

NEWEA 2021 Annual Conference

VIRTUAL • January 26 – 28, February 2 – 4

**WATER FOR LIFE
ADVOCATE. ACT.
BE THE CHANGE.**

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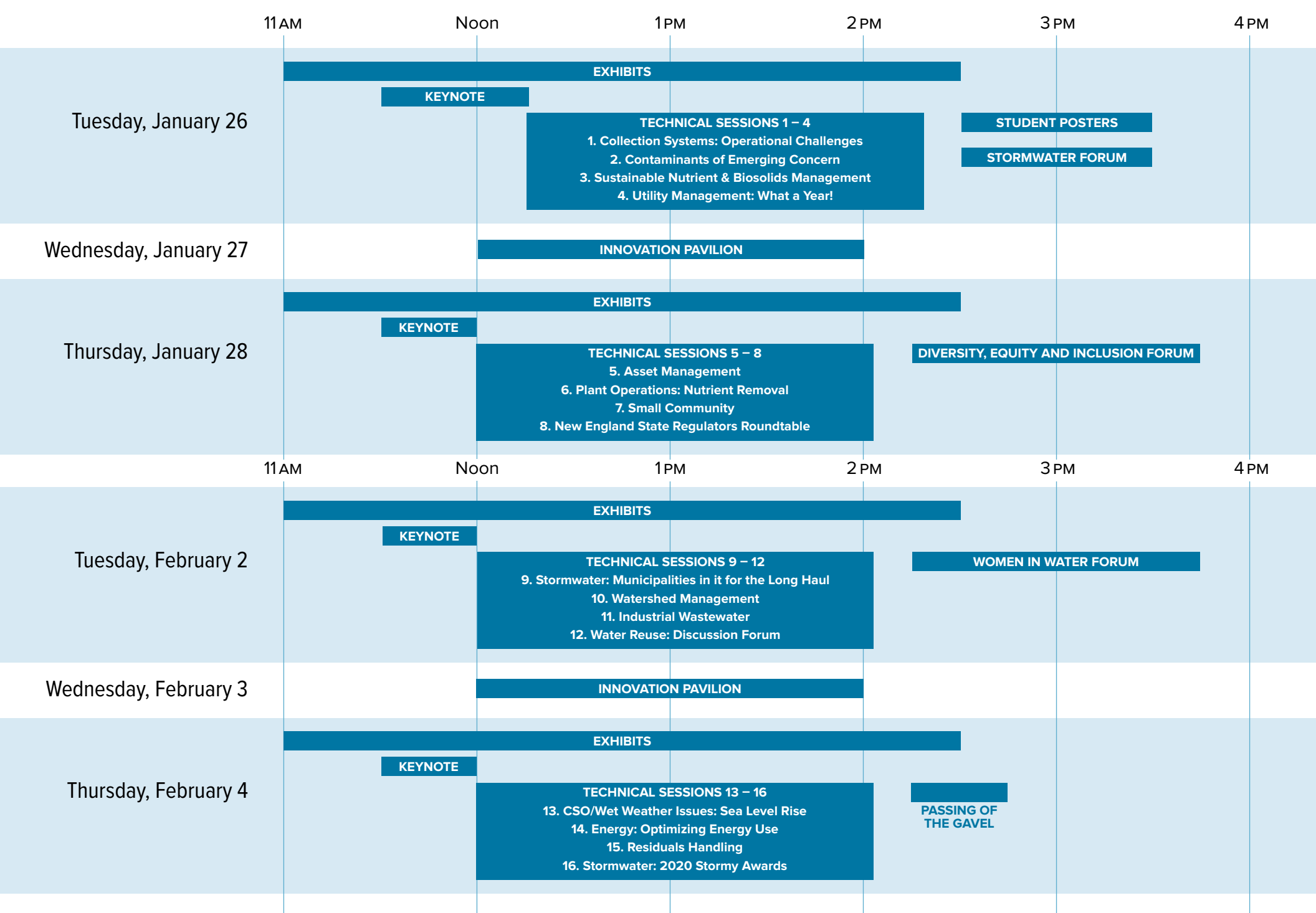
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New England Water Environment Association

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NEWEA 2021 ANNUAL CONFERENCE & EXHIBIT • FINAL PROGRAM • SCHEDULE-AT-A-GLANCE



COMMITTEE MEETINGS

JANUARY 25

Collection Systems • 9 – 10 AM

Stormwater • Noon – 1 PM

Laboratory Practices • 1 - 3 PM

JANUARY 26

Plant Operations • 9 – 10 AM

JANUARY 28

Asset Management • 10 – 11 AM

Young Professionals • 4 – 4:30 PM

JANUARY 29

Operations Challenge • 10 – 11 AM

Sponsor • 1 – 2:00 PM

FEBRUARY 1

Assessment and Development • 2 – 2:40 PM

FEBRUARY 2

Water Reuse • 10 – 11 AM

FEBRUARY 4

Energy • 10 – 11 AM

FEBRUARY 5

CSO/Wet Weather • Noon – 1 PM

Click underlined meeting name to join meeting

NEWEA 2020 LEADERSHIP

EXECUTIVE COMMITTEE

President – Jennifer Kelly Lachmayr

President-Elect – Virgil Lloyd

Vice President – Frederick McNeill

Treasurer – Clayton “Mac” Richardson

Past President – Raymond Vermette

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Collection Systems and Water Resources – Vonnie Reis

Communications – Meg Tabacsko

Innovation – Dr. Marianne Langridge

Meeting Management – Amy Anderson George

Management Review – Raymond Vermette

Public Outreach – Justin Skelly

Treatment, Systems Operations, and Management – Philip Forzley

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Rhode Island – Scott Goodinson

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James Barsanti

Peter Garvey

Matthew Formica

Susan Sullivan

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Kate Biedron Memorial Fund Task Force – Meg Tabacsko

Workforce Development* – Daniel Bisson

* Ad hoc

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Collection Systems – Scott Lander
CSO/Wet Weather Issues – Steve Perdios
Industrial Wastewater – Rebecca Weidman
Stormwater – Angela Blanchette
Sustainability – Courtney Eaton
Water Reuse – Rob Scott
Watershed Management – Sara Greenberg

COMMUNICATIONS COUNCIL

Journal – Alexandra Greenfield
Public Awareness – Denise Descheneau
Youth Education – Leonard Young

