



# Department of Environmental Protection

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Charles D. Baker  
Governor

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Lieutenant Governor

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Secretary

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## Principles of Risk Communication, Applied to PFAS Site Issues

### Instructor Biographies

#### Course instructors are:

Linda Dell, Senior Managing Consultant, Ramboll

Ray Frigon, Assistant Director of the Remediation Division, CTDEEP

Dale Kroop, Executive Director of the Hamden Economic Development Corporation

Paul Locke, Assistant Commissioner, Bureau of Waste Site Cleanup, MassDEP

Lisa McIntosh, Senior Technical Manager and Principal, Woodard & Curran

Eric Wood, LSP and Principal, Ramboll

The course will be moderated by Matt Hackman, LSP, LSPA Education Committee and Past President.

**Linda Dell, Senior Managing Consultant, Ramboll:** Linda Dell is an epidemiologist with more than 25 years of experience in applied epidemiological research. She has designed, implemented and managed occupational and environmental epidemiological field studies, including occupational cohort studies and nested case-control studies. Ms. Dell has an extensive background in epidemiological methods, cancer epidemiology, occupational health surveillance, and exposure reconstruction methods. She has conducted systematic reviews and meta-analyses and has integrated human health evidence in relation to occupational and environmental exposures. Ms. Dell has conducted quantitative and qualitative exposure reconstructions and human health risk assessments. She has studied risk factors including chemicals, metals, minerals, air pollutants, per- and polyfluoroalkyl substances (PFAS), and health outcomes such as cancers, reproductive effects, and cardiovascular and respiratory diseases.

**Ray Frigon, Assistant Director of the Remediation Division, Connecticut Department of Energy and Environmental Protection (CT DEEP):** After completing his degree in environmental earth sciences and spending several years working as a chemist in an environmental laboratory, Mr. Frigon chose to devote his career to public service at CT DEEP. Ray has over 30 years of experience in site investigation and cleanup work, has overseen many large-scale and complex projects with regional importance, and managed post-closure care at five state-run landfills. In 2019, Ray served as co-chair of the Remediation Committee for the Connecticut Interagency PFAS Task Force, which assembled stakeholders from the public, private, and academic sectors to develop recommendations for cleanup of PFAS pollution in Connecticut.

**Dale Kroop, President, Community Resource Management LLC:** Mr. Kroop provides strategic planning, grant writing and administration and redevelopment planning services to communities and non-profits. He is the founder and Executive Director of the Hamden Economic Development Corporation (501c4) and the New Colony Development Corporation (501c3) where he is responsible for redevelopment initiatives as well as marketing and business retention and growth programs. The Hamden Economic Development Corporation recently completed the remediation and restoration of two parks, the completion of over 100 housing rehabilitation projects, a Housing Deconstruction Job Training Program and are completing a Business Incubator, branded as BOROUGH496. HEDC completed a Zero Energy Housing project and are currently managing a \$4M Structural Repair program and a Soil Management Fund in the Newhall Community. Over the last few years HEDC also completed a \$600K brownfield remediation and demolition grant on a former school while recently completing the sales of commercial tax liens. The New Colony Development Corporation recently took on an assignment as a Brownfield Land Bank in Bristol, CT on a 100k SF building for its conversion into workforce housing.

**Paul Locke, Assistant Commissioner, MassDEP Bureau of Waste Site Cleanup:** Paul directs the MassDEP site cleanup programs, including emergency response activities, marine oil spills, natural resource damage assessment & restoration and the Brownfields Program. Paul started working as a risk assessor with the Massachusetts Department of Environmental Protection's Office of Research and Standards in 1987, where he participated in environmental policy development, review of site-specific reports, and provided technical assistance to DEP staff and the regulated community. In 1993 he helped develop the state's semi-privatized cleanup program – including the rules that determine “*how clean is clean enough?*” – that facilitates the redevelopment of Brownfields sites. Since 2004, Paul has worked in the Waste Site Cleanup Program as Director of Policy Development, Director of Response & Remediation and as Assistant Commissioner. Recent initiatives include the development of a comprehensive soil management strategy, updating and streamlining the cleanup regulations, implementation of DEP's vapor intrusion initiatives and development of a strategy for the identification, assessment and cleanup of PFAS in Massachusetts. A former chemist (Harvard College) and fairly civil engineer (Tufts University), Paul has also taught (West Africa), developed photos (Cambridge), cross-matched blood (Boston) and scooped ice cream (Brighams).

**Lisa McIntosh, Senior Technical Manager and Principal, Woodard & Curran:** Ms. McIntosh has over two decades of expertise in conducting both human and ecological risk assessments, with additional experience in risk communication, environmental site assessment, wetland science and ecological restoration. She is actively involved in the scientific and regulatory community, including the Society of Environmental Toxicology and Chemistry, Society for Women Environmental Professionals, and the Interstate Technology and Regulatory Council PFAS and Risk Communication Training workgroups. She holds a BS – Biology, with minor in chemistry; Eastern Nazarene College; MS – Environmental Science, concentration in aquatic toxicology; UMass Boston, and a Diplomate of the American Board of Toxicology, certified in general toxicology

**Eric Wood, Principal, Ramboll:** Mr. Wood has 37 years of consulting experience in environmental science and hydrogeology. In the past few years, he has worked on multiple PFAS matters involving site investigation and remediation, human and ecological risk characterization, remedial cost estimation, litigation support and expert testimony, mediation, groundwater modeling, air dispersion modeling, insurance technical support, cost allocation, environmental forensics, environmental liability valuation, due diligence, environmental compliance, and strategic planning. He has completed nearly 10,000 assignments for clients during his career, nationally and internationally. Mr. Wood's work in the U.S. has been conducted under TSCA, CERCLA, RCRA, EPCRA, CWA, CAA, and several state-lead programs. With his academic and applied business experience, he is frequently retained to help clients integrate environmental solutions with their short-term and long-term business objectives. Mr. Wood co-leads Ramboll's PFAS Subject Matter Experts globally and has been both a nationally certified Professional Hydrogeologist and a Massachusetts Licensed Site Professional (LSP) for nearly 30 years.

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**Matt Hackman, President Matthew E Hackman PE CHMM Inc.:** Matt has over 40 years experience in air, water, and hazardous waste pollution control technologies, and investigation and remediation of contaminated sites, including air and wastewater permitting, PCB/VOC/heavy metals/ municipal landfill remediation RCRA/CERCLA/TSCA), specifications for remedial activities during facility closure and UST upgrades, and innovative soil, groundwater, and wastewater recycling/reuse technologies. Matt graduated from the University of Delaware (BChE, 1977) and Princeton University (MSE in ChE, 1983) and is a licensed Professional Engineer in NJ, MA, RI, CT, NY, AL, IL, DE and VA, and is a Licensed Site Professional in MA and a License Environmental Professional in CT.

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