

95th Annual Conference

New England
Water Environment
Association
presents



One Water: All for One and One For Water

NEWEA 2024 Annual Conference & Exhibit

January 21–24
Boston Marriott Copley Place
Boston, Massachusetts



NEWEA
WORKING FOR WATER QUALITY

PRELIMINARY CONFERENCE PROGRAM

Welcome to the 2024 NEWEA Annual Conference!



Robert Fischer
NEWEA President



Maureen Neville
*NEWEA Program
Committee Chair*

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This year's event theme is One Water, a holistic, collaborative approach to water management to ensure the sustainability and long-term resilience of our water resources. The One Water movement promotes transformative solutions to solve the most pressing challenges impacting the water environment. Many elements of this year's program will address key themes related to One Water.

The program features 37 technical sessions, a Student Poster Competition showcasing the work of water quality undergraduates and graduates, the Innovation Pavilion, and two floors of exhibitors highlighting the industry's latest products and services.

The conference commences on Monday with six morning and seven afternoon technical sessions on key industry issues. The Opening Session at 11:00 AM will convene attendees to hear from NEWEA and WEF leadership and our 2024 Keynote Speaker, Dr. Jonathan Gruber. Undergraduate and Graduate students will present their research in the Student Poster Competition throughout the day. The afternoon winds down with the first of two Exhibit Hall receptions on the 3rd floor.

Tuesday offers another full day of exciting events. We celebrate and recognize operators by offering morning and afternoon Plant Operations technical sessions, as well as the lunchtime Operator's Reception. A Plenary Session will be held from 11:00 AM to 12:30 PM, featuring a 45-minute panel discussion on existing and emerging challenges impacting our water resources followed by 45 minutes of pitches from innovators developing solutions to address these issues. These water industry innovators will also showcase their technologies and foster discussions on water innovation at the Innovation Pavilion, taking place in the Arlington Room. The day concludes with an Exhibit Hall Reception on the 4th floor.

The final day of the conference features exhibits, morning and afternoon technical sessions, our lunch-time awards ceremony recognizing outstanding efforts in our industry, and the passing of the gavel to the 2024 NEWEA President, Scott Goodinson of Narragansett, RI. We hope you take advantage of all the 2024 Annual Conference has to offer and use this occasion to connect with and support your water industry colleagues.

We wish to recognize the significant efforts of the Meeting Management Council and members of the Program, Registration, Exhibits, and Awards Committees who make this conference one to look forward to each year. Thanks to the members of all the technical committees who review abstracts, moderate sessions, and provide the technical and subject matter expertise we need to do our jobs better. This conference would not be possible without the tireless efforts of the NEWEA office staff: Mary Barry, Janice Moran, Jordan Gosselin, and Heather Howard. Thank you for your dedication, energy, professionalism, new ideas, and patience in planning and coordinating this great event every year!

Robert Fischer, NEWEA President
Maureen Neville, NEWEA Program Committee Chair



New England Water Environment
Association Presents

One Water: All for One and One for Water!

NEWEA 2024 Annual Conference & Exhibit

January 21–24, 2024
Boston Marriott Copley Place, Boston, MA

Conference Events

Sunday, January 21

Young Professionals Summit	9:00 AM–4:00 PM
<i>See description on page 29</i>	
New Committee Chair and Council Director Orientation	10:00 AM–Noon
Executive Committee Meeting	12:30–4:00 PM
Registration (4th Floor)	Noon–4:00 PM
Exhibit Hall Set-Up	Noon–6:00 PM
President’s Reception (3rd Floor Atrium)	4:00–6:00 PM

Monday, January 22

Registration (4th Floor)	7:00 AM–6:00 PM
Coffee and Continental Breakfast (3rd Floor Atrium)	7:30–9:00 AM
Annual Business Meeting	8:00–8:30 AM
Technical Sessions 1–6	8:30–10:30 AM
<i>See descriptions beginning on page 7</i>	
College Student Poster Board Competition	9:00 AM–2:30 PM
Coordinator: Joanna Sullivan, VHB • Session with authors	12:30–2:30 PM
Awards	3:00–3:30 PM
<i>See description on page 26</i>	
Exhibit Hall Grand Opening	10:30 AM
Paul Russell, Exhibits Committee Chair; Robert Fischer, NEWEA President	
Grand opening will take place at the main entrances of both the 3rd and 4th floor exhibit areas.	
Exhibits (3rd and 4th Floor Exhibit Areas)	10:30 AM–6:30 PM
Please note that the 3rd and 4th floor exhibit areas are connected by a stairwell in the back of the exhibit hall. <i>See list of exhibitors (as of 10/26/23) on pages 38-39.</i>	

Monday, January 22 continued

Opening Session	11:00 AM–Noon
<i>See description on page 5</i>	
Select Society of Sanitary Sludge Shovelers' Lunch	Noon–2:00 PM
by invitation—Charles Tyler, Influent Integrator	
Technical Sessions 7–13	2:00–4:30 PM
<i>See descriptions beginning on page 10</i>	
Exhibit Hall Break	3:00–3:30 PM
Committee Fair	3:00–4:00 PM
<i>See description below</i>	
Exhibit Hall Reception (3rd Floor Exhibit Area)	4:30–6:30 PM

Tuesday, January 23

Registration (4th Floor)	7:00 AM–6:00 PM
Coffee and Continental Breakfast (3rd Floor Atrium)	7:30–9:00 AM
Innovation Pavilion	8:00 AM–4:30 PM
<i>See description beginning on page 27</i>	
Exhibits (3rd and 4th Floor Exhibit Areas)	8:00 AM–6:30 PM
Technical Sessions 14–19	8:30–11:00 AM
<i>See descriptions beginning on page 14</i>	
Committee Fair	9:30–10:30 AM
<i>See description below</i>	
Exhibit Hall Break	9:30–10:00 AM
Plenary Session	11:00 AM–12:30 PM
Operator's Reception	12:30–1:45 PM
Sponsored by:	
Connecticut Water Environment Association	
Green Mountain Water Environment Association	
Maine Water Environment Association	
Massachusetts Water Environment Association	
Rhode Island Clean Water Association	
New Hampshire Water Pollution Control Association	
Technical Sessions 20–25	2:00–4:30 PM
<i>See descriptions beginning on page 17</i>	
Exhibit Hall Break	3:00–3:30 PM
Exhibit Hall Reception (4th Floor Exhibit Area)	4:30–6:30 PM

NEWEA's Committee Fair

Make the most of your membership by getting involved in one of NEWEA's committees. Put your passion and expertise to work while getting more exposure to networking opportunities by signing up for a volunteer committee!