INNOVATION COUNCIL

Innovation* – Dr. Marianne Langridge

MANAGEMENT REVIEW COUNCIL

Assessment and Development – Marylee Santoro
Awards – Jay Sheehan
Bylaws – Michael Bonomo
Committee Member Appreciation – Denise Descheneau
Nominating – James Barsanti
Sponsor – Brian Olsen

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Conference Arrangements – Ronald Tiberi
Exhibits – Corey Meyers
Program – Lauren Hertel
Registration – Meg Tabacsko

OUTREACH COUNCIL

Government Affairs – Scott Firmin
Membership – Peter Frick
Safety – David Wright
Scholarships – Nick Valinski
Student Activities – Nick Tooker
Water for People – Renie Jesanis
Young Professionals – Colin O'Brien

* Ad hoc

TREATMENT, SYSTEMS OPERATIONS, AND MANAGEMENT COUNCIL

Asset Management – Daniel Roop

Contaminants of Emerging Concern – Janine Burke-Wells

Energy – Sharon Nall

Laboratory Practices – Walter Palm

Operation Challenge – Scott Goodinson

Plant Operations – John Adie

Residuals Management – Eric Spargimino

Small Community – Kurt Mailman

Utility Management – Gary Zrelak

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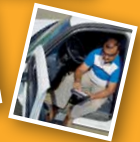


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New England Water
Environment Association
Presents:

NEWEA 2021 Annual Conference

VIRTUAL • January 26 – 28, February 2 – 4



WATER FOR LIFE
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CONFERENCE EVENTS

Tuesday, January 26

Exhibits	11:00 AM – 2:30 PM
Keynote Speaker	11:30 AM – 12:15 PM
Concurrent Sessions 1 – 4	12:15 – 2:20 PM
Student Poster Sessions.....	2:30 – 3:30 PM
Stormwater Forum.....	2:30 – 3:30 PM

Wednesday, January 27

Innovation Pavilion	12:00 – 2:30 PM
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Thursday, January 28

Exhibits	11:00 AM – 2:30 PM
Keynote Speaker	11:30 AM – Noon
Concurrent Sessions 5 – 8	Noon – 2:05 PM
Diversity, Equity and Inclusion Forum	2:15 – 3:45 PM

CONFERENCE EVENTS (continued)

Tuesday, February 2

Exhibits	11:00 AM – 2:30 PM
Keynote Speaker	11:30 AM – Noon
Concurrent Sessions 9 – 12	Noon – 2:05 PM
Women in Water Forum	2:15 – 3:45 PM

Wednesday, February 3

Innovation Pavilion	Noon – 2:00 PM
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Thursday, February 4

Exhibits	11:00 AM – 2:30 PM
Keynote Speaker	11:30 AM – Noon
Concurrent Sessions 13 – 16	Noon – 2:05 PM
Passing of the Gavel	2:15 – 2:45 PM

TUESDAY, JANUARY 26 11:00 AM – 3:30 PM

Exhibit Hall	11:00 AM – 2:30 PM
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Opening Keynote Speaker

11:30 AM – 12:15 PM



Vikki N. Spruill

Lauren Hertel, Woodard and Curran, NEWEA Program Chair

Jennifer Kelly Lachmayr, Arcadis, NEWEA President

Vikki N. Spruill, President and CEO of the New England Aquarium

Vikki N. Spruill is President and CEO of the New England Aquarium and its research and conservation institute, the Anderson Cabot Center for Ocean Life at the New England Aquarium. She previously served as president and CEO of the Council on Foundations, the largest association of philanthropic grant-making organizations, and Ocean Conservancy, a science-based advocacy organization dedicated to the oceans. Ms. Spruill founded the Trash Free Seas Alliance, and helped found and currently serves on the board of COMPASS, which empowers scientists to better engage in public discourse on environmental issues. She was also the founding director of SeaWeb.

Technical Sessions 1 – 4 (concurrent) 12:15 – 2:20 PM

Session 1

**Collection Systems:
Overcoming
Operational
Challenges: The Future
Depends on What You
Do Today**

Moderators:

Kara Johnston, CDM Smith
Tom Loto, AECOM

Wastewater Surveillance for COVID-19 Disease in Detroit, MI

Dr. Anna Mehrotra, CDM Smith
Brijen Miyani, Michigan State University
John Norton, Jr., Great Lakes Water Authority, MI
Irene Xagorarakis, Michigan State University

Developing an Early Warning Sensor for Chemical Anomalies in Wastewater Collection Systems

Alfred Navato, Northeastern University
Ken Pousland, Upper Blackstone Clean Water, MA
Dr. Edris Taher, Upper Blackstone Clean Water, MA
Amy Mueller, Northeastern University

When an Existing Force Main Becomes a Cascading Waterfall

John Potts, Weston & Sampson
Michael Vosnakis, Town of Chelmsford, MA
Gary Persechetti, Town of Chelmsford, MA
Stephen Jahnle, Town of Chelmsford, MA

What Came First? The Pump Station or the Shopping Plaza? Major Sewer Pump Station Replacement in Fall River

Jennica Srey, Wright-Pierce
Paul Ferland, City of Fall River, MA
Edward Whatley, Wright-Pierce

Session 2

**Contaminants of
Emerging Concern:
Pandemic, PFAS and
Plastics...oh my!**

Moderators:

W. Camilla Kuo-Dahab,
University of
Massachusetts, Amherst
John Bergendahl,
Worcester Polytechnic
Institute

Influence of Sludge Management on Per and Polyfluoroalkyl Substances (PFAS) Within and After Treatment

Sydney Adams, University of New Hampshire
Paula Mouser, University of New Hampshire
James Malley, University of New Hampshire

Aclarity—Electrochemical Contaminant Destruction

Julie Bliss Mullen, Aclarity

Spatial and Temporal Distribution of COVID-19 Biomarkers in NH Wastewater Treatment Facilities

Dr. Fabrizio Colosimo, University of New Hampshire
Mina Aghababaei, University of New Hampshire
Stephen Jones, University of New Hampshire
Paula Mouser, University of New Hampshire

Microplastics: from Sinks to Oceans, and the Water in between

Teigan Gulliver, HDR

Technical Sessions 1 – 4 (concurrent) 12:15 – 2:20 PM

Session 3

**Sustainability:
Technologies for
Sustainable Nutrient
and Biosolids
Management**

Moderators:

Lenna Quackenbush, GHD
Courtney Eaton, Kleinfelder

Small Community Solutions—Packed Bed Filter Achieves Stable Nutrient Reduction

Dennis Hallahan, Infiltrator Water Technologies

Membrane Aerated Biofilm Reactor (MABR) Technology Offers Resiliency and Sustainability to Nitrogen Removal Challenges

Dr. Amit Kaldate, Suez

Achieving Ultra-Low Phosphorus and Metals Removal at Burrillville, RI

Dr. Damian Kruk, Nexom

Stop Hauling Water! RMI Launches Shincsi-USA Dryer Projects in New England

Charley Hanson, Resource Management, Inc.
April Sargent, Resource Management, Inc.

