Speaker Biographies

First Name	Last Name	Presenter Company	Presenter Biography
Husein	Almuhtaram	University of Toronto	Dr. Husein Almuhtaram works extensively in several issues related to drinking water treatment plants including cyanobacteria, microplastics, and water quality in distribution systems. He has been involved in national and international projects that explore emerging areas of cyanobacteria research, including the risks posed by benthic species and innovative ways to monitor for algal blooms using machine learning. He is currently involved in microplastic research including hazards associated with leaching of additives, adsorption of contaminants, and development of sampling protocols for microplastics in water. Husein is currently a postdoctoral fellow at the University of Toronto.
Brent	Alspach	Arcadis	Brent Alspach holds both BS and MS degrees in Civil and Environmental Engineering from Cornell University. Brent joined Arcadis in 1997 and serves as the company's Director of Applied Research. He is the immediate past Chair of the AWWA Water Quality & Technology Division Board of Trustees, also serving on the advisory / editorial boards for Journal AWWA, Opflow, and AWWA Water Science. He is also actively working his ephemeral pursuit of seeing a game in all of the active Major League ballpark.
Robert C.	Andrews	University of Toronto, Department of Civil and Mineral Engineering	Prof. Andrews has over 25 years of experience in the field of drinking water treatment, both as an academic researcher as well as a consultant. He holds a Natural Science and Engineering Research Council (NSERC) Senior Industrial Chair in Drinking Water Research at the University of Toronto, Department of Civil and Mineral Engineering. He regularly collaborates with researchers across Canada, the United States and internationally regarding emerging drinking water related issues.
Veronica	Aponte-Morales	USEPA	Verónica Aponte-Morales is a Physical Scientist at the Environmental Protection Agency's Office of Water, Water Infrastructure & Cyber Resilience Division (WICRD). The WICRD's focus is on enhancing the preparedness and resiliency of the nation's drinking water and wastewater infrastructure. As a Water Laboratory Alliance Team member, Verónica serves as the Program Manager for the Water Contaminant Information Tool (WCIT). This database provides information on contaminants of concern for drinking water and wastewater systems. The information helps guide various activities in Emergency Response. She has also developed technical documents for the water sector that focus on the remediation and clean-up phases following a contamination incident. Before her position at EPA, Verónica worked as a research assistant at the University of South Florida, where she designed, implemented, operated, and maintained innovative physical, chemical, and biological processes to treat industrial wastewater. Verónica has an interdisciplinary educational background with a B.S. in Chemistry, an M.S. in Environmental Science, and a Ph.D. in Environmental Engineering.
Ariel	Atkinson		Ariel is a Process Systems Engineer in the Applied Water Quality Research Group at the Southern Nevada Water Authority. She works on applied research projects in support of full-scale operations at their water treatment facilities and groundwater wells, as well as externally funded projects. Ariel received her Bachelor's degree in Chemistry from Appalachian State University, PhD in Environmental Engineering from UNC Chapel Hill.
Mahmoud	Badawy	University of Waterloo	Mahmoud Badawy received his B.Sc. degree in Civil Engineering from Benha University, Benha, Egypt. Then, he obtained his M.Sc. in Environmental Engineering again from Benha University. His master's research focused on low-cost wastewater treatment techniques. Also, he participated in teaching many subjects in environmental engineering to undergraduate students at Benha University. Besides his research and teaching obligations, he has also worked as an Environmental Engineer for many consulting firms in Egypt. He is now a Ph.D. Candidate at the University of Waterloo. His Ph.D. research focuses on the impact of the corrosion inhibitor phosphate on chloramine residual stability in drinking water distribution systems

Ehsan	Banayan Esfahani	University of British Columbia	Ehsan Banayan Esfahani is currently a Ph.D. candidate in the department of Chemical and Biological Engineering at the University of British Columbia (UBC), Vancouver, Canada. His research entails the development and application of UV-based advanced oxidation/reduction processes for photodegradation of hazardous micropollutants, in particular per- and poly-fluoroalkyl substances (PFAS). He received his Bachelor's (2013) and Master's (2016) degrees in chemical engineering from Sharif University of Technology, Tehran, Iran. For his Master's thesis, Ehsan mainly focused on biological nutrient removal from municipal wastewater. Later on, he joined an environmental consulting firm in Tehran, conducting wastewater treatment designs primarily for clients in the municipal and industrial sectors. After nearly two years in the industry, he joined Prof. Mohseni's group at UBC, where he hopes to bring his academic and professional experiences to the table in advancing novel water treatment technologies to solve today's world issue, ensuring safe PFAS-free water for all.
Haniehsadat	Barikbin	University of Toledo	Hanieh has started her Ph.D. at the University of Toledo in the Civil and Environmental Engineering department since January 2022. She works as a graduate research assistant at the water research lab, where her study focuses on the removal of cyanobacterial cells utilizing dissolved air flotation and traditional sedimentation. She is experienced in enhancing green technologies, particularly design an optimization of photobioreactors to capture CO_2 via micro-algae.
Zachary	Barkjohn	Xylem	Zac Barkjohn is a Product Manager at Sensus, a Xylem Brand. With a background in civil engineering, he is responsible for dictating requirements and prioritizing development for the software products which utilities rely on.
Mudit	Bhatia		Mudit is currently a doctoral student in the Water Research Laboratory, Department of Civil and Environmental Engineering, The University of Toledo working on the bio-remediation of cyanotoxins in Drinking Water Treatment Residuals. He has completed his Masters Thesis in Biology working on understanding lipid metabolism using the CRISPR-Cas9 gene editing technology. He has previously worked the field of bio-hydrogen production from food waste and antibiotic resistance spread in urban wetlands. His main research interests are bio-remediation of toxins and xenobiotic compounds and bio-fuel production from waste.
Jeff	Biggs	Tucson Water	Jeff has nearly 42 years of experience in the water profession, including being a certified Water Treatment & Water Distribution Operator. Jeff's experience includes water treatment and quality, water resource management, public outreach, intergovernmental affairs, and research. Jeff also has extensive management experience, is a member of numerous Boards and committees and received the AWWA Missouri Section 1993 Meritorious Operator Award, the Arizona Public Works Association 2016 Outstanding Public Works Employee Award, is an AWWA Life Member and a recipient of the Water for People Kenneth J. Miller Founder's Award and the 2022 WateReuse Arizona Person of the Year Award. He currently serves on the Water Research Foundation's Research Advisory Council.

