

2019 EBC Ascending Leader Award Recipients

Michaela Bogosh

Environmental Engineer and Project Manager, CDM Smith

Michaela Bogosh is an Environmental Engineer and Project Manager at CDM Smith in Boston, Massachusetts with eight years of experience in the field. Ms. Bogosh earned her Bachelor of Science degree in Civil Engineering from the University of New Hampshire (UNH) in 2009. She earned her Master's in Civil Engineering with a focus on Environmental Engineering and Drinking Water Treatment also at UNH. While at UNH, she focused on safe drinking water projects and advanced and innovative water treatment initiatives as well as overall drinking water quality. In 2011, she joined CDM Smith. She began working as a project engineer in the Environmental Management Group working on the remediation of impacted sites in New England and on the east coast. In 2016, she transitioned to the water services group within CDM Smith to pursue her interest in the water sector. In 2015, she earned her Professional Engineer (PE) License in Civil Engineering. She also earned her certification from the Institute for Sustainable Infrastructure (ISI) as an Envision™ Sustainability Professional (ENV SP) in 2013. Most recently, she became certified as a Project Management Professional from the Project Management Institute.



Ms. Bogosh is presently managing the design of several large and small drinking water treatment plant projects in New Hampshire and Massachusetts. These involve various treatment applications for emerging contaminants, such as PFAS, as well as design modifications for increasing removal efficiencies for routine permit conditions such as iron and manganese removal. She is also the Project Manager and a key member of the team responsible for development of the new wastewater treatment district on Cape Cod aimed at reducing ground water impacts from nitrogen contamination for the towns of Dennis Harwich and Yarmouth.

Ms. Bogosh is one of the “founders” of the Women’s Environmental Network (WEN) Young Professional (YP) committee and is an active member of the New England Waterworks Association (NEWWA) YP and membership committees.

Kyle Hay

Project Engineer, Weston & Sampson

A Project Engineer in Weston & Sampson’s Water Group, Kyle is focused on projects related to drinking water quality and treatment. With a strong background knowledge in water chemistry, he has assisted clients with issues related to corrosion control, disinfection byproduct formation, and chemical feed system configuration. Kyle established himself as an integral team member on design and construction projects ranging in scale from individual well pump stations to large, high-profile surface water treatment plants. More recently, he has immersed himself in the area of emerging contaminants, specifically per- and polyfluoroalkyl substances (PFAS), and his contributions to date have been instrumental to Weston & Sampson’s rapid success in this field.



Kyle's expertise includes the identification of emerging contaminants and the design/implementation of treatment technologies. Encouraging and promoting Weston & Sampson's corporate growth in the industry, he works closely with the firm's municipal clients to investigate PFAS compounds and provide targeted services related to PFOA and PFOS; alternative PFAS-related treatment options including emerging technologies; water quality data review; and monitoring plan development. Kyle's experience includes working with several clients on PFAS-related projects, including efforts at the former Pease Air Force Base and the former Fort Devens Army Base. In an effort to advance the science and knowledge of feasible treatment methodologies for PFAS removal, Kyle has immersed himself in the industry; he has presented at numerous conferences for the American Water Works Association, New England Water Works Association, New Hampshire Water Works Association, National Ground Water Association, and Battelle Contaminant Conference, as well as at local colleges/universities. He is growing a collaborative working group of scientists and engineers researching PFAS, and is also an active member of the NEWWA Disinfection Committee.

Recently, Kyle has taken a leading role in implementing an internal training series to promote knowledge sharing within Weston & Sampson's Water Group. He has a Master of Science in Civil Engineering with a concentration in Environmental Engineering/Drinking Water Treatment from the University of New Hampshire and a Bachelor of Science in Mechanical Engineering from Grove City College. During his time at UNH, Kyle's research focused on innovative uses of green algae to improve drinking water treatment processes. His efforts over the past five years have contributed significantly to the water industry and, specifically, to the emerging contaminants knowledge base for drinking water utilities and consulting engineers in New England.

Harrison Roakes

Professional Engineer and Project Manager, Sanborn, Head & Associates, Inc.

Harrison Roakes is Professional Engineer and Project Manager with Sanborn Head. His recent work includes numerous soil and groundwater studies involving per- and polyfluoroalkyl substances (PFAS), detection monitoring at landfill and coal ash facilities, oversight for a large thermal remediation Superfund site, and characterization of light non-aqueous phase liquid (LNAPL) in the subsurface. Clients and colleagues look to Harrison's leadership on several highly technical areas, including statistical analysis of environmental data, PFAS fate and transport in soil and groundwater, and LNAPL mobility.