Session 4

**Utility Management:
What a Year!**

Moderators:

Gary Zrelak, Greater New Haven WPCA, CT
Kevin Garvey, Wright-Pierce

Resiliency Planning—More Important than Ever

Roger Null, HDR

Impacts of the COVID-19 Quarantine on the Water & Energy Sector

Chelsea Conlon, JK Muir
Megan Whitesell, JK Muir

Our New World—Digital Solutions That Effectively Optimize Your Utility

Michael Karl, Brown and Caldwell

Technology for 2021 and Beyond

Michael Karl, Brown and Caldwell

2:30 – 3:30 PM

Moderators:

Nick Tooker, University of
Massachusetts, Amherst
Joanna Sullivan,
Hazen and Sawyer

Student Poster Session

Students throughout New England will present their work in the Student Poster Competition hosted by the Student Activities Committee. There are divisions for both graduate and undergraduate students, and the presenters will be able to answer questions during our live session. Prizes will be awarded for the top posters in each division.

2:30 – 3:30 PM

Moderators:

Jennifer Doyle-Breen,
AECOM
Patrick Gordon, Storm Trap

Stormwater Forum

Four Years of MS4 Assistance from MassDEP

Dr. Laura Schifman, MassDEP

“Think Blue”

Kerry Reed, City of Framingham, MA

Panelists:

- Peter Carney on the Long Creek Watershed District
- Dr. Laura Schifman, MassDEP
- Kerry Reed, City of Framingham, MA

INNOVATION PAVILION

Wednesday, January 27 Noon – 2:00 PM

Moderators:

Miles Walker,
Woodard & Curran
Dr. Marianne Langridge,
Sustainable Synthesis

Innovation Success, What Will it Take?

The Innovation Pavilion, the Council's premier event, is held over the course of 2 days during NEWEA's Annual Conference and features panel discussions and presentations from some of the most promising water innovators in the region. The 2021 event featured panel discussions on challenges for innovation startup, funding, adoption and pilot programs. This event was developed with the goal of building awareness, sharing ideas, and creating connections between businesses, utilities, regulators, and academics to drive innovation in our region.

Noon: *Kickoff*

12:10: Elemental Exceleator Update

- Kim Baker, Director of Innovation, Water, Elemental Exceleator

12:30: You Have An Idea...How Do You Start?

In this session our panelists will describe the activities and critical success factors to move an idea forward. We will discuss education, networking, value propositions and communications to help participants gain the knowledge needed to start their innovation journey.

Panelists:

- Matt Silver, Founder and CEO, Cambrian Innovation
- Joyce Ferris, Founder and Managing Partner, Blue Hill Partners
- Kimberly Baker, Director of Water Innovation, Elemental Exceleator
- Julie Bliss Mullen, Founder and CEO, Aclarity Water

1:00: Where Are They Now

- Matt Silver, Cambrian Innovation
- Julie Bliss Mullen, Aclarity Water

1:10: Connecting Innovators with Funding

The fact is that all great ideas will require funding to enable them to proceed and succeed. In this session we will provide participants with guidance as they look for funding for their innovations.

Panelists:

- Matt Silver, Founder and CEO, Cambrian Innovation
- Joyce Ferris, Founder and Managing Partner, Blue Hill Partners
- Kimberly Baker, Director of Water Innovation, Elemental Exceleator
- Julie Bliss Mullen, Founder and CEO, Aclarity Water

1:45: Wrap Up

Exhibit Hall11:00 AM – 2:30 PM

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Opening Keynote Speaker

11:30 AM – Noon



OJ McFoy

Jennifer Kelly Lachmayr, Arcadis, NEWEA President

Oluwole A. (OJ) McFoy, General Manager, Buffalo Sewer Authority, Buffalo, NY

Oluwole A. (OJ) McFoy was appointed in 2015 to serve as the Buffalo Sewer Authority’s General Manager. A Native of Buffalo, NY, McFoy was educated in the Buffalo Public School system, and is a 1993 graduate of Hutchinson Central Technical High School. McFoy is a graduate of Clarkson University with a Bachelors of Science Degree in Civil Engineering. He is a licensed Professional Engineer in the State of New York, bringing over 20 years of executive leadership, program management, and infrastructure design experience to regional water quality initiatives.

Joining the Buffalo Sewer Authority as Chief Operating Officer in 2006, McFoy has also held positions of Chief Engineer, responsible for executing the 20 year commitment to minimize the effects of combined sewer overflows on local waterways, and Chief Financial Officer, charged with managing the Authority’s bonds, investments and annual budget.

In 2007, McFoy was appointed Chairman of the Buffalo Water Board by Mayor Byron W. Brown, and continues to serve in this role. As Chairman, he led the 2010 management team transition, negotiating a \$55 Million, ten year public/private agreement with Veolia Water, to provide reliable and professional delivery of drinking water for the city.

In efforts to promote the value of water, McFoy serves as the New York Water and Environment Association’s representative to the Water Environment Federation House of Delegates, on the US Water Alliance’s Water Equity Taskforce, and was recently elected to the Board of the National Association of Clean Water Agencies.

Recognizing the opportunities afforded him, McFoy enjoys bringing engineering into the classroom frequently presents to elementary, middle, and high school students. As a FIRST Lego League Jr. technical advisor for TEAM 2713, McFoy is most proud of introducing 1st and 2nd graders to anaerobic digestion during the Waste Wise challenge, receiving regional awards for the Teams Lego facility model and presentation board.