Robert	Bilott	Taft Stettinius & Hollister, LLP	Rob is a partner in the Cincinnati and Northern Kentucky offices of the law firm, Taft Stettinius & Hollister LLP, where he has practiced in the Environmental and Litigation Practice Groups for over 31 years. During that time, Rob has handled and led some of the most novel and complex cases in the country involving damage from exposure to per- and polyfluoroalkyl substances ("PFAS"), including the first individual, class action, mass tort, and multi-district litigation proceedings involving PFAS, recovering over $1 billion for clients impacted by the chemicals. In 2017, Rob received the Right Livelihood Award, known as the "Alternative Nobel Prize," for his decades of work on behalf of those injured by PFAS chemical contamination. Rob is the author of the book, "Exposure: Poisoned Water, Corporate Greed, and One Lawyer's Twenty-Year Battle Against DuPont," and his story is the inspiration for the 2019 motion picture, "Dark Waters," starring Mark Ruffalo as Rob. Rob's story and work is also featured in the documentary, "The Devil We Know." Rob is a 1987 graduate of New College in Sarasota, Florida, and a 1990 graduate of the Ohio State University Moritz College of Law. Rob also serves on the Boards of Less Cancer and Green Umbrella and is frequently invited to provide keynote lectures and talks at law schools, universities, colleges, communities and other organizations all over the world. Rob is a fellow in the Right Livelihood College, a Lecturer at the Yale School of Public Health, Department of Environmental Health Sciences, and an Honorary Professor at the National University of Cordoba in Argentina. Rob also has received Honorary Doctorate Degrees from both Ohio State University and New College.
Nicole	Blute	Hazen and Sawyer	Dr. Blute serves as Hazen and Sawyer's Drinking Water Practice Lead for the West Region. She has over 25 years of experience in drinking water treatment and aquatic chemistry. She specializes in drinking water treatment and system planning particularly for impaired groundwater. Dr. Blute earned her PhD in Environmental Engineering from MIT and is located in Los Angeles.
Laura	Boczek	USEPA	I am a research microbiologist for the US Environmental Protection Agency's Office of Research and Development. I have a M.S. from the University of Cincinnati. My research areas have focused on efficacy of disinfection of various microorganisms in drinking water. Premise plumbing pathogens, with an emphasis on Legionella, specifically the ecology of these organisms, and understanding how they persist and what steps can be taken to mitigate the risk of infection to insure public health protection. As well as the occurrence and evolution of antibiotic resistant microorganisms in the environment.
Philip	Brandhuber	Brandhuber Wtr. Quality/Trtmnt LLC	Dr. Philip Brandhuber is owner of Brandhuber Water Quality & Treatment (BWQ&T), a private consulting firm focused on drinking water issues. He has over 25 years experience in the drinking water field. Prior to forming BWQ&T, he was a Senior Professional Associate and HDR Fellow at HDR Inc. where he served as HDR's national expert in the treatment of inorganic contaminants in drinking water. He has managed or participated in more than 75 projects involving the treatment of natural and anthropogenic contaminants in drinking water. Dr Brandhuber served as Principal Investigator for six research projects sponsored by Water Research Foundation. In addition, he has served in advisory capacity for several state health departments, the US Environmental Protection Agency, Health Canada and the World Health Organization. He is currently the Chair of the American Water Works Association (AWWA) Inorganics Committee and Manganese Subcommittee as well as past Chair of the Emerging Water Quality Issues Committee.
Richard	Brown	Cornwell Engineering	Richard Brown is a Vice President at the Cornwell Engineering Group, Inc. He oversees the treatment process evaluation and optimization, applied research, and regulatory compliance for public water systems, including: lead and copper. Mr. Brown is a graduate of Purdue University and UNC-Chapel Hill.
Zia	Bukhari	American Water	
Helen	Buse	US Environmental Protection Agency	Dr. Helen Buse is a microbiologist with EPA's Office of Research and Development in Cincinnati, Ohio. Since joining EPA in 2007, her research has focused on understanding the role of free-living amoebae, biofilms, water quality parameters, and operational and engineering aspects in the growth of Legionella pneumophila within drinking water systems. Her current work aims to utilize various treatment technologies to decontaminate and maintain drinking water quality within premise plumbing systems. Helen has a Ph.D. in Microbiology and Immunology from the University of Michigan and a B.S. in Biological Sciences from Carnegie Mellon University.

Adam	Cadwallader	U.S. EPA	Dr. Adam Cadwallader is a general engineer in the Risk Reduction Branch within the Office of Ground Water and Drinking Water, where his work focuses primarily on PFAS and disinfection byproducts. Adam has 9 years of experience in the drinking water field across his Ph.D. and time at EPA. He has been with the EPA since 2018. He holds a B.S. in environmental engineering from Worcester Polytechnic Institute and an M.S. and Ph.D. in civil and environmental engineering from Carnegie Mellon University.
Lee	Cassidy	South West Water - Bournemouth Water	I have been working within the Water Quality Department for South West Water since 2016. One of my primary roles during this time has been the feasibility study for the potential replacement of one of our WTW from Slow Sand Filter treatment to Ceramic Membrane Filtration. As part of this study I ran a pilot scale trail in collaboration with the membrane manufacturer PWNT water technologies to assess the effectiveness of Ceramic Membrane filtration on our raw water supply.
Margot	Cazals	Polytechnique Montreal	Margot Cazals is a Ph. D. student at the Industrial Chair on Drinking Water at Polytechnique Montréal (Canada). After a master's degree project on the enzymatic rapid online detection of faecal contamination in recreational waters, she started a Ph. D. project on the microbial diversity in DWDS. Her project aims to identify design, operational and management strategies allowing a control of the proliferation and persistence of opportunistic pathogens such as L. pneumophila in these systems.
Qigang	Chang	Advanced Engineering and Environmental Services	Dr. Chang has over 20 years of experience in water treatment facility design, operation optimizations, and wastewater effluent reuse. He is a well-recognized membrane technology and advanced technology expert (including biofiltration), and has provided pilot study, engineering design, and operation optimization on water treatment facilities and wastewater effluent reuse. In the last decade, he has been involved in a number of water treatment plant (WTP) designs and improvements, including Fargo's 15 MGD new membrane WTP, Grand Forks 20 MGD new Regional WTP, St. Cloud WTF Advanced Treatment Technology upgrade (Ozone and UV), Fargo LSWTP Crypto Compliance Improvements (UV), and Grand Forks WWTP effluent reuse. Dr. Chang actively works with Fargo, St. Cloud, Thief River Falls, and Watertown Municipal Utilities (SD) to optimize their plant operations.
Kai Loon	Chen	DC Water	Dr. Kai Loon Chen is a Program Manager in Research and Development in the Water Quality and Technology group of DC Water. He received his Ph.D. in environmental engineering from Yale University. Before joining DC Water, Dr. Chen was an Assistant Professor in environmental engineering at Johns Hopkins University for nine years. His research at DC Water focuses on drinking water quality in the distribution system and water purification technologies.
Ben	Chenevey	Arcadis U.S., Inc.	Mr. Chenevey has over 10 years of experience as an environmental engineer and serves as the Arcadis community of practice leader for water distribution system modeling and currently serves as vice-chair of the AWWA Engineering Modeling Applications Committee. His expertise includes extensive knowledge of water distribution hydraulic modeling with national experience on model development and calibration, field data collection, master planning, advanced water quality modeling, and transient modeling.
Felipe	Contreras	Kleinfelder	Mr. Contreras has a B.S. in Civil Engineering, and a M. Sc. in Hydraulic Resources from Los Andes University (Bogota, Colombia). He has over 20 years of international experience in the water sector, having worked in Colombia, England, the Middle East and more recently in the United States. He is registered as a Professional Engineer in NJ, MA, and PA, he holds a Municipal Engineer certification in NJ, and he is also a Certified Floodplain Manager. Mr. Contreras' work has emphasis in integrated water resources management, water and wastewater treatment and distribution systems, utility efficient operation, and hydraulic modeling. As a Municipal and Utilities Engineer, direct interaction with municipal clients, preparing engineering designs, budgets, plans, specifications, schedules, procurement of grants, and Federal, State, local permits, for a wide variety of projects are some of his responsibilities. His is currently a Principal Engineer at Kleinfelder, Inc.
Charles	Corey	HDR	Chad has 13 years' experience in working in the regulatory, public, and private sectors of the water industry. Chad has been with HDR since 2020 where he is actively involved in several large-scale drinking water and wastewater projects. He is a registered Professional Engineer, a Project Management Professional (PMP), and holds a "Class A" Water System Operators License through the Commonwealth of Pennsylvania.