Wednesday, January 24

NACWA's Utility Executive Roundtable & Breakfast..... 7:00 - 8:30 AM
Utilities Leaders Only. Register before January 10th.

Registration (4th Floor)..... 7:30 AM–2:00 PM

Exhibits (3rd and 4th Floor Exhibit Areas)..... 8:00 AM–1:00 PM

Technical Sessions 26–31 8:30–11:00 AM
See descriptions beginning on page 20

Exhibit Hall Break..... 9:30–10:00 AM

Exhibit Area Brunch 11:00 AM–1:00 PM
The exhibit area brunch will be held in both the 3rd and 4th floor exhibit areas

NEWEA Awards Ceremony and Lunch (ticket required)..... 11:00 AM–1:00 PM

Technical Sessions 32–37 1:00–3:00 PM
See descriptions beginning on page 23

Adjourn..... 3:00 PM

TRAINING CONTACT HOURS

This program has been submitted and is pending approval from all six New England states for Training Contact Hours (TCHs).

2024 Annual Conference & Exhibit Health and Safety Guidelines

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NEWEA's main priority is the health and safety of our attendees, exhibitors, volunteers, and staff. NEWEA will adhere to all official government and local authority guidance, as well as any venue or location-specific regulations. We will continue to monitor the evolving situation related to COVID-19 and all other epidemics, pandemics, and other public health situations and will update our strategy and guidelines below as needed.

As of August 18, 2023, the following guidelines should be followed at all NEWEA conferences and events:

1. All conference/event participants must sign the Attendee Terms and Conditions during registration.
2. Masks are optional. NEWEA will adhere to any masking mandates that are put in place by the venue and/or local, state, and/or federal government.
3. NEWEA recommends staying up-to-date with vaccinations.
4. Individuals who test positive for COVID-19 within 5 days of a conference/event and/or who are experiencing any cold/flu-like symptoms including but not limited to cough, fever, and/or sore throat should not attend.

Despite the protocols above, there is still an inherent risk of exposure to illness in any public place where people are present. By voluntarily choosing to attend NEWEA's conferences and events, participants assume all risks associated with exposure to illness.

NEWEA will continue to update these guidelines as needed. Please contact the NEWEA Office with any questions.

Monday
11:00 AM–Noon

Moderator:
Maureen Neville
NEWEA Program Chair
Woodard & Curran



Dr. Jonathan Gruber

Opening Session

Welcome:

Robert Fischer, NEWEA President
City of South Burlington, VT

Keynote Speaker:

**Dr. Jonathan Gruber, Ford Professor of Economics
and the Chairman of the Economics Department,
Massachusetts Institute of Technology**

Dr. Jonathan Gruber is the Ford Professor of Economics and the Chairman of the Economics Department at the Massachusetts Institute of Technology, where he has taught since 1992. He is also the former Director of the Health Care Program at the National Bureau of Economic Research, and the former President of the American Society of Health Economists. He is a member of the Institute of Medicine, the American Academy of Arts and Sciences, the National Academy of Social Insurance, and the Econometric Society. He has published more than 180 research articles, has edited six research volumes, and is the author of *Public Finance and Public Policy*, a leading undergraduate text in its 7th edition, *Health Care Reform*, a graphic novel, and *Jump-Starting America: How Breakthrough Science Can Revive Economic Growth and the American Dream* (with Simon Johnson). In 2006 he received the American Society of Health Economists Inaugural Medal for the best health economist in the nation aged 40 and under.

During the 1997-1998 academic year, Dr. Gruber was on leave as Deputy Assistant Secretary for Economic Policy at the Treasury Department. From 2003-2006 he was a key architect of Massachusetts' ambitious health reform effort, and in 2006 became an inaugural member of the Health Connector Board, the main implementing body for that effort. During 2009-2010 he served as a technical consultant to the Obama Administration and worked with both the Administration and Congress to help craft the Patient Protection and Affordable Care Act. In 2011 he was named "One of the Top 25 Most Innovative and Practical Thinkers of Our Time" by *Slate Magazine*. In both 2006 and 2012 he was rated as one of the top 100 most powerful people in health care in the United States by *Modern Healthcare Magazine*. In 2020 he received a Guggenheim Fellowship.

Tuesday
11:00 AM–12:30 PM

Plenary Session: Clean Water 50th Anniversary– The Next 50 Years: Communications, Climate, Innovation and Investment

.....

Last year, we commemorated the 50th anniversary of the Clean Water Act and highlighted the significant improvements to our water environment during this last half a century.

Now, we are looking ahead to consider the future of the Clean Water Act and our industry and how we can work together from a One Water perspective to ensure the sustainability of our water resources. One Water is an approach to water management that handles all water, regardless of its source, in a collaborative, integrated, inclusive, and holistic manner.

Current and emerging challenges are threatening our water environment and industry, including a critical need for infrastructure investment, emerging contaminants, and climate change. New technologies, ideas, and approaches are needed to address these issues and preserve our access to clean water. Additionally, collaborative efforts among the various sectors of our industry are important to ensure our water resources are managed effectively.