Session 5

Asset Management: Getting the Most Out of Your Asset Management Dollars

Moderators:

Teresa Demers,
Woodard & Curran
Daniel Roop, Tighe & Bond

Asset Management Planning for Wastewater Systems— A Case Study in Gardner, MA

James Hoyt, Tata and Howard
Steven Landry, Tata and Howard

Using Asset Management Decision Trees for Sewer Rehabilitation to Mitigate CSO Events in Haverhill, MA

Eliza Morrison, Wright-Pierce
Matthew Corbin, Wright-Pierce

System-Wide Pump Station Assessment for Effective Prioritization and CIP Development in Newton, MA

Nick Stevens, Brown and Caldwell
Adrian D’Orlando, Brown and Caldwell

Milwaukee Metropolitan Sewerage District’s Asset Management Journey

Jeff Stillman, Black & Veatch
Greg Hottinger, Milwaukee MSD, WI
Paul Boersma, Black & Veatch

Session 6

Plant Operations: Nutrient Removal

Moderators:

John Adie, NHDES
Nick Tooker, University of
Massachusetts, Amherst

Optimizing Nitrogen Removal Performance from Diurnal Influent Nitrogen Loading Pattern: Operator’s First Experiences Using a Grant Funded Instrumentation Installation to Make Process Control Decisions

Stephanie Alimena, Kleinfelder
Matt Lapointe, Suez
Bill Fuqua, Springfield Water and Sewer Commission, MA

The Data Management Plan Puzzle—Putting the Pieces Together

Dr. Edris Taher, Upper Blackstone Clean Water, MA
Karla H. Sangrey, Upper Blackstone Clean Water, MA
Timothy Loftus, Upper Blackstone Clean Water, MA
Mark Johnson, Upper Blackstone Clean Water, MA

Utilizing a Combination of Proven and Innovative Technologies to Achieve Stringent Nutrient Limits

Amine Hanafi, Woodard & Curran
Paul Dombrowski, Woodard & Curran
Jennifer Leister, Upper Montgomery Joint Authority, PA
Ken Kohlbrenner, Woodard & Curran

Piloting a Pre-Anoxic Fixed Film Process for Nitrogen Removal at the Poquonock WPCF

Jeff Reade, AECOM
Dennis Setzko, AECOM
Carl Veilleux, Metropolitan District Commission, CT

Session 7

**Small Community:
Effective Wastewater
Considerations and
Solutions for Small
Communities in New
England**

Moderators:

Mary Danielson,
Tighe & Bond
Dan Ottenheimer, Oakson

Electrochemical Systems for Nitrogen Treatment in Septic Systems

Quynh-May Dao, Aclarity

Northern Exposure: North Conway Septage Receiving and Dewatering Upgrades

Paige Howard, Wright-Pierce
Michael Curry, Wright-Pierce

What's That Pipe Worth? Calculating Economic Return on Sewer Investment

Jay Sheehan, Woodard & Curran

Partnering in Design to Optimize Nitrogen Removal to the Limit of Technology (and Beyond)

Marc Drainville, GHD
Richard Peter, Weston & Sampson

Session 8

**Government Affairs:
New England State
Regulators Roundtable**

Moderators:

Scott Firmin,
Portland Water District, ME
F. Adam Yanulis,
Tighe and Bond

The pandemic has certainly affected utilities and regulators. While significant resources are still dedicated towards navigating COVID-19, the regulatory process continues. This session will share common themes across our New England States and highlight developing items in others. This session continues the annual tradition to host this session at the Annual Conference. We hope to have panelists from all six states.

Panelists:

Connecticut: Rowland Deny, Supervising Environmental Analyst, CT DEEP

Massachusetts: Kathleen Baskin, Assistant Commissioner, Bureau of Water Resources

Maine: Gregg Wood, Director, Division of Water Quality Management, ME DEP

New Hampshire: Thomas O'Donovan, Water Division Director, NH DES

Rhode Island: Angelo Liberti, Administrator, Surface Water Protection, RI DEM

Vermont: Amy Policy, Wastewater Program Director, VT DEC

Diversity, Equity, and Inclusion Forum

2:15 – 3:45 PM

Moderators:

Marina Fernandes,
Tighe & Bond
Isabella Cobble,
Tighe & Bond
Jennifer Lawrence,
Tighe & Bond
Michael Guethle,
Wright- Pierce
Stephen King,
City of Danvers, MA
Jordan Gosselin, NEWEA
Nick Tooker, University of
Massachusetts Amherst

Analyzing Racial Inequalities in the Water and Wastewater Industry

As our nation grapples with systemic racism against Black Americans, we must examine the programs, structures (i.e. academic, workplace, community, etc.), and policies of the water and sanitation industry to determine improvements that can be made for racial equality. This panel discussion aims to foster a thoughtful dialogue around this topic, as well as identify steps we can take in each of our respective workplaces to ensure that we are equitably serving our communities and expanding the diversity of our industry.

While we acknowledge that systemic racism is also a reality felt by other racial minorities, this panel will focus on the issues surrounding Black Americans and hopefully will serve as a starting point for additional discussions around diversity and equality.

Our session will begin with an introductory presentation by Mr. Oluwole (OJ) McFoy, the general manager for the Buffalo Sewer Authority. He will present on the initiatives and progress made by the Authority on diversity. His presentation will be followed by the panel discussion which he will moderate. Below is a list of our panelists:

- Nikita Lingenfelter, Engineer with the State of Nevada Department of Environmental Protection and Water Environment Federation House of Delegates
- Ifetayo Venner, Wastewater Treatment Service Line Leader, Arcadis NA, WEF Board of Trustees
- Stephen Sanders, Director and Head Trainer at the Environmental Training Center at Morrisville State College
- Rachel Gilbert, DE&I Manager, Principal, Woodard & Curran

continued on next page



OJ McFoy



Nikita Lingenfelter



Ifetayo Venner



Stephen Sanders



Rachel Gilbert

Diversity, Equity, and Inclusion Forum

2:15 – 3:45 PM

Panel members will facilitate discussion around the following topics:

- What are the systems and actions that perpetuate racial inequalities, including discrimination, unconscious bias, and structural barriers?
- Why are Black Americans underrepresented in our industry, including inequities in recruitment, retention, and promotion practices; limited access to equal education; and a lack of encouragement to pursue STEM related jobs from an early age?
- What are ideas for positive change and specific actions we can each pursue within the bounds of our roles and responsibilities to promote racial equality in our industry (such as targeted education and training programs, revised hiring and advancement practices, and the encouragement of self-reflection and continued discussion around diversity, equality, inclusion, and racial injustice)?

We invite you to think critically about how you can use your power or position to affect change. What can you and your organization do? What would promote equity, justice, and mobilize meaningful change? Whether you are a senior or junior leader, how can you advocate for such actions? Leaders at every level must use their power, platforms, and resources to help employees and communities overcome these challenges and build a better world for us all.