David	Cornwell		Dr. David Cornwell is CEO of Cornwell Engineering Group, a consulting engineering firm specializing in water. He received his doctoral degree from the University of Florida where he is currently an Adjunct Professor. He is working closely with many utilities, the Water Research Foundation and AWWA on reducing lead levels in water. Dr. Cornwell has over 50 publications, has served on many AWWA committees and is recipient of the A. P. Black Research Award, the WRF Research Award and AWWA Honorary Member Award.
Christopher	Corwin	Corona Environmental Consulting	Dr. Corwin has over 20 years of experience as a professional engineer and project manager providing the drinking water community with services in process planning, treatment optimization, bench testing, and pilot testing. Previous to joining Corona, Dr. Corwin spent five years as a faculty member at the University of Colorado's Environmental Engineering Program.
Peng	Dai	South Dakota State University	Peng Dai is a Ph.D. student from South Dakota State University in Dr. Guanghui Hua's group. His current research is focused on the biofiltration of total organic halogen (TOX), emerging and unknown disinfection byproducts (DBPs).
Kevin	Daniels	Hazen and Sawyer	Kevin Daniels has been a project engineer for Hazen and Sawyer for over three years. He supports efforts in innovative water/wastewater design projects and advanced technology evaluation/implementation for drinking water, water reuse, and wastewater utilities. Prior to joining Hazen and Sawyer, he worked extensively in assessing water quality through analytical chemistry and toxicology, working on multi-disciplinary projects related to designing, evaluating, and monitoring the water quality associated with different treatment technologies.
Joshua	Das	Mass. Water Resources Auth.	Joshua Das is an expert in drinking water and public health, having worked in the field for over 20 years. Joshua holds a Masters degree from the Harvard School of Public Health in Environmental Health, with a focus on water, and BS in Chemistry from Tufts University. For the past twenty years, he has worked as for the Massachusetts Water Resources Authority as a Public Health Specialist and presently as the Program Manager of Water Quality. His job at the MWRA entails water quality monitoring and coordination of regulatory and non-regulatory sampling, has oversaw the lead testing program, and performs educational outreach to universities and community groups across the Boston area. While much of his work has focused on the domestic water supply, he has also worked on several developing country projects on improving drinking water and sanitation including in Bangladesh, Dominican Republic, Haiti, Malawi, and Zambia.
Steve	Deem	Washington Department of Health	Steve is a professional engineer with over 30 years of experience in water and sanitation issues. He works for the Office of Drinking Water in the Engineering and Technical Services Office representing the Washington State Department of Health. Steve is also a consultant and international programs staff for Water 1st International, a non-profit water and sanitation development organization working in Asia, Africa and Central America. His experience encompasses a multitude of settings – from the Kurdish refugee camps in Northern Iraq to post-war rehabilitation in Bosnia and Herzegovina, and from water and toilets in the slums of Dhaka, Bangladesh, to research efforts on ultraviolet light disinfection with the Water Research Foundation.
Christina	Devine	ORISE-EPA	Christina Devine is an Oak Ridge Institute of Science and Education (ORISE) post-doctoral fellow at the U.S. EPA's Office of Research and Development, Center for Environmental Solutions and Emergency Response, in Cincinnati, Ohio. As a part of the Water Infrastructure Division her research is focused on lead in drinking water. Christina holds a B.S. in engineering science and mechanics and both an M.S. and Ph.D. in Environmental Engineering from Virginia Tech.
George	Di Giovanni	The Metropolitan Water District of Southern California	Dr. Di Giovanni is the Source Water Microbiology Team Manager for the Metropolitan Water District of Southern California. His team is responsible for the development and application of improved pathogen assays and monitoring for cyanotoxins and invasive mussels. He has served as an AWWA Trustee and Chair of the AWWA Microbiological Contaminants Research Committee. His honors include the Water Research Foundation Dr. Pankaj Parekh Research Innovation Award and the Texas Environmental Excellence Award.

Katherine	Dowdell		Katherine Dowdell is currently a postdoctoral fellow in the laboratory of Professor Mary Jo Kirisits in the Department of Civil, Architectural and Environmental Engineering at the University of Texas at Austin studying drinking water microbiology. She completed her Bachelor's and Master's in Civil and Environmental Engineering at the University of Colorado at Boulder and recently received her PhD from the University of Michigan in Environmental Engineering. She also worked for five years in engineering consulting and is a licensed civil engineer in California.
Marc	Edwards	Virginia Tech	Marc Edwards, PhD is a University Distinguished Professor of Civil Engineering at Virginia Tech, where he teaches courses in environmental engineering, applied aquatic chemistry and engineering ethics. Edwards pioneered research into health problems associated with building plumbing systems. His research group conducted the investigative science uncovering the dimensions of the 2001-2004 D.C. Lead Crisis and the 2014-2016 Flint Water Disaster. In 2016 he was named amongst TIME Magazine's 100 Most Influential people in the World, the World's 50 Greatest Leaders by Fortune Magazine, Politico Magazine's Top 50 Visionaries who have transformed American politics, Foreign Policy Magazines 100 World's Greatest Thinkers, and was short-listed amongst Flint whistleblowers as Time person(s) of the year. He was co-recipient of the inaugural 2017 MIT Disobedience Award, received the 2018 AAAS Scientific Freedom and Responsibility award, and the Hoover Humanitarian Medal in 2019.
Erika	Ellman	AECOM	
Monica	Emelko		Monica Emelko is a Professor of Environmental Engineering and the Canada Research Chair in Water Science, Technology & Policy at the University of Waterloo. She is also the Scientific Director of the forWater Network for Forested Drinking Water Source Protection Technologies. Her research focuses on drinking water supply and treatment and risk analysis for public health protection. She has advised the U.S. National Academies; USEPA; Health Canada; and several provinces regarding drinking water treatment requirements and health risk assessment, as well as source water protection and climate change adaptation.
Stephen	Estes-Smargiassi	Massachusetts Water Resources Authority	Stephen is a planner and engineer, with degrees from MIT and Harvard. In 33 years at MWRA, he has led or participated in all master planning and water quality initiatives. He is responsible for MWRA's annual water quality report as well as monthly reports, and using those opportunities to reinforce the connection with the public health community. He has overseen MWRA's collaborative efforts to understand and communicate the risks of lead in drinking water since 1993, and has been active in national efforts to revise the LCR including the recent National Drinking Water Advisory Council (NDWAC) work group.
Benjamin	Fennell	Texas A&M University	Benjamin Fennell is a PhD candidate in the Zachry Department of Civil & Environmental Engineering at Texas A&M University. Benjamin has over 10 years of combined research and engineering experience, serving as a professionally licensed engineer and project manager on water and wastewater treatment projects. Research interests broadly include water treatment (PFAS, DBPs, & advanced reduction/oxidation), water quality, and water system modeling. Benjamin is passionate about engineering education and teaches several national review courses to prepare Civil Engineers for the Professional Engineering Exam. Benjamin spends most of his spare time outside with his wife and children - even in the Texas heat!
Melinda	Friedman	Confluence Engineering Group, LLC	Melinda Friedman is President of Confluence Engineering Group located in Seattle, Washington. She has 30+ years of experience conducting source water and distribution system water quality evaluations, regulatory compliance, and optimal corrosion control treatment studies. She has helped to prepare many prominent industry Guidance Manuals published by the American Water Works Association and the Water Research Foundation. She was the recipient of the AWWA George Warren Fuller Award for engineering leadership in 2017 and the AP Black Research Award in 2022.
Daniel	Gerrity	Southern Nevada Water Authority	Dr. Daniel Gerrity is the Principal Research Microbiologist in Water Quality R&D at the Southern Nevada Water Authority (SNWA). He is an industry leader in quantitative microbial risk assessment, recently contributing to the development of draft DPR regulations in California. His current research interests include potable reuse treatment, wastewater-based epidemiology, and microbial source tracking, specifically in the context of unsheltered homelessness.