The first half of this session will feature a panel of experts discussing funding; environmental stewardship and planning; public outreach/awareness; and partnerships. Through a guided conversation, as well as audience questions, we will dig into the issues that matter most to clean water professionals to inform, inspire, and explore the future of the Clean Water Act and the water industry.

Following this panel, the second portion of the session will be pitches from leading innovators on the technologies they are developing as potential solutions to these challenges facing our industry.

Panelists:

Janine Burke-Wells, NEBRA

John Livsey, Town of Lexington, MA

Tom Sgroi, Greater New Haven WPCA

Brian Tarbuck, Greater Augusta Utility District

Gretchen Young, City of Rochester, NH

Monday
8:30–10:30 AM

Technical Sessions 1–6

Session 1

Government Affairs 1: Regulatory Actions

Moderators:

Jeff McBurnie,
Casella Resource Solutions
Jeff LeMay,
Town of South Windsor, CT

Protecting the Unseen Assets: The Addition of Cybersecurity to Rhode Island State Regulations
Jack Segal, RIDEM

A Proven Regulatory Strategy for Nutrient Removal at WRRFs
Grant Weaver, Grant Tech

The Impact of PFAS on Water Reclamation Facilities; Current Regulatory Trends and How to Prepare
Eric Spargimino, CDM Smith

A Tale of Two States: Clean Watershed Needs Survey Lessons Learned and How to Tackle the 2026 Survey
Tyler Feeney, Woodard & Curran
Sean McCormick, RIDEM

Session 2

Plant Operations 1: Flowing with Creativity – Unique Approaches to Facility Upgrades

Moderators:

Jim Li, AECOM
Patty Chesebrough,
NEIWPCC

It Takes a Village: Collaborative Low-Flow Start-Up of Orleans's Greenfield WWTF
Amy Hunter, AECOM
Edwin McAuliffe, Veolia

MBR Released from Prison: Using Creativity & Fundamentals to Achieve Stringent Nutrient Removal and Improve Process Resiliency at a Prison WWTF

Joseph Zaleski, Woodard & Curran
Aaron Brennan, Woodard & Curran
Krista Forti, Woodard & Curran

Design Bid Build and Design Build in the Same Project

Brian Messner, Wright-Pierce
Dan Finan, Veolia
Jake Fleming, City of Leominster, MA

Grit Removal Design for High Flows, Limited Head Loss and High Efficiency Capture at Springfield, MA Regional Wastewater Treatment Facility

Jose Infante Corona, Kleinfelder
Hannah Kominske, Kleinfelder
Matthew Nolen-Parkhouse, Veolia
Steven Frederick, BWSC

Monday
8:30–10:30 AM

Technical Sessions 1–6

Session 3

Collection Systems 1: Pump up the Waste

Moderators:

Scott Lander, Retain-it
Allison Shivers,
Tata & Howard

The Public and Private Challenges of a Low Pressure Sewer Construction

Kevin Garvey, Wright-Pierce
Peter Rice, City of Portsmouth, NH
Zachary Cronin, City of Portsmouth, NH

What's Not Resiliency? How Diverse and Creative Approaches Improved Pump Station Resiliency in Edgartown, MA

Samuel Taugher, Tighe & Bond
Austin Weidner, Tighe & Bond

Abington Pump Station Force Main: Replacing a Critical Asset

Jill Rossini, Kleinfelder

Tackle the Wipes Apocalypse – Safeguarding Your Sewage System

Joseph Clark, JWC Environmental

Session 4

Stormwater 1: Application – Advancing Program Funding and Implementation

Moderators:

Cindy Baumann, CDM Smith
Maria Rose,
Town of Brookline, MA

Strategies and Conceptual Designs for Adaptation and Coastal Stormwater Discharge in Boston

Ben Agrawal, Hazen and Sawyer
Charles Wilson, Hazen and Sawyer

Will the First City in New Hampshire Adopt the First Stormwater Fee?

Kelly Westover, Stantec
Bill Arcieri, VHB
David Hyder, Stantec
Gretchen Young, City of Rochester, NH

California Dreaming: What New England Can Learn from LA's Safe, Clean Water Program

Ross Tsantoulis, Woodard & Curran
Hector Bordas, Woodard & Curran

Stormwater Management Technical Assistance & Project Funding – A Collaborative Approach

Kimberly Koriotoh, Rhode Island Infrastructure Bank
William Guenther, Fuss & O'Neill

Monday
8:30–10:30 AM

Technical Sessions 1–6

Session 5

**Contaminants of
Emerging Concern 1:
Capture, Concentrating,
and Destruction
Developments**

Moderators:

Laura Marcolini,
Fuss & O'Neill
Shane Hancox,
University of Massachusetts

Destruction of PFAS in High Strength Wastes

Elisabeth Christ, Aclarity
Anil Krosuri, Aclarity

Multifunctional Zwitterionic Hydrogels as a Platform for the Rapid and Simultaneous Elimination of Organic and Inorganic Micropollutants from Water

Devashish Gokhale, Massachusetts Institute of
Technology

Andre Hamelberg, Massachusetts Institute of
Technology

Patrick Doyle, Massachusetts Institute of Technology

Enhancing PFAS Treatment in Water: Insights from Bench-Scale Treatability Studies Using Traditional and Novel Adsorbents

Francisco Barajas, AECOM

PFAS Treatment of Complex Wastewaters with Foam Fractionation Utilizing Air and Ozone Gases

Baxter Miatke, Arcadis

Session 6

**Young Professionals 1:
The Future of our
Industry**

Moderators:

Meghan Otis, Wright-Pierce
Zach Lamoureux,
Carlsen Systems

Your Future Leaders Are Here: How to Engage and Develop Young Professionals

Hannah Schulz, Woodard & Curran

Tyler Feeney, Woodard & Curran

Funding the Future of Arcadis

Kevin Toth, Arcadis

Ana Baez Gotay, Arcadis

Andy Elderbrock, Arcadis

Tyler Miller, Arcadis

Enhancing Mentorship Through Digital Networking

Amber Foote, AECOM

Kate Schassler, AECOM

Empowering the Future: Engineering in a Small Water Company

Ryan Flood, Aquamatrix by Water Analytics

Monday
2:00–4:30 PM

Technical Sessions 7–13

Session 7

Government Affairs 2: Regulatory Roundtable

Moderators:

Jeff McBurnie,
Casella Resource Solutions
Adam Yanulis, Tighe & Bond

There are many challenges facing the six states that make up the New England region. The intention of the Regulatory Roundtable Session is to allow for discussion of common issues/solutions and to facilitate the exchange of information.