There is a growing need for talent throughout the water industry and to meet our goals, it is important that we continue to listen to diversified voices. Together, we can work to end racial inequality in water and wastewater industry.

Exhibit Hall11:00 AM – 2:30 PM

Opening Keynote Speaker

11:30 AM – Noon



Liza Morris

Lauren Hertel, Woodard and Curran, NEWEA Programs Chair

Liza Morris, Alkemi Group

Liza Morris is an award-winning strategist with more than 20 years of experience in science communications. She works with organizations to build scientific credibility, form partnerships, raise awareness, change perceptions, drive engagement, and measure results.

Liza launched Alkemi Group in 2014 with a nod toward the seemingly magical spark that occurs when clients are connected with the right strategies, messages, people, and ideas. Previously, she spent two decades in health science communications—leading offices in New York and Washington, D.C. for Spectrum and Feinstein Kean Healthcare (an Ogilvy company) and serving as head of corporate communications for FHI 360.

Over the last 20+ years, Liza has worked on a range of issues in life science, consumer science, public health, social science, and policy. Her longest-running project is with the Progeria Research Foundation (PRF), which began in 2003 when progeria was a little-known disease. Liza managed PRF's 2003 gene finding announcement, and has since built a global campaign to identify children with Progeria worldwide, placed an HBO documentary about PRF's founders, placed a TEDx talk that is currently the 9th most watched talk on TED.com, and recently managed the announcement for the first FDA-approved treatment for progeria.

Liza graduated from American University with a BA in Journalism and earned her MS in Communications Management at Syracuse University's Newhouse School of Public Communications. She serves on the Board of Directors for The Progeria Research Foundation and is a long-time TEDx curator. Liza was named 2006 Rising Star by Healthcare Businesswomen's Association. Her work has been recognized by the Platinum PR Awards and the PRSA Thoth Awards.

Session 9

Stormwater: Municipalities in it for the Long Haul

Moderators:

Angela Blanchette,
Town of Scarborough, ME
Kathryn Edwards, Arcadis

Ghosts of Drainage Systems Past—Restoring the Cress Brook Drainage System in Fall River

Andrew Smith, Wright-Pierce
Paul Ferland, City of Fall River, MA
Edward Whatley, Wright-Pierce

Falling Back In Love with Grey Infrastructure—A New England Community's Proactive Approach to Managing Stormwater Infrastructure

Zach Henderson, Woodard & Curran

Reinvesting in History and Place to Build Resiliency and Community in Quincy, MA

Joseph Kirby, Woodard & Curran
Daniel Windsor, Woodard & Curran

Inside-Out—Comprehensive Stormwater Mitigation and Lake Sediment Phosphorus Inactivation Reduce Harmful Algal Blooms

Maria Rose, Newton Public Works Department, MA
Dr. Ken Wagner, Water Resource Services
Carly Quinn, Woodard & Curran

Session 10

Watershed Management: From Planning to Implementation

Moderators:

Sara Greenberg, GHD
Steve Wolosoff, CDM Smith

Estimating Nitrogen Loading from Onsite Wastewater Treatment Systems in Coastal Connecticut

Constantine Karos, CDM Smith
Zach Eichenwald, CDM Smith
Mary Anne Taylor, CDM Smith
Kelly Streich, CT DEEP

People, Process, and Performance—A Tailored Approach to Integrated Water Resources Planning in Portland

Laura Nolan, Kleinfelder
Nancy Gallinaro, City of Portland, ME
Daniel Bisson, Tighe & Bond
Stephanie Alimena, Kleinfelder

Setting Site-Specific Aquatic Life Use Targets in Watersheds and Estuaries—An Effective Alternative to Numeric Nutrient Criteria

Paul Stacey, Footprints in The Water

Keeping Downtown Above Water—Urban Flood Control Strategies in Salem, Mass.

David White, Woodard & Curran
David Knowlton, City of Salem, MA

Session 11

Industrial Wastewater: Innovative Techniques for Treating Industrial Wastewater

Moderators:

Sarah White,
Unifirst Corporation
Russell Parkman,
Ramboll

Treatment of Wastewater from Steel Industry Using Various Type of Natural and Chemical Coagulants

Mina Aghababaei, University of New Hampshire
Sayed Hossein Hashemi, Shahid Beheshti University
Naghme Mobarghaee, Shahid Beheshti University
Reza Deihimfard, Shahid Beheshti University
Tahereh Ebrahimi, Shahid Beheshti University

Treatment of Selected Pharmaceutical Drugs in a Batch Aerobic Suspended Bioreactor

Dr. Mohamed Hamoda, Kuwait University

Temporary Treatment Facility Improves Long-term ROI for Food Manufacturer

Joshua Jondro, Woodard & Curran

Industrial and Aviation Contamination—Looking Upstream to Prevent PFAS from Impacting Municipal Wastewater

Patrick McKeown, ECT2

Session 12

Water Reuse: Discussion Forum

Moderators:

David Moering,
Woodard & Curran
Anastasia Rudenko, GHD

Effective Online Microbial Monitoring for Onsite Water Reuse

Sheng Chu, Natural Systems Utilities
Zach Gallagher, Natural Systems Utilities
Derek Dunn, LuminUltra Technologies
Jonathan Clarke, LuminUltra Technologies

Well, Well—Securing Future Disposal Capacity for the West Island WWTF

Meredith Zona, Stantec
Linda Schick, Town of Fairhaven, MA
Rene Robillard, Town of Fairhaven, MA
David B. Hill, Stantec
Richard Learned, Stantec

Women in Water Forum

2:15 – 3:45 PM

Moderator:

Freddie Kay

Organizers:

Michaela Bogosh,
CDM Smith

Angela Moulton,
CDM Smith

Jessica Englehart,
GEI Consultants

Danielle DiRuzza, MWRA

Katherine Ronan, MWRA

Jordan Gosselin, NEWEA

Marina Fernandes,
Tighe & Bond

**Commemorating the 100th Anniversary
of the 19th Amendment**

The New England Water Environment Association and the Women’s Environmental Network are commemorating the the 100th anniversary of the 19th amendment, guaranteeing and protecting women’s constitutional right to vote. Join us for a panel discussion and a moderated Q&A that will honor the history of women’s fight for the right to vote, acknowledge the challenges that persisted for women, specifically women of color, following the amendment’s ratification, and identify challenges we still must overcome.