Richard	Giani	Jacobs	Rich Giani is the Technical Drinking Water Coordinator for Jacobs' Operation Division based out of Tuscaloosa, Alabama. His team is responsible for providing technical support and field engineering for all drinking water utilities operated by Jacobs. Rich was a past chair for AWWA's National Drinking Water Distribution Water Quality Committee and was a lead author in AWWA's manual of practice for internal corrosion control in distribution systems (M58). He was also the recipient of AWWA's National Golden Spigot Award in 2018.
Mac	Gifford	Portland Water Bureau	Mac Gifford is a water quality engineer who has been with the Portland Water Bureau for 5 years. He has 15 years of industry experience and graduate study in drinking water quality, and currently serves as chair of the PNWS Water Treatment Committee. He is the pilot operations lead on the Bull Run Filtration Pilot, and technical stakeholder overseeing the inception, testing, design, implementation, and monitoring for the Improved Corrosion Control Treatment project aimed at reducing lead in water for Portlanders.
Jessica	Glowczewski	Akron Water Supply	Ms. Glowczewski has over 14 years of experience in watershed management and water operations. She is responsible for managing and monitoring the 207 mi2 Upper Cuyahoga River Watershed for the City of Akron, Ohio's drinking water plant as a raw water supply. She developed the City of Akron's Watershed Control Program for compliance with the Long Term Stage 2 Enhanced Surface Water Treatment Rule, the first plan endorsed by the Ohio EPA, and which has since proved preventative actions can reduce the impacts of biological pathogens, as Akron's second 2 year long round of testing revealing no cryptosporidium in the source waters. Additionally, through collaboration with the University of Akron, she was pivotal in designing and implementing a HAB mgmt. program to mitigate the formation of potentially toxic blooms. Implemented three seasons ago, this program has successfully prevented bloom formation for three years running in Lake Rockwell Reservoir, a 107 year old impoundment on the Cuyahoga River with a history of multiple blooms throughout the season. Jessica has a BS from Kent State University, a Class III Ohio Water Operator License, and is a NALMS Certified Lake Manager.
Alexander	Gorzalski	Hazen and Sawyer	Alex Gorzalski is a Senior Principal Engineer with Hazen and Sawyer. His work focuses on water treatment process engineering and water supply planning. He is a licensed professional engineer and certified water treatment operator with experience in utility operations.
Marianne	Grimard-Conea		Marianne Grimard-Conea is a PhD student in civil engineering enrolled at Polytechnique Montreal. Her research is focused on the impact of low water demands on the microbiological water quality in large buildings, and more particularly on the presence of opportunistic premise plumbing pathogens including Legionella pneumophila and nontuberculous mycobacteria. During the SARS-CoV-2 pandemic, she has carried out several recommissioning flushing and shock chlorine disinfection studies to address water stagnation events and high water age in the built environment.
Levi	Haupert	US EPA	Dr. Haupert earned his Ph. D. in chemistry from Purdue University where he studied nonlinear optical properties of crystals. His current research interests include modeling ion exchange filter performance and studying transport of contaminants in polymers.
Qun	He	Carollo Engineers	Charlie (Qun) He, a vice president and chief technologist with Carollo, has more than 23 years of experience in water and wastewater treatment, water quality, and water resources. He leads the company's integrated decision support system team and is leading the research and development of Blue Plan-it® Decision Support System, an advanced water and wastewater system simulation and optimization tool. He is one of the R&D Innovation Manager for Carollo's Research Group, serving as Carollo's Southwest Region R&D lead. Mr. He has extensive experience in water quality and emerging contaminants.

Adam	Hendricks	Philadelphia Water Department	Adam Hendricks leads the Applied Research Group at the Philadelphia Water Department. He has been with PWD for over 10 years, working first on aspects of the stormwater program, then spending the past 5 years developing the Applied Research Group. The Applied Research Group is focused on operational process improvements, planning for future regulatory requirements, exploring resource recovery opportunities, and examining innovative technologies in the water sector. Two of his major focuses include fundamental research to prepare for potential ammonia effluent limits at PWD's water pollution control plants and managing a holistic water treatment piloting effort to help the department research decisions in infrastructure investments. He also acts as the department's liaison to various local and national water research organizations.
Ronald	Hofmann	University of Toronto Dept of Civil Engineering	Ron Hofmann is a professor at the University of Toronto. His work explores drinking water treatment with an emphasis on adsorptive technologies and oxidation methods.
Kalli	Hood	Dalhousie University Library	Kalli Hood is a PhD student in the Department of Civil and Resource Engineering at Dalhousie University in Halifax, Nova Scotia, Canada. Under the supervision of Dr. Graham Gagnon, her research includes lead corrosion control optimization in pipe loops. Before starting her PhD, Kalli previously worked for the Public Health Agency of Canada. She received her MSc in Environmental Toxicology from Dalhousie University in 2020, and her BSc (Honours) in Physics from Mount Allison University in 2017.
Jihyon	Im	CDM Smith	Ms. Ji Im is an environmental engineer who specializes in drinking water treatment projects for municipal clients at CDM Smith and has worked on a number of PFAS treatment studies, design and construction projects throughout the northeast. Her work is in the design of new water treatment facilities, existing plant upgrades, and studies for master planning, treatment evaluations, regulatory review, and water quality analyses. She is an active volunteer for AWWA, presently serving as the Vice Chair of the AWWA's National Young Professionals Committee, YP Liaison to AWWA's Technical and Education Council, and Secretary of the New England section's Program Committee.
Minhazul	Islam		I am 3rd year PhD student in the Department of Civil, Environmental and Sustainable Engineering at Arizona State University. I got my bachelor's degree in water resources engineering from Bangladesh University of Engineering and Technology (BUET) and did my MS in Civil Engineering from Tennessee Technological University. My primary research focus is on Geographical Information System (GIS) modeling focusing on de facto reuse scenarios in the United States.
Asher	Keithley	U.S. EPA	Dr. Asher Keithley is an environmental engineer at the EPA in the Office of Research and Development in Cincinnati. Asher's work focuses on improving biological treatment of inorganic contaminants and developing biofilter monitoring tools, with a special emphasis on supporting small drinking water systems.
Ashley	Kent		Ashley is Arcadis' One Water and Biological Drinking Water Treatment Discipline Lead. She is currently the Chair of the AWWA Biological Drinking Water Treatment Committee and is co-leading development of a new AWWA Manual of Practice on Biological Drinking Water Treatment.
HYUNCHUL	KIM	Korea University	Dr. Hyunchul Kim is being employed as a research professor at Korea University and serves concurrently as the chief operating officer of Korea Action Decade (KAD), one of the consulting firms in Korea. KAD works to identify new strategies and techniques that can solve some of the world's most challenging problems in the environment and public health. While leading a multidisciplinary team of engineers, he is currently dealing with the development of point-of-entry devices using germicidal multiple-wavelength UV-LEDs and their application to water treatment systems for smart farms.
MacKenzie	King	US Environmental Protection Agency	MacKenzie is an ORISE fellow at the US EPA's Office of Water, Water Infrastructure & Cyber Resilience Division (WICRD). Her role at EPA includes developing and reviewing content for the Water Contaminant Information Tool, alongside furthering WICRD's mission of enhancing the nation's drinking water and wastewater systems' emergency preparedness and resilience. MacKenzie received her B.S. in Geology from the University of Cincinnati and is currently pursuing her M.S. in Environmental Metrology and Policy from Georgetown University.
Zachary	Kirschman	University of Toledo	My name is Zak Kirschman, and I am a graduate student studying the cyanophage efficacy when targeting cyanobacteria.