Panelists from all six states will present.

Session 8

DEI: Strengthening Your Company Culture, Mindset and Project Success Through Effective Equitable Practices and Social Vulnerability Tools

Moderators:

Jesse Locke, Tighe & Bond
Bill Russo, Automatech

Diversity, Equity and Inclusion – Establishing the Baseline

Bill Stierle, Subtext Solutions

Equity in Climate Resilience: A Survey of Progress in Greater Boston Municipalities

Stefani Harrison, Stantec
Kalila Barnett, Barr Foundation

Making Sense of Social Vulnerability Indices and Tools

Nicholas Mitch, Arcadis

Exhibit Hall Break

3:00–3:30 PM

Monday
2:00–4:30 PM

Technical Sessions 7–13

Session 9

**Collection Systems 2:
When the Going Get
Tough, Tough Engineers
Get Going**

Moderator:

Peter Garvey, Dewberry
Kara Keleher,
Weston & Sampson

Targeting Pipes From a Sea of Data: Scheduling Inspections, Cleanings and Rehabilitation in Waterbury, CT

Courtney Kennedy, Jacobs Engineering
Karina Massey, Jacobs Engineering

Your Key to Tackling I/I: A Well Engineered Annual Inspection Program

Kin Wong, Weston & Sampson

Supply Chain Problems – They’re Everywhere: Case Study in Engineering, Procurement and Construction Management as an Alternative Project Delivery Method

Douglas Brisee, Fuss & O’Neill

The Hydrogen Sulfide Beast from Below: A Reactive, Responsive, and Proactive Need for Handling H₂S Before it Handles Us; A Sequence of Events That Led the Town of Ayer on a Journey to Discovering and Remediating a High-Risk Issue Within Their Wastewater Collection System

Cameron Jenkins, Arcadis
Daniel Van Schalkwyk, Town of Ayer, MA

Session 10

**CSO/Wet Weather Issues 1:
CSO Mitigation –
Implementation and
Construction Challenges**

Moderators:

Peter Frick, ADS
James Drake, CDM Smith

The Portland Back Cove West CSO Storage Conduit, Collaborating to Protect Our Water Resources

Ryan Wingard, Wright-Pierce
Steve Guerrette, Wright-Pierce

When Projects Collide: How the City of Haverhill Navigated Utility Coordination During Design of the Locke Street Area Sewer Separation

Matthew Corbin, Wright-Pierce

I Think I Can, I Think I Can. The Little Town that Could LTCP – Leverage the Coordination Potential!

Lindsey Sylvester, Wright-Pierce
Lisa Muscanell-DePaola, Wright-Pierce

Springfield Water and Sewer Commission: Building System Resiliency – Overcoming the Challenges of the Locust Transfer Construction

John Rahill, Kleinfelder
Dave Szymczakiewicz, SWSC
Jonas Jacques, Kleinfelder

Exhibit Hall Break

3:00–3:30 PM

Monday
2:00–4:30 PM

Technical Sessions 7–13

Session 11

Residuals and Biosolids 1: PFAS Removal and Destruction in Biosolids

Moderators:

Justin Motta, Stantec
Scott Firmin,
Portland Water District

Technology Demonstration and Cost Analysis for PFAS Destruction in Biosolids

Micah Blate, Hazen and Sawyer

What Does Pyrolysis Do to PFAS in Biosolids? Distinguishing Removal from Transformation

Patrick McNamara, Black & Veatch

Hari Santha, Black & Veatch

Lynne Moss, Black & Veatch

Scott Carr, Black & Veatch

Sludge Paralysis meets Regional Pyrolysis

Jarod Stuyvesant, Weston & Sampson

Ultra-High Temperature Gasification for Biosolids Treatment, PFAS Destruction, & Hydrogen Production

Jim Henderson, Heartland Water Technology

Session 12

Watershed Management 1: Innovative Tools for Quantitative Resilience Planning at Watershed Scale

Moderators:

Andrea Braga, Jacobs
Julie Sullivan, MWRA

Building Climate Resilient Integrated Planning: Learning from Alameda County Water District's Cap Approach

Tess Sprague, Brown and Caldwell

Innovation in the Field – Using Geospatial Video to Enhance Data Collection

Stephanie Hanses, Brown and Caldwell

Ecosystem-based Integrated Watershed Resource Management in Today's Social Ecological System Context – A "One Water" Connecticut Example

Paul Stacey, Footprints In The Water

Building Resilience Through Watershed Planning in New London, CT

Kathryn Edwards, Arcadis

Nicholas Mitch, Arcadis

Exhibit Hall Break

3:00–3:30 PM

Monday
2:00-4:30 PM

Technical Sessions 7–13

Session 13

Young Professionals 2: Workshop on Centrifugal Pumping Systems 101 – Fundamentals for Design

Moderators:

Nick Tooker,
University of Massachusetts
Daryl Coppola,
FR Mahony

This is a 2-hour interactive workshop. Attendees will actively participate in the session. The first hour of the session will include an overview of system curves, pump curves, and related calculations for centrifugal pumping systems. The second hour will start with a discussion of practical applications of centrifugal pump design, followed by a guided tour of the Exhibit Hall. Attendees will be divided into groups and taken to vendor booths to view the latest pump models, look at literature (including pump curves), and ask questions.