The 19th Amendment was a vital step in women’s fight for equality, but much work remained after the ratification of the amendment and much work still remains to be done, including eliminating the wage gap, gaining equal representation in senior management and leadership roles, and removing the stigma and challenges faced by working mothers. This event was developed with the goal of reflecting on the state of the water industry before women had a seat at the table, showcasing the progress women have made in the past few decades, and discussing potential shortfalls and where we can strive to aim higher.

We are pleased to feature a line-up of speakers with a great deal of experience in various roles throughout the water industry. They will offer diverse perspectives for discussing this historic anniversary, highlight their own experience with the evolution of the water industry, and discuss progress needed for the future of the industry. With the monumental landmark of our country’s first female Vice President, there is no better time to celebrate and host this important discussion!

continued on next page



Women in Water Forum

2:15 – 3:45 PM



Below is a list of our panelists:

- Fredie Kay is an attorney and advocate for women’s rights. In 2010—to commemorate the 90th anniversary of women’s suffrage—she founded and is President of Suffrage100MA. The organization is now a non-profit with nearly 200 Partner organizations. She was a member of the Equal Pay Coalition of Massachusetts, participating in its successful effort to legislate the 2016 Equal Pay Act. She serves on the Votes for Women National Trail Committee of the National Collaborative of Women’s History Sites and on the Women’s Vote Centennial Initiative Task Force of the National Women’s Party.
- Liz Levin, Board Member, Normandeau Associates, author of *Boots on the Ground—Flats in the Boardroom*, Ms. Levin previously served on the Board of Directors for MassDOT and the MBTA and is chair of the Massachusetts Government Appointments Project (MassGAP), an organization advocating for women in government.
- Phyllis Arnold Rand, Water Quality Coordinator for the Greater Augusta Utility District (Augusta, Maine), Ms. Rand was NEWEA President in 2006 and has more than 30 years experience in the wastewater treatment profession.
- Megan Yoo Schneider, Founder and President, Seven Management and Consulting, Inc. and Vice President, Board of Directors for the Municipal Water District of Orange County serves on the Board of Directors for the Municipal Water District of Orange County as the first woman of color and first female engineer elected to represent a population of 3.2 million residents.
- Elisa Speranza, President, Seventh Ward Strategies, LLC, has spent 30+ years serving in various roles in the government, non-profit, and private sectors. Most recently, she was a C-suite executive and board member for the Fortune 500 global project management firm CH2M (acquired by Jacobs in 2017). She currently serves as a mayoral appointee to the Infrastructure Advisory Board, overseeing the “fair share” public investments in New Orleans’ water, sewer, and drainage infrastructure.



Fredie Kay



Liz Levin



Phyllis Arnold Rand



Megan Yoo Schneider



Elisa Speranza

INNOVATION PAVILION

Wednesday, February 3 Noon – 2:00 PM

Moderators:

Josh Griffiths, Evoqua
Dr. Marianne Langridge,
Sustainable Synthesis

Innovation Success, What Will it Take?

The Innovation Pavilion, the Council's premier event, will be held over the course of two days during NEWEA's Annual Conference and features panel discussions and presentations from some of the most promising water innovators and students in the region. The 2021 event featured panel discussions on challenges for innovation startup, funding, adoption and pilot programs. This event was developed with the goal of building awareness, sharing ideas, and creating connections between businesses, utilities, regulators, and academics to drive innovation in our region.

Noon: Kickoff

12:10: Connecting Innovators with Challenges

In this panel, we will explore how to match challenges with solutions. This will include a panel of experts to discuss the following questions:

How do you determine your value proposition?

How do you find appropriate challenges / problems?

What causes innovation to stall out? (Distractions / lack of funding / lack of value / communication, being too nice)

Panelists:

- Brianne Nakamura, WEF
- Christine Foss, Evoqua
- Dan Cho, Onvector

1:00: Connecting Innovators with Pilots

One of the greatest challenges in moving forward innovations related to water and the environment is being able to test and prove solutions beyond the laboratory setting. In this session we will hear from organizations that have participated in pilot programs as they share their lessons learned.

Panelists:

- Howard Carter, Director Water Resource Recovery Department at City of Saco Maine and WRF
- Dr. Christobel Ferguson, Water Research Foundation
- Hichem Hadjeres, U.S. Department of Energy
- Dr. David Reckhow, Professor, University of Massachusetts, Amherst
- Roberto Vengoechea, Watts Water

1:45: Wrap Up

Exhibit Hall11:00 AM – 2:30 PM

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Opening Keynote Speaker

11:30 AM – Noon



Jamie Eichenberger

Jennifer Kelly Lachmayr, Arcadis, NEWEA President

Jamie Eichenberger, HDR, Water Environment Federation (WEF) President-elect

Jamie Eichenberger, is the 2020–21 President-elect of the Water Environment Federation (WEF), an international organization of water quality professionals headquartered in Alexandria, VA.

Jamie is an Associate Vice President and serves as the Utility Management Services Leader for Colorado and Wyoming at HDR in Denver, CO.

Jamie has been an active member of WEF since college, participating in student chapter events that ultimately led to his first job in the water sector. A member of the Rocky Mountain Water Environment Association, Jamie served as president in 2010, before joining the House of Delegates where he served as Speaker of the House in 2015–16. He has also served on several WEF committees including the Government Affairs, Public Communications and Outreach, Finance, and Audit committees.

Jamie is a professional engineer and earned his bachelor's and master's degrees, both in environmental engineering, from the Colorado School of Mines.

Technical Sessions 13 – 16 (concurrent)Noon – 2:05 PM

Session 13

CSO/Wet Weather Issues: Rise of the Machines and the Atlantic—Computer Modeling and Sea Level Rise

Moderators:

Steve Perdios, Dewberry
Mike Armes, ADS
Environmental Services

Lights, Camera, Action! Integrating Video with Computer Model and Flow Meters to Validate and Enhance Realtime CSO Reporting Practices

Ana Fernandes, Stantec
Josh Schimmel, Springfield Water and Sewer Commission, MA
Bill Fuqua, Springfield Water and Sewer Commission, MA
Matthew Travers, Stantec

Operational Knowledge-Sharing Using 3D Depictions of Sewer Structures in Boston, MA

Adam Horst, Boston Water and Sewer Commission, MA
Jonnas Jacques, Kleinfelder

SWMMing with Updates: Preparing Bridgeport’s Hydraulic Model for Facilities Planning

Laurie Locke, CDM Smith
Mitchell Heineman, CDM Smith
Lauren McBennet Mappa, Water Pollution Control Authority of Bridgeport, CT

Adapting to the Challenges of Climate Change and Precipitation on Wastewater Infrastructure—A Wareham, MA WPCF Case Study

Lenna Quackenbush, GHD
Anastasia Rudenko, GHD

Session 14

Energy: Optimizing Energy Use in Wastewater Treatment

Moderators:

Sharon Nall, NHDES
Megan Whitesell, JK Muir

Energy Master Planning for Cost-effective Energy Management

Dr. Tracy Chouinard, Brown and Caldwell
Jordan Damerel, Fairfield Suisun Sewer District, CT
Alexis Valenti, Fairfield Suisun Sewer District, CT
Adam Ross, Brown and Caldwell

Is Ammonia-Based Aeration Control Worth the Effort?

