measurements with over 25 years of experience in support of Natural Resource Damage Assessments, USEPA Superfund, US Army Corps of Engineers, and state-led contaminant investigations. Ms. Chapnick serves on the Science Advisory Committee for the MassDEP Bureau of Waste Site Cleanup where she champions scientific integrity in the development of environmental regulations and technical guidance for site cleanups in the Commonwealth. She also leads local policy changes towards Climate Change Resilience and adaptation planning in wetland resource areas as the Chair of the Conservation Commission in the Town of Arlington, MA. Ms. Chapnick holds a Master's of Science in Marine Science from the University of South Carolina and a BA in Biological Sciences from Barnard College, Columbia University, NYC.

**Michele Paul** is the City of New Bedford's Director of Resilience and Environmental Stewardship. With a background in civil engineering, her passion is Brownfields redevelopment and the public policies that shape these resilience projects located largely in environmental justice communities. Under the leadership of New Bedford Mayor Jon Mitchell, Michele's role is focused on community resilience, combining infrastructure, social, and economic development efforts in partnership with various community-led organizations. New Bedford is a designated Municipal Vulnerability Preparedness (MVP) community, and its comprehensive Climate Action and Resilience plan: NB Resilient, is guiding capital investment and program direction through the lenses of equity and community character. Michele is a member of the New England Municipal Sustainability Network where a growing number of resilience professionals share best practices and lessons learned in this emerging field. 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 the past President of the LSP Association.

**Catharine Rockwell** is an Environmental Remediation Technical Manager and Senior Principal at Woodard & Curran. She is a licensed professional engineer with a focus on environmental and hydrogeological investigations, feasibility evaluations of remedial alternatives, and the design and implementation of remedies at both state-led and federally driven sites under the RCRA and CERCLA programs. With a special interest in sustainable remediation, Ms. Rockwell served as a Board member of the Sustainable Remediation Forum (SURF) for 3 years. For the past 3 years she has been a co-chair the LSPA's Climate Change Subcommittee.

Ms. Rockwell holds a Master of Science in Civil and Environmental Engineering from MIT, and a BS from Rensselaer Polytechnic Institute.

**Marilyn Wade** is a Managing Engineer at Brown and Caldwell, and is a registered Professional Engineer and seasoned Licensed Site Professional. She has over 40 years of environmental experience, including decades of environmental consulting focused on the Massachusetts Contingency Plan, and federal TSCA, CERCLA and RCRA programs for both private and public sector clients. She is responsible for leading and supervising teams of skilled professionals in all aspects of waste site investigation and large-scale complex site remediation, as well as providing environmental compliance, litigation support, due diligence, hazardous building materials management and environmental permitting services. Marilyn served 7 years on the LSPA Board of Directors, including two terms as LSPA president, and currently co-chairs the LSPA Climate Change Subcommittee.

**Theodore Wickwire** is a Senior Environmental Scientist and Leader of the Applied Ecology Team at Woods Hole Group, focuses on solving complex environmental problems using risk assessment, causal analysis, vulnerability assessment, field sampling/monitoring programs and weight-of-evidence approaches. He has applied his expertise to evaluating spills, legacy contamination, claims of loss or damage, climate vulnerabilities, non-chemical environmental stressors and developing new methods to advance the evaluations. Mr. Wickwire also assesses the impact of stressors on ecological systems and has prepared numerous aquatic and terrestrial ecological and human health risk assessments in New England and around the United States. He has managed the development of models that incorporate wildlife behaviors and habitat suitability to increase the realism of exposure modeling. Using multiple types of evidence, he applies the causal analysis framework to provide a defensible path to identifying and managing a probable cause. Mr. Wickwire also uses relative risk model approaches to understand the potential vulnerabilities of different alternative approaches to environmental management such as introduction of species or climate change adaptation. He contributes to climate vulnerability assessments. Working with probabilistic climate modelers, Mr. Wickwire helps clients develop the consequence piece of coastal vulnerability index development and is integrating climate vulnerability considerations into ecological risk assessments. This requires the selection and application of multiple criteria for scoring the comparative value of different assets including natural resources. He then combines the modeled probabilities with the consequence scores to arrive at CVIs. Ultimately, in collaboration with the Team, he assists clients with strategic resiliency and adaptation planning and project implementation including

permitting support to minimize the impact of future climate change. He has an undergraduate degree from Bowdoin College and a Master of Science degree from Yale University School of Forestry and Environmental Studies.

**Katie Elich** is a Project Engineer at Woodard & Curran experienced with a variety of environmental investigation, remediation, litigation, and compliance projects for clients in the public and private sectors. Her primary responsibilities include data management, evaluation, and reporting for site investigation and remediation programs, focusing on the analysis and visualization of complex environmental and hydrogeological datasets. She has been an active member of the Sustainable Remediation Forum (SURF) since 2018 and was recently elected as Vice President of SURF. She was also heavily involved with the recent SURF technical initiative to research and compare the various tools available for sustainability evaluations. She has conducted several environmental footprint analyses using the USEPA SEFA workbooks, has worked to implement Greener Cleanup BMPs at remediation sites in accordance with the ASTM Standard Guide for Greener Cleanups, and is also part of Woodard & Curran's Sustainable and Resilient Remediation group.