Panelists:

Todd Brown, University of Hartford
Ryan Buckley, NEIWPCC
Daryl Coppola, FR Mahony
Emily Korot, CDM Smith
Kitty Lovell, Woodard & Curran
Colin O'Brien, Brown and Caldwell
Jaimie Payne, Bartlett & West
Nick Tooker, University of Massachusetts

This workshop is being provided at no extra cost but space is limited. Pre-registration is required.

Exhibit Hall Break
3:00–3:30 PM

Tuesday
8:30–11:00 AM

Technical Sessions 14–19

Session 14 Plant Operations 2: The BNR Controls & Instrumentation Selection Adventure

Moderators:

Victoria Helle, NEIWPCC
Denise Descheneau,
Upper Blackstone Clean
Water

This session will be interactive and engaging, featuring a facilitated panel discussion with representatives from participating utilities in a recently-completed Water Research Foundation Project. The project focused on instrument-based controls for biological nutrient removal systems. The utility representatives will share their experiences with implementation and operation of sensor-based controls for BNR, including performance, O&M, and costs. Project leaders will share the evaluation tools developed for utilities, operators, and engineers.

Panelists:

Jacob Fortin, Woodard & Curran
Allie Greenfield, Woodard & Curran
Sue Guswa, Woodard & Curran
Maureen Neville, Woodard & Curran
Nick Tooker, University of Massachusetts

Session 15 Government Affairs 3: Infrastructure Funding

Moderators:

Jeff McBurnie,
Casella Resource Solutions
Peter Garvey, Dewberry

US EPA's SRF team will present on the Bipartisan Infrastructure Law (IIJA) and its opportunities and implementation for the State Revolving Fund. Topics will include but are not limited to financing, eligibility, and the similarities and differences between the domestic preference requirements, specifically the American Iron and Steel requirement (AIS) and the Build America, Buy America Act (BABA). The presentation will also include a Q&A period.

Panelists:

Leslie Corcelli, EPA Office of Wastewater Management
Forrest Petrich, EPA Office of Wastewater Management
Kelly Tucker, EPA Office of Wastewater Management

Exhibit Hall Break
9:30–10:00AM

Tuesday
8:30–11:00 AM

Technical Sessions 14–19

Session 16

Collection Systems 3: Be a Smooth Operator

Moderators:

Ryan Wingard,
Wright-Pierce

Jim Barsanti,
Hazen and Sawyer

Clean Smarter, Not Harder: Wastewater Collection System O&M Optimization

Jacob Mueller, HDR

One Water, One Collection System: Sustainable Design

Vaughan Harshman, V&A Consulting Engineers
Chris Hunniford, V&A Consulting Engineers

The Dollars and Sense of Adopting Optimized Cleaning Processes Leveraging Smart Technology

Jay Boyd, ADS

Step by Step: A Data Collection and Planning Approach for Addressing Sewer Collection System Improvements through the Plymouth CMOM Program

Andrew Grota, Environmental Partners
Douglas Pinard, Town of Plymouth, MA
Ziad Kary, Environmental Partners

Session 17

Stormwater 2: Tools – Expanding your Stormwater Toolbox

Moderators:

Eric Kelley,
Environmental Partners
Scott Lander, Retain-It

Southern New England Program Retrofit Manual

James Houle, University of New Hampshire
Nate Pacheco, VHB

Catchment Investigations: Best Tools for the Job?

Elizabeth Olson, SDE

Moving Towards Regional Consistency – EPA BMP Performance Curves

Theresa McGovern, VHB

Tracking Changes in Land Use in the Charles River Watershed

Max Rome, Charles River Watershed Association

Exhibit Hall Break

9:30–10:00 AM

Tuesday
8:30–11:00 AM

Technical Sessions 14–19

Session 18

Contaminants of
Emerging Concern 2:
Mitigating, Managing,
and Minimizing PFAS

Moderators:

Amy Hunter, AECOM
Jack Segal, RIDEM

**Mitigating PFAS Transport Within Water
Reclamation Facilities**

Christopher Curran, AECOM

**Managing PFAS in Industrial Stormwater to Protect
Groundwater Quality**

Russell Parkman, Ramboll

**PFAS Trinity: Understanding Your Community's
PFAS Chemistry, Developing Minimization Plans,
and Working with Upstream Sources**

Paul Calamita, AquaLaw

**PFAS in Biosolids: How to Be Part of
the Conversation**

Janine Burke-Wells, NEBRA

Deborah Mahoney, Brown and Caldwell

Session 19

Small Communities

Moderators:

Brandon Blanchard,
Pare Corporation

Chris Hayward,
Pare Corporation

**Challenges Faced by Small and Rural Utilities
Participating in Wastewater-Based Disease
Surveillance Programs**

Anna Mehrotra, WEF

**Towards More Economical Water Treatment:
The Development of Robust and Low Cost
Electrodes for On-Site Chlorine Generation**

Shane Hancox, University of Massachusetts

**Balancing Pilot and Traditional Strategies in Oak
Bluffs Integrated Approach to Nitrogen Management**

Anastasia Rudenko, GHD

Sara Greenberg, GHD

**Innovative Wastewater Treatment Technology
for Advanced Nutrient Removal with a Focus on
Seasonal Operations Optimization**

Patrick Compton, FR Mahony

Exhibit Hall Break

9:30–10:00 AM

Tuesday
2:00–4:30 PM

Technical Sessions 20–25

Session 20

Residuals and Biosolids 2: Biosolids Management Risks and Regionalization Solutions

Moderators:

Vanessa Borkowski, Stantec
Eric Spargimino, CDM Smith

This session will address the drivers and progress with respect to biosolids regionalization within New England via a panel discussion about current programs, regulatory insights, and technical advancements. Current program discussions will tap local Water Resource Recovery Facility managers to understand where their greatest hurdles exist when pursuing these types of projects. It will also discuss other regions that have been successful in implementing biosolids regionalization facilities. This session will also provide context for the types of regulations that encourage and hinder biosolids regionalization from the utility manager's perspective. The final component of the session will cover technological advancements by acknowledging the various processes, maturity, and scalability. This session is intended to be an interactive session.