Susan Guswa, Woodard & Curran
Jeff Gamelli, City of Westfield, MA
Julia Beni, Woodard & Curran

Town of Exeter, NH WWTF Upgrade Including Cost-effective Mixing for BNR and Sludge Holding Tanks

Tyler Kunz, EnviroMix
Matt Berube, Town of Exeter, NH

Low and No Cost Operational Measures for Energy and Cost Savings

Jen Muir, JK Muir
Mina Aghababaei, University of New Hampshire

Technical Sessions 13 – 16 (concurrent)Noon – 2:05 PM

Session 15

Residuals: Residuals Handling

Moderators:

Natalie Sierra,
Brown and Caldwell
Justin Motta, Stantec

Thermal Oxidation of Biosolids Provides a Pathway for Maximum Phosphorous Recovery—The German Approach
Webster Hoener, Black & Veatch
Dr. Christian Kabbe, Easy Mining

Treatment of Side-Stream Centrate at Pierce County & Bay Park WWTP Using Anammox Technology
Chandler Johnson, World Water Works

Emerging Contaminants in a Circular Economy—How Biosolids Programs Have Been Disrupted by PFAS
Eric Spargimino, CDM Smith
Maddison Ledoux, CDM Smith
Sarah Jakositz, CDM Smith

The Birth of a New Regional Biosolids Handling Facility
Dr. Eric Staunton, CDM Smith
Angelo Gaudio, Albany County Water Purification District, NY
Dan Rourke, Saratoga County Sewer District, NY
Robert Ostapczuk, Arcadis

Session 16

Stormwater: 2020 Stormy Awards

Moderators:

Kerry Reed,
Town of Framingham
Zach Henderson,
Woodard & Curran

City of Revere: *Bringing Stormwater Education In and Out of the Classroom*

Don Ciaramella, City of Revere, MA
Meg Tabacsko, MWRA. MA
Danielle DiRuzza, MWRA. MA

City of Portland: *India Street Green Roof Incentive*

Caitlin Camron, City of Portland, ME

Town of Lexington: *Enabling Contractors to use Municipal GIS*

John Livsey, Town of Lexington, MA
Kevin Flanders, PeopleGIS

Roundtable Discussion with Award Winners

2:15 – 2:45 PM

Closing Remarks/Passing of the Gavel

Jennifer Kelly Lachmayr, Arcadis, NEWEA President
Virgil Lloyd, Fuss & O'Neill, NEWEA President-elect



MODERATORS

TOPIC	MODERATOR.....	AFFILIATION
Asset Management	Teresa Demers.....	Woodard & Curran
Collection Systems.....	Kara Johnston	CDM Smith
Contaminants of..... Emerging Concern	W. Camilla Kuo-Dahab	University of Massachusetts, Amherst
CSO/Wet Weather Issues	Steve Perdios	Dewberry
Diversity, Equity, and..... Inclusion Forum	Marina Fernandes	Tighe & Bond
Energy	Sharon Nall	NHDES
Government Affairs.....	Scott Firmin.....	Portland Water District, ME
Industrial Wastewater.....	Sarah White	Unifirst Corporation
Innovation Pavilion	Dr. Marianne Langridge	Sustainable Synthesis
Plant Operations	John Adie	NHDES
Residuals	Natalie Sierra.....	Brown and Caldwell
Small Community	Mary Danielson.....	Tighe & Bond
Stormwater.....	Angela Blanchette	Town of Scarborough, ME
Stormwater 2	Kerry Reed	Town of Framingham, MA
Stormwater Forum.....	Jenifer Doyle-Breen	AECOM
Student Poster Session.....	Nick Tooker.....	University of Massachusetts, Amherst
Sustainability.....	Lenna Quackenbush	GHD
Utility Management.....	Gary Zrelak	Greater New Haven, WPCA, CT
Watershed Management.....	Sara Greenberg	GHD
Water Reuse.....	David Moering.....	Woodard & Curran
Women in Water Forum	Angela Moulton	CDM Smith

PRESENTERS

NAME	COMPANY	SESSION #
Sydney Adams	University of New Hampshire.....	2
Mina Aghababaei	University of New Hampshire.....	11
Stephanie Alimena.....	Kleinfelder	6
Matthew Berube	Town of Exeter, NH.....	14
Daniel Bisson.....	Tighe & Bond.....	10
Julie Bliss Mullen	Aclarity.....	2
Tracy Chouinard.....	Brown and Caldwell.....	14
Sheng Chu	Natural Systems Utilities.....	12
Fabrizio Colosimo.....	University of New Hampshire.....	2
Chelsea Conlon	JKMuir.....	4
Matthew Corbin	Wright-Pierce	5
Adrian D'Orlando.....	Brown and Caldwell.....	5
Quynh-May Dao.....	Aclarity.....	7
Paul Dombrowski	Woodard & Curran.....	6
Marc Drainville	GHD	7
Derek Dunn.....	Luminutra.....	12
Ana Fernandes.....	Stantec	13
Bill Fuqua.....	Springfield Water & Sewer Commission.....	6
Jason Gagnon.....	North Conway Water Precinct, NH.....	7
Nancy Gallinaro.....	City of Portland, ME.....	10
Rachel Gilbert	Woodard & Curran.....	DE&I Forum
Teigan Gulliver	HDR.....	2
Susan Guswa.....	Woodard & Curran.....	14
Dennis Hallahan.....	Infiltrator Water Technologies	3
Mohamed Hamoda	Kuwait University	11
Amine Hanafi.....	Woodard & Curran.....	6
Charley Hanson	Resource Management, Inc.....	3
Zach Henderson.....	Woodard & Curran.....	9
Webster Hoener	Black & Veatch	15
Greg Hottinger	Milwaukee Metropolitan Sewerage District, WI.....	5
Paige Howard.....	Wright-Pierce	7
James Hoyt.....	Tata and Howard	5
Jonnas Jacques.....	Kleinfelder	13
Chandler Johnson.....	World Water Works.....	15
Joshua Jondro.....	Woodard & Curran.....	11
Amit Kaldate.....	Suez	3
Michael Karl	Brown and Caldwell.....	4
Constantine Karos.....	CDM Smith	10
Fredi Kay.....	Suffrage100, MA.....	WIW Forum
Joseph Kirby.....	Woodard & Curran.....	9
Damian Kruk	Nexom	3