Detlef	Knappe	North Carolina State University	Detlef Knappe is the S. James Ellen Distinguished Professor of Civil, Construction, and Environmental Engineering at NC State University. He received his BS, MS, and PhD degrees from the Department of Civil and Environmental Engineering at the University of Illinois at Urbana-Champaign, and he joined the NC State faculty in 1996. He is the Deputy Director of NC State's Superfund Center "Environmental and Health Effects of PFAS" and is a member of NC State's Center for Human Health and the Environment. Detlef's research interests broadly encompass drinking water quality and treatment. He is a Trustee of the American Water Works Association's (AWWA's) Water Science and Research Division, he is a member of the North Carolina Secretaries' Science Advisory Board, and he serves as Associate Editor for AWWA Water Science.
Julie	Korak	University of Colorado Boulder	Dr. Julie Korak is an Assistant Professor in the Department of Civil, Environmental, and Architectural Engineering at the University of Colorado Boulder. Dr. Korak is a licensed Professional Engineer in the State of Colorado and holds degrees in Chemical (B.S.), Environmental (B.S.), and Civil/Environmental Engineering (M.S. and Ph.D.) from the University of Colorado Boulder. Dr. Korak primarily focuses on the removal of inorganic contaminants and corrosion in water treatment systems. Her projects span from fundamental bench-scale studies to simulation modeling and full-scale treatment system assessments. Prior to joining the University of Colorado in 2018, she worked as a research and design engineer in the Water Treatment Group at the Bureau of Reclamation.
Yoko	Koyama	Hazen and Sawyer	Yoko grew up in Japan until she moved to the U.S for her undergraduate studies in 2015. She then finished her M.S in Environmental Engineering at North Carolina State University in 2021. Yoko's thesis work focused on recalcitrant organic micropollutants removal from water by GAC and machine learning, which has become the basis of this poster presentation.
Rebecca	Kriss	Virginia Tech University	Rebecca Kriss holds BS and MSE degrees in Environmental Engineering from Johns Hopkins University. She has 5 years of experience through the ORISE program at the US EPA examining water treatments for the removal of chemical and biological contaminants of homeland security concern. She is currently a PhD candidate at Virginia Tech investigating detection and mitigation strategies to help residents and utilities address lead and copper problems in drinking water.
Pierre	Kwan	HDR	Pierre Kwan is HDR's Water Treatment Technical Director and is responsible for the technical execution of the firm's drinking water projects throughout the world. His personal background spans multiple areas, including distribution system water quality maintenance, lead and copper corrosion studies, and various water treatment design, construction, and optimization efforts. He obtained his Bachelors of Science in Civil Engineering from The Ohio State University and his Masters of Science in Civil Engineering from the University of Washington. He ls based in Seattle, Washington.
Mark	LeChevallier	Dr. Water Consulting, LLC	Dr. Mark LeChevallier is the principal and manager of Dr. Water Consulting LLC, a part-time consulting business, after retiring from American Water at the beginning of 2018. Dr. LeChevallier received his Bachelor of Science and Master's degrees in Microbiology from Oregon State University, and his Ph.D. in Microbiology from Montana State University. Dr. LeChevallier has authored over 300 research papers and has received numerous awards for outstanding contributions to the science of water treatment. He currently serves on the USEPA Science Advisory Board, the Water Science & Technology Board for the National Academy of Science and was a member of the NAS Legionella workgroup. He is a fellow of the American Academy of Microbiology.
Yongtao	Li		Dr. Yongtao (Bruce) Li is the Technical Director of Eurofins Eaton Analytical, LLC. He earned a Ph.D. in analytical chemistry from Southern Illinois University at Carbondale and has had over 25 years of experience in water quality research and testing industry and authored/coauthored over 100 analytical methods. He is an active member of the American Water Work Association (AWWA) and American Chemical Society (ACS).
Yi	Li	University of Toronto	Livia (Yi) Li is a PhD candidate supervised by Prof. Susan Andrews in the Drinking Water Research Group at the University of Toronto. Her research focuses on microplastics in drinking water and their interactions with disinfection byproducts (DBPs) and DBP precursors. Livia obtained her bachelor's degree in Water Supply and Wastewater Engineering from Tongji University, China and an MASc in Civil Engineering from U of T.

Javier	Locsin		Javier Locsin is nearing completion of his PhD program in the Department of Civil and Resource Engineering at Dalhousie University in Halifax, Nova Scotia, Canada. He holds bachelor's degrees in both Mechanical and Civil engineering and his background spans the fields of manufacturing, power and water engineering. Javier's current work is focused on the interaction of natural and inorganic colloids within drinking water distribution systems with respect to heavy metals transport phenomenon.
Michael	Loewenstein	Q Labs LLC	Michael Loewenstein is the current VP, Scientific Consulting at Q Labs LLC in Cincinnati, OH. He earned his B.S. in Microbiology, with a research focus in Molecular Genetics and Cellular Physiology from The Ohio State University. After graduation, Michael obtained a position in Corporate Microbiology at Procter & Gamble where he developed a passion for end-to-end microbiology, and he has published several articles on this subject. Michael currently serves in a volunteer capacity for several professional associations, including the AOAC International, PCPC, and AWT.
Kathryn	Lopez		Kathryn Lopez is a PhD candidate in the Department of Civil and Environmental Engineering at Virginia Tech working with Dr. Marc Edwards. She received her bachelor's degree in Chemical-Materials Engineering from Florida State University in 2018. Her doctoral research focuses on evaluating the impacts of contaminants on lead solder corrosion and identifying corrosion control strategies to reduce lead in drinking water. Kathryn is passionate about public-inspired science and designing more sustainable drinking water supply systems. She is a recipient of the National Academies of Science, Engineering, and Medicine (NASEM) Ford Fellowship and is planning to complete her PhD in May 2023.
Erin	Mackey	Brown and Caldwell	Dr. Mackey specalizes in drinking water and reuse treatment and water quality for municipal and industrial applications. She is Brown and Caldwell's National Innovation Leader for Drinking Water and Reuse and sits in BC's Walnut Creek, California office.
David	MacNevin	CDM Smith	Dr. Dave MacNevin has 16 years of environmental consulting experience in the testing, design, and implementation of drinking water and advanced water reuse treatment systems. He is a nationally-recognized expert in potable reuse and membrane treatment. Dr. MacNevin is based out of CDM Smith's Tampa office, where he serves as Discipline Leader for Water Reuse and Advanced Treatment.
Mahsa	Masjoudi	University of British Columbia	Mahsa is a PhD Candidate and Graduate Research Assistant in Environmental Engineering at the University of British Columbia. Her research involves the development and application of UV-based advanced oxidation processes (AOPs), in particular UV/VUV/chlorine, for the removal of micropollutants in potable water reuse trains. As an environmental enthusiast, Mahsa hopes to make a meaningful impact on sustainability of communities through use of novel treatment technologies for providing safe and clean drinking water.
Sara	Matthews	McGill University	Sara Matthews graduated from the University of Guelph in Nanoscience with a minor in Biochemistry in 2018 before obtaining her master's in Chemical Engineering from McGill University in 2021. She's worked on projects over a broad range of topics including material synthesis, prokaryotic glycobiology and toxicology. She joined the Faucher lab at McGill University in 2021 where the focus in on the behaviour of bacterial pathogens, particularly on Legionella pneumophila, in non-clinical environments, such as in water.
Frank	Mazzola		Frank Mazzola is a PhD student in the Virginia Tech Department of Civil and Environmental Engineering. He is researching the corrosion of drinking water infrastructure, with a focus on the complexation of lead by polyphosphates. Frank obtained his bachelor's and master's degrees in civil engineering from Virginia Tech.
Nancy	McTigue	Cornwell Engineering Group	Nancy is the Director of Research for Cornwell Engineering Group, headquartered in Virginia. She holds a Master's Degree in Environmental Engineering from Stanford University. She is an Honorary Member of AWWA, and has been an active member for over 30 years.
Charuka	Meegoda	Norwegian University of Science and Technology	