Session 21

Plant Operations 3: Data-Driven Phosphorus Removal

Moderators:

Varun Srinivasan, Trinnex
Allie Greenfield,
Woodard & Curran

Lessons in Visualizing Data and Utilizing Hybrid Modeling to Improve Operational Stability and Performance with Stringent Phosphorus Limits

Patrick Dunlap, Black & Veatch
Brian Shoener, Black & Veatch
Cody Schoepke, City of Fond du Lac, WI
Leon Downing, Black & Veatch

Troubleshooting Loss of Efficiency in Chemical Phosphorus Removal and Planning for Future Growth

Laura Marcolini, Fuss & O'Neill

Optimizing Phosphorus Removal with Minimal Modifications: A Little Data Goes a Long Way

Amy Decola, Hoyle Tanner
Matthew Scarborough, Hoyle Tanner

Optimizing Phosphorus Removal to Mitigate New Aluminum Discharge Limits at the Waterbury, CT WPCF

Thomas Johnson, Jacobs

Exhibit Hall Break
3:00–3:30 PM

Tuesday
2:00–4:30 PM

Technical Sessions 20–25

Session 22

CSO/Wet Weather Issues 2: Innovations in CSO Pilot Testing and Modeling

Moderators:

Keith Gardner, Stantec
Josh Schimmel,
Springfield Water and
Sewer Commission

Novel Application of a Biological High-Rate Treatment to Address Wet Weather Needs

Christopher Curran, AECOM
Greg Heath, AECOM

Tight Site, No Problem – A Primary Filtration Pilot Study in Bridgeport, CT

Daniel Thompson, CDM Smith
Allison Zanette, CDM Smith

Hartford MDC’s Clean Water Project: Two Decades of Collection System Improvements Informed by Hydraulic Modeling

Ajay Prasad, CDM Smith
Jason Waterbury, The MDC

Weighing The Options: An Overview Of Wet Weather Treatment Technologies

Mary Penny, Arcadis

Session 23

Watershed Management 2: Pivotal Studies and Projects in Integrated Nutrient Management

Moderators:

Sarah NaIVEN, VHB
Janelle Bonn,
Woodard & Curran

Boxed In: Wastewater Effluent Discharge Challenges in a Coastal Environment

Julia Khrakovsky, GHD
Anastasia Rudenko, GHD

Development of a Robust Inventory and Nitrogen Load Estimation of Onsite Wastewater Treatment Systems to Long Island Sound

Zachary Eichenwald, CDM Smith

Watershed Planning, Partnerships and Public Education to Address Excessive Nutrients in a Mashpee Wampanoag Tribe Ancestral Pond

Kimberly Groff, SNEP

Lessons Learned from the Largest Watershed-Based Phosphorus Reduction Facility in the Country

Scott Shannon, Woodard & Curran

Exhibit Hall Break

3:00–3:30 PM

Tuesday
2:00–4:30 PM

Technical Sessions 20–25

Session 24

Public Awareness – Communicating for Collective Impact: Stakeholder Engagement Success Stories from New England

Moderators:

Emily Cole-Prescott,
City of Saco, ME

Katie Evans,
Woodard & Curran

Sruthi Kakuturu, Dewberry

So many of the challenges facing the clean water sector involve a lack of knowledge about the great work our water teams accomplish every day. Utilities across the country and world struggle to engage those outside the industry to build support for their work, change behavior, achieve collective goals, and attract the future workforce. To change this, utilities need to be clever and creative in their outreach programs while balancing costs with conflicting priorities and stretched budgets. This panel session will present communications initiatives undertaken by New England utilities, associations, and nonprofits.

Panelists:

Faye DeMoura, Wright-Pierce

Kristen Kelleher, City of Cambridge, MA

Rich Niles, Woodard & Curran

Don Sands, X-Cel Education Corps

Theresa Tucker, York Sewer District

Session 25

Energy: Energy Neutrality from the Local to National Stage

Moderators:

Tracy Chouinard,
Brown and Caldwell

Tom Schwartz,
Woodard & Curran

Optimizing Aeration System Design to Maximize Performance

Adam Clarke, Aerzen USA

Greg Duffy, Aerzen USA

The Future of Heat and Programs for Decarbonizing Wastewater Operations

Janine Burke-Wells, NEBRA

Michael McDonald, National Grid

Roadmap for Achieving Energy Neutrality: Planning and Funding Energy Resiliency Projects Without Compromising Water Quality

Elizabeth Watson Keddy, Hazen and Sawyer

Energy Concerns for Biosolids Thermal Processing? A Comparison of Pyrolysis, Gasification & Incineration using Real-World Applications is Revealing

Charles Winslow, GHD

Sara Greenberg, GHD

Exhibit Hall Break

3:00–3:30 PM

Wednesday
8:30–11:00 AM

Technical Sessions 26–31

Session 26

**Stormwater 3:
Design Solutions –
Helping Stormwater
Managers Sleep at Night**

Moderators:

Joe Keitner,
City of Westfield, MA
Brutus Cantoreggi,
Town of Franklin, MA

**Providence's Approach to Restoring Water Quality
in Roger Williams Park**

Brandon Blanchard, Pare Corporation
Brian Byrnes, City of Providence, RI
Ryan Kopp, Audubon Society of Rhode Island