PRESENTERS (continued)

NAME	COMPANY	SESSION #
Tyler Kunz.....	EnviroMix, Inc.....	14
Matt Lapointe.....	Suez	6
Liz Levin	Normandeau Associates	WIW Forum
Nikita Lingenfelter	NVDEP, NV	DE&I Forum
Laurie Locke.....	CDM Smith	13
OJ McFoy.....	Buffalo Sewer Authority	DE&I Forum
Patrick McKeown	ECT2	11
Anna Mehrotra	CDM Smith	1
Eliza Morrison	Wright-Pierce	5
Jen Muir	JKMuir.....	14
Alfred Navato.....	Northeastern University	1
Laura Nolan.....	Kleinfelder	10
Roger Null.....	HDR.....	4
Val Peter.....	Weston & Sampson.....	7
John Potts.....	Weston & Sampson.....	1
Lenna Quackenbush	GHD	13
Carly Quinn	Woodard & Curran.....	9
Phyllis Rand.....	City of Augusta, ME.....	WIW Forum
Jeff Reade	AECOM.....	6
Rene Robillard.....	Town of Fairhaven, MA	12
Maria Rose.....	City of Newton, MA	9
Stephen Sanders	Morrisville State College.....	DE&I Forum
April Sargent.....	Resource Management, Inc.....	3
Laura Schifman.....	MADEP, MA	Stormwater Forum
Jay Sheehan	Woodard & Curran.....	7
Eric Spargimino.....	CDM Smith	15
Elisa Speranza.....	Seventh Ward Strategies.....	WIW Forum
Jennica Srey.....	Wright-Pierce	1
Paul Stacey.....	Footprints In The Water LLC	10
Eric Staunton	CDM Smith	15
Nick Stevens.....	Brown and Caldwell.....	5
Jeff Stillman.....	Black & Veatch	5
Edris Taher	Upper Blackstone Clean Water, MA	6
Ifetayo Venner.....	Arcadis	DE&I Forum
Ken Wagner	Water Resource Services, Inc.....	9
Edward Whatley.....	Wright-Pierce	9
David White.....	Woodard & Curran.....	10
Megan Whitesell	JKMuir.....	4
Daniel Windsor.....	Woodard & Curran.....	9
Megan Yoo Schneider.....	Orange County, CA.....	WIW Forum
Meredith Zona.....	Stantec	12

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CUES Manufacturer of water, wastewater, stormwater inspection equipment	Terri Mooney (terrim@cuesinc.com)
DLVEWS, Inc. Best culvert, sewer, manhole, and lightweight fill solutions.	Don Leblanc (don@dlvews.com)
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Green Mountain Pipeline Services (Gold Sponsor) Pipeline and infrastructure investigation and rehabilitation services.	Ray Bahr (ray@greenmountainpipe.com)
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Schulz Group, Power Systems by Timken Premier supplier of custom control panels in New England	Tina Romandetti (tina@schulzelectric.com)
SNF Polydyne Inc. Treating the World's Water	Jessica Knauss (jknauss@snfhc.com)
Sprayroq, Inc. High-Build, Fast-Curing SprayWall Polyurethane Structural Lining	Jessica Pierce (jpierce@sprayroq.com)
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Surpass Chemical (Bronze Sponsor) Water and Wastewater chemical manufacturer and distributor out of Albany NY	Tim Clayton (tim.clayton@surpasschemical.com)
Tulimieri Associates, Inc. D Tech Service offers No Charge Site Surveys for VFDs, Surge Protection	Dennis Tulimieri, Jr. (dennis.jr@tulimieri.com)
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Williamson Pump & Motor (Silver Sponsor)	Stephanie Compben (stephaniec@weco-group.com)



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DLVEWS, Inc.
F R Mahony & Assoc
Infra Pipe Solutions Ltd.

Maryland Biochemical
Company
Russell Resources, Inc.
Tulimieri Associates, Inc.



Biosolids/ Sludge

BAU Hopkins Inc.
Champlin Associates
F R Mahony & Associates
Maryland Biochemical
Company

Mechanical Solutions, Inc.
Orenco Systems Inc.
Resource Management Inc.
Russell Resources, Inc.



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Surpass Chemical
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CUES
Innovyze
JWB Company
Russell Resources, Inc.



Education

Massachusetts Alternative Septic System Test Center
Tulimieri Associates, Inc.



Engineering

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 Lombardo Associates Inc.
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 Raedlinger Primus Line

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 Systems by Timken
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 Associates

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 Systems by Timken
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Laboratory Services and Supplies

Massachusetts Alternative Septic System Test Center
 Tulimieri Associates, Inc.



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 Russell Resources, Inc.
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Homa Pump Technology, Inc.

Mechanical Solutions, Inc.
Orenco Systems Inc.
Tulimieri Associates, Inc.



Stormwater Detention, Retention, Conveyance & Treatment

DLVEWS, Inc.



New Pipe & Collection System Components

DLVEWS, Inc.
Infra Pipe Solutions Ltd.
Mechanical Solutions, Inc.
Orenco Systems Inc.



Sewer Maintenance, Inspection & Rehab Services

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CUES
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JWB Company
Green Mountain Pipeline Services
Maryland Biochemical Company
Orenco Systems Inc.
Raedlinger Primus Line
Tulimieri Associates, Inc.

EXHIBITOR HOURS

11:00 AM – 2:00 PM

Tuesdays 1/26, 2/2 and Thursdays 1/28, 2/4

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Amy Anderson George

Conference Arrangements Committee Chair

Ron Tiberi

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Office Administrator

Heather Howard

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Technical sessions that are approved by participating New England states for Operator Recertification Training Hours are noted in the TCH form. Operators must register and obtain attendance verification forms to receive credit.

Professional Engineers registered for the conference may also attend technical sessions to fulfill state requirements for Professional Development Hours.

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