Collegiality and learning from others are hallmarks of Harrison's professional career. He has shared over ten presentations on PFAS and other subjects at industry conferences and special events, as well as many more informational presentations for Sanborn Head and external audiences. He has also been an author on several published technical reports and articles, including the significant "PFAS Background in Vermont Shallow Soils" report that came from a partnership between Sanborn Head and the University of Vermont, with support from the Vermont Department of Environmental Conservation.

Harrison holds a B.S. and M.S. in Environmental Engineering from the University of New Hampshire (UNH), and he actively gives back to the student-alumni network by sharing his technical experiences through teaching guest lectures and advising senior capstone design projects. He has also volunteered for the past eight years as the construction lead for the design and installation of water systems at elementary schools in the Dominican Republic. Harrison has travelled four times to these schools, with

another trip planned for Spring 2020. The water treatment and supply project started in 2011 as a senior project at UNH and continues as a project at the University of Rhode Island, and it has been critical for the Dominican community as well as an important experience for the many students who have contributed.

Harrison is an active member and has held leadership roles in several professional associations: Environmental Business Council of New England, Engineers Without Borders, American Society of Civil Engineers, and the New England Water Works Association.

Lauren Underwood, PE

Senior Project Engineer and Associate, Environmental Partners

Lauren is a Senior Project Engineer and an Associate at Environmental Partners with 6 years of experience in the field of Civil Engineering. She specializes in municipal drinking water and has also served on a variety of wastewater, stormwater, and site/civil projects. Her project experience includes planning, design, permitting, construction cost estimation, bidding assistance, construction contract administration, resident project representative management, hydraulic modeling, and drinking water master planning.



Lauren has a Bachelor of Science degree in Civil Engineering from the University of Massachusetts Dartmouth and was selected as UMass Dartmouth's recipient of the "29 Who Shine" award in 2013. Lauren is also a Registered Professional Engineer in the State of Massachusetts. Lauren is very active in the New England Water Works Association, serving as the Co-Chair of the Networking Committee, Vice Chair of the University Outreach Committee, Mentor Program Coordinator, and an active member of the Young Professionals Committee, Scholarship Committee, and Planning Committee. She is the founder of the Massachusetts Water Works Association's Young Professionals Committee, and received the Special Achievement Award from MWWA in 2018. Additionally, Lauren is involved in the American Water Works Association, American Public Works Association, Environmental Business Council of New England, and Plymouth County Water Works Association. Lauren enjoys traveling in her free time.

Jessica Yeager

Senior Engineer, Geosyntec Consultants

Ms. Yeager earned her Master's of Engineering Degree in Civil and Environmental Engineering from the Massachusetts Institute of Technology and her B.S. in Environmental Engineering, with Honors, from Harvard College. While at Harvard, she put her environmental engineering skills to the test during a month-long research trip to Sao Paulo, Brazil, funded by a grant from the Harvard Center for the Environment. She examined the sustainability of ethanol production in the country, the world's second largest producer of ethanol fuel. As her senior thesis project, she developed a website comparing performance indicators of ethanol produced by different Brazilian firms.



She now has just under 10 years of professional experience in environmental engineering, specializing in remedial design and implementation. Her areas of expertise are remedial strategy development, groundwater and soil remedial design, vapor intrusion, and brownfields redevelopment. Her clients have included many Fortune 100 companies.

Despite having less than 10 years of experience, she is already a Registered Professional Engineer in Massachusetts and a Licensed Site Professional (LSP). In addition to being the Vice Chair of the EBC's Ascending Professionals Committee, she is an active member of five professional associations.

Ms. Yeager has been the author or coauthor of 13 professional publications and presentations on topics such as "Three Years of Reductive Dechlorination at a Chlorinated Solvent Site" and "Vapor Intrusion – Reducing Uncertainty in Investigations, Mitigation and Transactions – Tools for the Toolbox."

As a member of the SWE's Outreach Committee, she has co-chaired their involvement with the Cambridge Science Fest for over five years, building small engineering toys like squeezey flashlights and bristle bots with over 200 students each year.

At Geosyntec, Ms. Yeager is a member of the Process Engineering and Design Steering Committee, supervisor to mid-level employees, and mentors two employees as part of their Women's Mentoring Program.