**The Climate Change Climb – Preparing for Rising
Seas and Extreme Storms in Coastal Communities**

Dylan O'Donnell, Environmental Partners
Chris Dapson, Environmental Partners
Eric Kelley, Environmental Partners
Sarah Price, Environmental Partners

**Novel Floating Microbiological Reactor for Natural
Nitrogen Removal**

Ellie Sangree, Hamilton College
Jesse Wexler, Hamilton College

Session 27

**Plant Operations 4:
Process Intensification
& Optimization**

Moderators:

Emily Korot, CDM Smith
Nick Tooker,
University of Massachusetts

**Sludge Settleability Improvements Associated with
Densification of BNR Activated Sludge**

Eric Staunton, CDM Smith

**Using Granular Activated Sludge on a Small Site to
Upgrade Saco's WRRF For 50% Growth, Sea Level
Rise, CSO Reduction, and Nitrogen Removal**

Frederick Mueller, Tighe & Bond
Kyle Coolidge, Tighe & Bond

**ABAC Unleashed: A Full-Scale Demonstration of
Efficient Bnr Harnessing Internally Stored Carbon
Driven Snd and Post-Denitrification**

Pusker Regmi, Brown and Caldwell

**Creative Construction Adds Redundancy to Aging
Wastewater Treatment Plant**

Julianne Page, Woodard & Curran
Kayla Marquis, Woodard & Curran

Exhibit Hall Break

9:30–10:00 AM

Wednesday
8:30–11:00 AM

Technical Sessions 26–31

Session 28

**Collection Systems 4:
Looking to Unclog in All
the Tight Spaces**

Moderators:

Brad Hayes,
Woodard & Curran
Tom Loto, AECOM

Paradise Avenue Easement Sewer Improvements – Locating, Accessing, and Rehabilitating Major Interceptor Submerged in a Flood Control Water Impoundment

Sean Mitchell, Arcadis
Mario Riconzi, GNHWPCA
Sarah Wohlfahrt, Arcadis

Rehabilitating a 48-inch Brick Sewer Under a Mass Transit Right-of-Way

William Ditullio, Woodard & Curran
Chelsea Waite, Woodard & Curran

From Vision to Implementation, A Story of Much Needed Sewer Improvements in the Most Dense City in Massachusetts

Kevin Rafferty, Hazen and Sawyer
Charles Wilson, Hazen and Sawyer
Karla Cuarezma, Hazen and Sawyer

Risk Mitigation in Trenchless Rehabilitation Design & Construction

Charles Tripp, AECOM

Session 29

**Residuals and Biosolids 3:
Improving Biosolids for
a Circular Economy**

Moderators:

Vanessa Borkowski,
Stantec
Phil Tucker,
York Sewer District

Working Towards a Sustainable Outlet for Maine Biosolids Through a Regional Solution

Scott Firmin, Portland Sewer District
John Ross, Brown and Caldwell

Consistency is Key: Sludge Thickening for Operational and Treatment Advantages

Sarah Viola, Wright-Pierce
Sean Greig, Town of Newmarket, NH

Supercharging Anaerobic Digestion: Exploring a Suite of Intensification Strategies and Technologies

Baoqiang Li, Black & Veatch

Turning Waste Products into Premium Products

David Buurma, LaSalle Agri

Exhibit Hall Break

9:30–10:00 AM

Wednesday
8:30–11:00 AM

Technical Sessions 26–31

Session 30

**Industrial Wastewater:
Industrial Waste
Innovative Technologies
and Pretreatment
Coordination**

Moderators:

Michael Smith,
Weston & Sampson
Matthew Dickson,
Haley Ward

**Troubled Waters: Industrial Pretreatment and
Its Effects on Process Control**

Chelsey Little, Town of Montague, MA
Tim Little, Town of Montague, MA

**An Innovative Approach to Brewery Wastewater
Management, Side-streaming, and Pretreatment
Coordination**

Luke Truman, New England Environmental
Finance Center

**The Big One That Did Not Get Away: Pilot Testing
To Reach 12 µg TP/L in a Hatchery Effluent**

Ellie Tavasoli, HDR
Rebecca Elwood, HDR

**High Temperature Pyrolysis (HTP) Converts
Biosolids into Contaminant Free Biochar and
Renewable Energy**

Andrew Friedenthal, CHAR Technologies

Session 31

**Utility Management:
Workforce & Funding**

Moderators:

Jay Sheehan,
Woodard & Curran
Donald Gallucci,
Weston & Sampson

**Engaging the Next Generation of Water Leaders –
Stories from an Enterprise-Wide Mentoring Program**

Ben Mosher, CDM Smith

Why Are You Still Working Five Days Per Week?

Rob Pontau, Brunswick Sewer District

**Effective Funding and Finance Technical Assistance
Approaches: Perspectives from the New England
Environmental Finance Center**

Laura Collins, New England Environmental
Finance Center

Chloe Shields, New England Environmental
Finance Center

**Comprehensive Funding Strategy Development:
Creating A Plan and Executing It**

Trevor Johnson, Arcadis
Aaron Henderson, Arcadis
Katherine Duskin, Arcadis

Exhibit Hall Break

9:30–10:00 AM

Wednesday
1:00–3:00 PM

Technical Sessions 32–37

Session 32

Plant Operations 5: Biological Nutrient Removal Unconventional Upgrades

Moderators:

Adam Higgins, Wright-Pierce
Ben Levin,
Hazen and Sawyer

Need to Achieve Low Effluent Total Nitrogen? SBRs are Still a Great Choice

William McConnell, CDM Smith

Turning all the Dials – Using Multiple Control Parameters To Implement Low DO Operation to Reduce Energy Use and Optimize Nitrogen Removal

Paul Dombrowski, Woodard & Curran

Wash, Rinse and Repeat? Considerations for a Challenging Aeration Tank Rehabilitation