Soroosh	Mortazavian	University of Toronto	Soroosh Mortazavian is currently a postdoctoral fellow at the Drinking Water Research Group (DWRG), University of Toronto, investigating practical approaches for decreasing PFAS loads entering the Great Lakes through wastewater treatment plants effluent discharge. She obtained her Ph.D. from the University of Nevada Las Vegas in 2019 with her research focusing on the development of advanced materials for the removal of traditional and emerging contaminants from water and wastewater.
Issam	Najm	WQTS, Inc.	Issam Najm is the founder and president of Water Quality & Treatment Solutions, Inc. located in Los Angeles, California. He is an environmental engineer with 32 years of experience working with water agencies to evaluate and resolve water quality and water treatment challenges. Dr. Najm is an Adjunct Associate Professor of Civil and Environmental Engineering at the University of California Los Angeles and a registered Professional Engineer in California.
Anna	Ness	CDM Smith	To be completed
Tolu	Odimayomi	Virginia Tech University	Tolu Odimayomi, MS, is a PhD student in the Department of Civil and Environmental Engineering, Environmental and Water Resources Engineering Program. Her research interests focus on the nexus of water quality monitoring in the built environment, water infrastructure safety, and community engagement. Tolu earned her Bachelor of Science in Chemical Engineering in 2017 and Master of Science in Environmental and Ecological Engineering in 2019 from Purdue University.
Ludovica	Palma	Polytechnique Montreal	Ludovica Palma is a Ph. D. student at Polytechnique Montréal. Her Ph. D. project focuses on the optimization approach for sensor placement, with detailed attention to data driven techniques. The purpose is to define an efficient contamination warning system to detect contaminants in water distribution networks and to define how to deal with them, in order to assist water utilities.
Robert	Pearce	Virginia Tech/Hampton Roads Sanitation District	Mack is a PhD candidate in Civil and Environmental Engineering at Virginia Tech conducting his research at HRSD as part of their SWIFT program. His research is focused on ozone biofiltration based reuse systems, advanced oxidation, and balancing contaminant removal and disinfection byproduct formation.
David	Pernitsky	Stantec Consulting, Ltd.	David Pernitsky has 30 years of water treatment experience and leads Stantec's technical water treatment team. David has worked on filtration projects around the world and is currently working on the new edition of AWWA's M37 Coagulation and Filtration Manual of Practice.
Anthony	Pimentel	University of Colorado Boulder	Anthony is a masters student in environmental engineering at the University of Colorado Boulder. He has been involved in research at CU in advanced water treatment including UV advanced oxidation processes, ozonation, and membrane processes. His MS thesis focuses on the optimization of novel UV light sources, especially light emitting diodes, and their application in the removal of emerging contaminants. Anthony aspires one day to work on the international level of water treatment, especially addressing water quality challenges of outdated infrastructure and marginalized communities with advancing technologies.
Nishana	Ramsawak	Queens University	Currently a PhD candidate in the department of Civil Engineering at Queen's University, where I focus on "Factors of Water Quality Degradation in Drinking Water Distribution Systems". I was previously employed as a Quality Control Supervisor at the Water and Sewerage Authority of Trinidad and Tobago and a former Instructor of Mathematics for Scientists at the St Augustine campus of the University of the West Indies. I was also a Water Specialist Research Consultant with the Caribbean Policy Development Centre in Barbados. I am an advocate for education in children and since moving to Kingston ON, I have been a part of the Black Youth in STEM initiative, where we provide a safe space for Black, Indigenous, People of Color (BIPOC) kids to learn and explore STEM in a fun, interactive, enthusiastic way while developing critical thinking, and skill enhancement while learning. When the pandemic happened and the borders in Trinidad and Tobago were closed, I used the money for my ticket home to start a Christmas charity drive called "Helping Handbags Kingston Initiative", where we provide feminine products to women in vulnerable homes, now in its second year running due to overwhelming support from the Kingston community. I am also a Graduate Inclusivity Fellow, where I work with a magnificent team to promote Equity, Diversity and Inclusivity (EDI) at Queens University.

Loren	Ramsay	VIA University College	Loren Ramsay is a chemical engineer with interest in fields such as: treatment of drinking water, geochemistry, remediation of soil and groundwater contamination, field measurements for water and soil, and chemical analyses of water and soil. He has 35 years of experience in working in the water industry, both as a regulator, a consultant, a teacher and a researcher. The last 10 years he has carried out research in drinking water as a docent at VIA University College in Denmark.
Hannah	Ray	Southern Nevada Water Authority	
Skylar	Reed	City of Newark	Skylar Reed is an Environmental Engineer for the City of Newark, NJ – Department of Water & Sewer Utilities. There, she utilizes her background in environmental chemistry, industrial waste water / waste chemical treatment, process improvement and research to assist the completion of a wide range of projects. Her passion for water dates back to her time as an undergraduate research fellow at Seton Hall University. Since then, she has participated in research regarding biomonitoring techniques, improved extraction efficiency, PPCPs and harmful algae blooms, and conducted studies on industrial process improvement and water, waste water, and waste chemical treatment. She received her B.S. in Chemistry with focuses in biochemistry and environmental chemistry and is currently pursuing a graduate degree in Water Resource and Environmental Engineering at Villanova University.
Maria Claudia	RINCON		I obtained my bachelor's degree in civil engineering in Colombia at "Universidad Industrial de Santander". Then I moved to Canada to study for her master's degree at UBC. I am in my second year of studies and my research is focused on rapid detection of contaminants using machine learning.
Ian	Robinson	Blueconduit	
Aaron	Robison	HDR	Aaron was drawn to environmental engineering by the desire to provide safe drinking water for people and to protect the precious environment that we are entrusted with. With over 20 years of experience, he utilizes a combination of technical expertise, financial acumen, and strong interpersonal skills to help find solutions for community's pressing water needs. Aaron holds a bachelor's degree in civil engineering and a master's degree from the University of Missouri- Rolla and an MBA from the University of Missouri-Kansas City. In his free time, he enjoys spending time outdoors with his family and trying to brew the perfect IPA.
Laura	Rodriguez-Gonzale		Dr. Laura Rodriguez Gonzalez has a Bachelor's Degree in Civil Engineering and a Master's Degree in Environmental Engineering from the University of Puerto Rico, Mayaguez. Laura earned her PhD in Environmental Engineering from the University of South Florida, where she researched topics such as: Recirculating Aquaculture Systems, Biological Nitrogen Removal, Ion Exchange, septic systems, and Advanced Oxidation Processes. Laura is currently a Staff Professional at Carollo Engineers, Inc. in Tampa, Florida. Her work involves many aspects of water/wastewater engineering including regulation review and compliance, disinfection by-products, integrated contingency plan updates, pilot testing for reverse osmosis plant improvement and TOC removal and sustainability assessment through Envision.
Diane	Roher	Hazen and Sawyer	
Javad	Roostaei	Hazen and Sawyer	As a principal data scientist at Hazen and Sawyer, Dr. Roostaei is working on developing and deploying machine-learned models in water industry projects. Javad has more than ten years of experience in the area of data-driven modeling and he published more than ten peer-reviewed papers in the area. Most recently he has developed real-time data cleansing and normalization tools to make the data ready for ML applications and also trained ML models.
Caroline	Russell	Carollo Engineers	Dr. Caroline Russell is a Principal Technologist with Carollo Engineers, Inc. with 20 years of experience addressing drinking water supply and treatment challenges for water systems across the U.S. She received her B.S. in Civil Engineering from Duke University and her Master's and PhD in Environmental Engineering from the University of Texas at Austin.

Daniel	Ruth		Daniel Ruth has been researching organic matter monitoring paramters for optimised removal during treatment for implementation into Scottish Water treatment works through the Water Infrastructure and Resilience (WIRe) Centre for Doctoral Training since September 2019. Daniel obtained his MSc in Analytical and Environmental Science (2019) and BSc (Honours) in Forensic and Analytical Science (2018) from the Robert Gordon university. From Decemeber 2021, Daniel has been performing sampling campaigns where a wide variety of paramters of untreated potable water are analsyed using cutting edge insturmentation and novel methods. This analysis focusses on the key charge kinetics of organic matter removal by coagulation. In parallel, Daniel is also maintaining a host of online instruments at a live water treatment works in Scotland to understand how these may be used to create a dynamic control algorithm for organic matter removal.
Carleigh	Samson	Corona Environmental Consulting, LLC	Dr. Carleigh Samson is a Water Process Engineer with Corona Environmental Consulting. She is a Ph.D. from the University of Colorado Boulder with a focus in drinking water treatment processes and statistical modeling. She has experience in management and assessment of national and state drinking water compliance data, evaluating treatment processes at bench-, pilot-, and full-scale, and meaningful analysis of national drinking water occurrence data.
Lily	Sanchez	Orange County Water District	Lily Vuong Sanchez, BCES, is the Organic Supervising Chemist for the Orange County Water District's (OCWD) Phillip L. Anthony Laboratory. During her 32-year career at OCWD, Lily has served in many different positions within the laboratory including management, project planning and training. Her focus and expertise are analytical drinking water methods EPA 500 series using GC, GCMS, HPLC and LC/MS-MS instruments. Her in-depth knowledge and experience in laboratory functions includes sample analysis, Laboratory Information Management System (LIMS), and quality assurance and control. Lily contributed, developed, and validated several EPA methods in the execution of Federal Unregulated Contaminant Monitoring Rules (UCMR) 1, 2, 3, and 4. Since the interception of UCMR3 in 2012, she leads and develops the PFAS project including method development, validating EPA 537, analyzing samples, and training staff to be efficient in EPA 537 then later 537RV1.1, 537.1 and 533. She received her bachelor's degree in chemistry from California State University Long Beach and is proud to have spent her entire career at OCWD, contributing to the mission of providing reliable, high quality water supply for over 2.5 million people in Orange County, California. ⍰
Phil	Schmidt	University of Waterloo	Dr. Philip Schmidt is a Research Assistant Professor within the Water Science, Technology & Policy Group of the Department of Civil & Environmental Engineering at the University of Waterloo. He is accredited as an Associate Statistician by the Statistical Society of Canada. Following experience in research and development of building-scale direct potable reuse technology, he continues to research the methodology, application, and policy implications of quantitative microbial risk assessment.
Bradley	Schmitz	Loudoun Water	Bradley Schmitz is an Environmental Scientist at Loudoun Water in Northern Virginia. He received his Ph.D. in Environmental Microbiology from the University of Arizona and previously held two postdoc positions at the National University of Singapore and Johns Hopkins University. In his current role, Bradley is working to expand the organization's water resources and research programs, as well as exploring potential water reuse opportunities.
Balvinder	Sehgal	GLWA Great Lakes Water Authority	Balvinder Sehgal is a Manager for Special Projects at Great Lakes Water Authority. She has 22 years of drinking water treatment experience with GLWA and Detroit Water & Sewerage Department and possesses EGLE Class F-1 and S-2 drinking water certifications. Balvinder is a certified Project Management Professional and completed her Leadership Training from Central Michigan University's Michigan Public Service Institute. Additionally, she is a proud owner of Lean Six Sigma Black Belt. With a master's degree followed by an advanced study in Chemistry, Balvinder is well versed in management's best practices.

Chad	Seidel	Corona Environmental Consulting	Chad Seidel, Ph.D., P.E. is President at Corona Environmental Consulting and Adjunct Faculty at the University of Colorado Boulder. He's been engaged in the water community for more than 20 years, including efforts to address corrosion control.
Rebecca	Slabaugh		Ms. Slabaugh is an Associate Vice-President with Arcadis and serves as the Drinking Water Practice Lead for North America. She brings 15 years of experience in engineering innovative solutions to distribution system water quality challenges, including corrosion control and metals release, and has conducted corrosion control treatment optimization, bench and pilot studies for over 30 municipal and industrial clients throughout the U.S. She is a member of the AWWA Lead and Copper Rule Technical Advisory Workgroup, vice-chair of the AWWA Distribution System Water Quality Committee, and contributing author to AWWA M58: Internal Corrosion Control in Water Distribution Systems as well as AWWA's standard for lead service line replacement and flushing.
Emily	Smith	Corona Environmental Consulting, LLC	Emily Smith is a Project Manager and Scientist at Corona Environmental Consulting in Braintree, Massachusetts. She has over six years of experience in drinking water source protection including extensive contaminant research and analysis, statistical analysis, field sampling, process engineering, and computer modeling.
Samantha	Smith		Samantha J. Smith is a Physical Science intern at the United States Environmental Protection Agency (USEPA) Office of Research and Development in Cincinnati, Ohio. She earned her M.S. in Environmental Science in 2015 and is now pursuing her Ph.D. in Environmental Science from the University of Cincinnati's College of Engineering and Applied Science. Her current research involves organic contaminant removal from drinking water matrices, specifically PFAS compounds by anion exchange.
Miles	Snow	Perkieelmer	Miles started studying chemistry at a very young age which enabled him to work as a lab tech/trainer during his high school years. At university, he focused on synthesis, spectroscopy, and chromatography. His interest in Gas Chromatography started when he was given a project to build a microprocessor-controlled GC in the mid 80's. The GC worked quite well and became a laboratory workhorse for many years. After university, Miles worked as an Analytical Manager of an environmental contact lab before joining PerkinElmer field operations in 1990 and held various roles including Sales, R&D development scientist including management. Miles is currently the Sr. Principal Scientist within the global GC business unit working on new products with a focus on the development of interesting GC applications.
Eva	Stebel	Pegasus Technical Services, Inc. / The USEPA	Eva Stebel is a chemist at Pegasus Technical Services, Inc. working on PFAS-related projects. She has her BA in chemistry from The College of Wooster and is getting her MS in Environmental Engineering from The University of Cincinnati.
Eva	Steinle-Darling	Carollo Engineers	Eva Steinle-Darling directs Carollo's Water Reuse Technical Practice. She earned her doctorate from Stanford University, where she studied the removal of CECs and PFAS in potable reuse applications. Her work with Carollo focuses on all aspects of water reuse, including research, planning, feasibility studies, and design. Eva has authored well over 100 publications on reuse-related topics and supported the development of sustainable regulatory approaches for potable reuse in a number of states, including Arizona, Nevada, Texas, Colorado, and Florida, as well as the World Health Organization.
Richard	Stuck	Greater Cincinnati Water Works	
Kirsten	Studer	US EPA Office of Water	Kirsten Studer is a Physical Scientist with the Office of Ground Water and Drinking Water Risk Reduction Branch in Washington, D.C. She joined EPA after receiving her doctorate in environmental sciences and engineering from the University of North Carolina at Chapel Hill in 2020. She also received her master's degree in environmental engineering from the University of Massachusetts at Amherst.

R. Scott	Summers	University of Colorado Boulder- EVEN	Since 1998 Dr. Summers has been a professor of environmental engineering at the University of Colorado - Boulder. He has over 40 years of water research experience. He spent 2 years as a research associate at the USEPA national research lab, 2 years as a research associate at the German water works research institute (DVGW) at the University of Karlsruhe, 10 years as a professor at the University of Cincinnati and was a Fulbright Professor at the University of Crete (Greece). He holds BS and MS degrees from the University of Cincinnati and a PhD from Stanford University in Civil and Environmental Engineering. He is the co-director of the Water Reuse Program at CU.
Min	Tang	ORISE	
Mark	Theiler	Middlesex Water Company	Mark Theiler is the Assistant Director of Production at Middlesex Water Company. Mark graduated from Rutgers University with a degree in Chemical Engineering and worked for the New Jersey Department of Environmental Protection prior to joining Middlesex Water Company in 2016.
Kyle	Thompson	Carollo Engineers, Inc.	Kyle Thompson is a Reuse Technologist and National PFAS Lead at Carollo Engineers. His areas of expertise include PFAS, potable reuse, and machine learning. Kyle received his BS in environmental engineering in 2013 from Missouri University of Science & Technology as valedictorian and with honors. He received a Master of Science in Civil Engineering and PhD in Environmental Engineering from the University of Colorado Boulder. Kyle previously worked as postdoctoral researcher at the Southern Nevada Water Authority. Kyle is a registered Professional Engineer in the state of Nevada.
Dienye	Tolofari	Great Lake Water Authority	Dienye Tolofari is a Drinking Water Research Engineer with Great Lakes Water Authority, Detroit, Michigan. She received a B.S. in Industrial Physics from Imo State University, Nigeria, a M.S. in Environmental Engineering from the University of Florida, and a Ph.D. in Environmental Engineering from Drexel University. Her doctoral dissertation was on analysis of drinking water quality in premise plumbing, that addressed the challenges of drinking water contamination and public health through systematic experimentations, risk assessment, and statistical modeling. Her research interests include risk assessment, environmental microbiology, drinking water treatment and public health.
Wesley	Ulloa	Nephros	Wesley Ulloa is currently a Manager of Pathogen Detection at Nephros. In his current capacity, Wesley focuses on providing scientific outreach to public health labs, water management professionals and healthcare engineers. Prior to joining Nephros, he was a Clinical Scientist at Envol Biomedical and a Senior Research Analyst at Charles River Laboratories specializing in ligand binding assays. In 2016, he received his Master's degree in Conservation Biology and Environmental Science as a National Science Foundation CREST grant recipient from the University of Hawaii at Hilo. Wesley has over 5 years of microbiology and Good Laboratory Practice experience.
Giridhar	Upadhyaya	Carollo Engineers	Dr. Giridhar Upadhyaya is an Associate Vice President and Principal Technologist at Carollo Engineers. He has more than 27 years of experience in biotechnology, environmental engineering, water treatment, and environmental chemistry. He has extensive experience in inorganic and organic contaminant removal from groundwater sources, including nitrate, perchlorate, arsenic, selenium, hexavalent chromium, uranium, PCE, TCE, DCE, TCP. His work experience ranges from 'proof-of-concept' evaluation, pilot- and demonstration-scale testing, and process optimization and troubleshooting.
Ramola	Vaidya	HDR	Ramola Vaidya is a Water/Wastewater Process Engineer with HDR in the Vienna, VA office. She has been working with HDR for the past two years on water, wastewater and reuse water treatment process, design, research and pilot projects. Prior to HDR she worked for four years at Hampton Roads Sanitation District on their managed aquifer recharge project, SWIFT. She has a PhD and Master's degree in Civil and Environmental Engineering from Virginia Tech.

VINILA	VASAM	West Virginia University	I am a graduate student pursuing a Ph.D. in the Civil & Environmental Engineering department at West Virginia University. My research involves the fields of environmental engineering and microbiology. My present study evaluates the contribution of extracellular polymeric substances of biofilms present in the water distribution systems in the disinfectant by-products formation. I completed my Master of Technology in Civil & Environmental Engineering from the National Instistute of Technology, Warangal, India. I did my Bachelor of Technology in Civil Engineering from Kakatiya Institute of Technology in Warangal, India.
Hooman	Vatankhah	Colorado School Of Mines	Dr. Hooman Vatankhah received his B.S. in Energy and Environmental Engineering at the Technical University of Hamburg, his M.S. in Environmental Engineering at the Technical University of Munich, and his Ph.D. in Civil and Environmental Engineering at Colorado School of Mines. He served as a project engineer in the industry sector and was a postdoctoral fellow at Leibniz University in Hanover. He is currently serving as a research assistant professor at the Department of Civil and Environmental Engineering at Mines. His research focuses on developing new modular technologies and engineered systems for the removal of refractory micropollutants during potable reuse applications. His expertise and research projects mainly focus on advanced treatment processes including ozonation, biologically active filtration, and pressure-driven membrane filtration. He is the recipient of the AWWA Young Professional of the Year Award 2019.
Ariana	Wade		Ariana Wade is a recent graduate of the University of Michigan, where she received a Bachelor's degree in Chemical Engineering and a Master's degree in Environmental Engineering. She worked for the City of Ann Arbor for three years, conducting research on PFAS treatment technologies. She recently accepted a position as a Water & Wastewater Engineer with Fishbeck, but continues to work with the City to complete the WRF-funded research on PFAS removal and assist in answering other water quality questions.
Arun	Wahi	INTERA Inc.	Arun Wahi is a consulting hydrogeologist specializing in a variety of organic, inorganic, and radionuclide contaminants. His 19 years' experience includes investigation and remediation of unsaturated and saturated zone contamination, recharge estimation, litigation support, and numerical modeling. He has managed field investigations to perform drilling, aquifer testing, in situ groundwater treatment, and sampling of groundwater, soil, soil vapor, and non-aqueous phase liquids.
Katie	Walker	HDR	Katie has worked extensively on raw water and water quality issues. This experience includes reviewing water quality data for trends and constituents of concern, including high organic levels, turbidity, taste and odor causing compounds, and emerging contaminants. She has worked with clients to identify critical water quality area concerns, evaluate options for treatment strategies to meet regulatory and secondary treatment requirements, and manage and monitor unregulated contaminants. In addition, she has worked with clients to treat and blend multiple water sources to provide a stable water chemistry. Katie also has served as design lead on a wide variety of water projects including water facility design, pipeline and pump station design, and construction management. She is experienced in all phases of municipal projects, from technical memoranda to engineering reports, and the development of construction plans, specifications, and contract documents.
Andrew	Whelton	Purdue University, Environmental Engr.	Prof. Whelton is a Purdue University professor of civil, environmental, and ecological engineering nationally recognized with 20 years of experience in the infrastructure, public health, and environment domains. He leads the Healthy Plumbing Consortium and Center for Plumbing Safety, and several other initiatives with multiple university and industrial collaborators. He has and is called upon for advice to communities encountering disasters as it pertains to water and wastewater systems operations, decision making, water quality, plastics, and other topics.
Harold	Wright	Carollo Engineers	Harold is chief technologist for UV disinfection and AOP at Carollo Engineers. He has worked with UV technologies for 25 years.
Christopher	Yannoni	Stantec	Chris Yannoni is a Senior Principal and has been with Stantec for over 35 years. He directs water supply, treatment and distribution system projects for water suppliers throughout New England. He has been partnering with communities in developing creative engineering solutions to meet complex environmental and regulatory challenges, with a focus on water quality and treatment. He has a BS in Civil Engineering from UMass, Amherst and an MS from Northeastern University in Water Resources.

Tae-Suh	Yun	The University of Toledo	Tae-Suh Yun is currently a master's student in the Water Research Laboratory in the Department of Civil and Environmental Engineering at the University of Toledo. He is from South Korea. He achieved a bachelor's in Civil Engineering from the same university and has experience in estimating and field managing and reporting in construction companies. His current research project is Analyzing the impact of algaecides on Harmful Algal Blooms and characterizing the released algal organic matters, which is funded by the US Army Corps of Engineers.
Karl	Zimmermann	University of British Columbia	Karl Zimmermann is a PhD candidate, NSERC Vanier Scholar and Friedman Scholar in environmental engineering at the University of British Columbia. His research involves Biological Ion Exchange to provide low-maintenance drinking water treatment options for rural communities. Inspired by the UN's SDG6 to provide clean water for all, Karl is interested in improving the translation of research innovations into localized water solutions with developing communities. Bridging the technical and societal values of water, Karl is visiting local organizations around the World to learn the tools for building successful water partnerships.