Erin Moore, Tighe & Bond
Mara Kilburn, The Precision Group
Tom Frankel, SSI Aeration

A Biological Phosphorus Removal Success Story in an Oxidation Ditch at the Town of Sunapee, NH POTW

John Adie, NHDES
Kenneth Kessler, NHDES
Richard Emberely, NHDES

Session 33

Stormwater 4: Next Steps in Addressing the Stormwater Nutrient Dilemma

Moderators:

Zach Henderson,
Woodard and Curran
Natalie Pommersheim,
Environmental Partners
Kate Edwards, Arcadis
Peter Varga, Kleinfelder

With new nutrient waste load allocations incorporated in the Environmental Protection Agency's Municipal Separate Stormwater Sewer System (MS4) Permit in Massachusetts and New Hampshire, the stage has been set for extensive and unprecedented stormwater-based nutrient reduction implementation strategies that will span the next several decades. For the Charles River watershed alone, it is anticipated that these requirements will cost upwards of \$1 billion to \$3 billion in green infrastructure and source control investments for the 35 municipalities within the watershed. This session is intended to build off outcomes from the one-day stormwater specialty conference in May 2023 and will focus on source control innovations and regional success stories. We also anticipate a regulatory update from EPA and DEP.

Panelists:

Liz Clark, MassDEP
Cece Gerstenbacher, Merrimack Valley Planning
Commission
James Houle, University of New Hampshire
Andy Hrycyna, Mystic River Watershed Association
Max Rome, Charles River Watershed Association
Newton Tedder, EPA
Waneta Trabert, City of Newton, MA
Marc Valenti, Town of Lexington, MA
Dan Walsh, WL French
Gretchen Young, City of Rochester, NH

Wednesday
1:00–3:00 PM

Technical Sessions 32–37

Session 34

**CSO/Wet Weather
Issues 3:
CSO Notification and
Compliance Hurdles**

Moderators:

Erika Casarano, AECOM
Lin Liang, Stantec

Lowell's Experience with CSO/SSO Notification Rules
Cliff Hall, Lowell Regional Wastewater Utility

**A Practical Sewer Network Digital Twin:
It is not a PIPE dream!**
Varun Srinivasan, Trinnex

**Programming Tools to Understand and
Communicate Receiving Water Quality
Model Results**

Karilyn Heisen, CDM Smith
Kathryn Swanson, CDM Smith
Kimberly Hetrick, CDM Smith
Michael Lichte, Alcosan
Sam Shamsi, Alcosan

Pitfalls Of Cso Public Notification
Mike Armes, ADS

Session 35

**Water Reuse: Recovering
Our Resources Through
Innovative Water Reuse
Applications**

Moderators:

Nicholas Ellis,
Hazen and Sawyer
Meredith Zona, Stantec

**Potable Reuse: How Southeastern MA Can Take a
Page from the Southwest's Playbook**
Sara Greenberg, GHD

**Quantification of Greenhouse Gas Emissions in
RO and Carbon-Based Potable Reuse Treatment
Configurations**
Brett Wagner, AECOM

**The Evolution of Membrane Bioreactors in
North America**
Anthony Zamarro, CDM Smith

Regulatory Trends in Water Reuse
Dennis Greene, NHDES
Marybeth Chubb, MassDEP

Wednesday
1:00–3:00 PM

Technical Sessions 32–37

Session 36

**Sustainability:
Harnessing the Triple
Bottom Line for Water
and Wastewater
Operations**

Moderators:

Maeve Carlson,
Wright-Pierce
Wayne Bates,
Tighe & Bond

**Utilizing WRRFs as Community Anchors to Achieve
Circular Economy Goals**

Anastasia Rudenko, GHD
Jay Surti, GHD

**GHG Accounting and Target-Setting for
Water Utilities**

Molly Keleher, JKMuir

**Maintenance Challenges Provide an Opportunity
for Pragmatic Green Infrastructure Design
Improvements**

George Papasmiris, NYC DEP

**With Great Carbon, Comes Great Responsibility:
Measuring and Mitigating Climate Impacts from
Biosolids and Other Wastewater Operations**

Janine Burke-Wells, NEBRA

Session 37

Asset Management

Moderators:

Peter von Zweck, Jacobs
Eliza Styczynski,
Brown and Caldwell

**Modernizing the Municipality: Smart Compliance
Reporting with GIS & Asset Management Technology**

Rachel Osborn, Woodard & Curran
Paul Costello, City of Quincy, MA
Rich Niles, Woodard & Curran
Stephen Washburn, City of Quincy, MA

**A Decade of Asset Management at the
South Essex Sewerage District**

David Michaelsen, City of Salem, MA
Bob Lawrence, Jacobs
Erik Nowak, SESD
Francisco Mago, SESD
Jonathan Coddington, SESD

**Stormwater Tracking and Accounting:
A Regional Success Story**

Renee Bourdeau, Geosyntec Consultants

**Replace, Renew, Sustain: Asset Management Case
Studies in Maximizing LoS**

Daniel Roop, Tighe & Bond
Trisha Worthington, Tighe & Bond
Valerie Flaherty, Town of North Attleborough, MA

Student Poster Competition/ Now Accepting Abstracts

Undergraduate and graduate students participating in research or a class project on water pollution control, water quality, hazardous waste, or other environmental engineering topics are invited to submit an abstract for NEWEA's 2024 Student Poster Competition.

STUDENT POSTER COMPETITION

NEWEA's Student Activities Committee will be hosting a Poster Competition on Monday, January 22 from 9:00 AM – 2:30 PM, with a dedicated time for presenters to meet with judges. Cash Prizes will be awarded for best graduate and undergraduate posters.

Submit an abstract online to be considered to participate in the Student Poster Competition: <https://annualconference.newea.org/program/student-activities/student-poster-form/>

All submissions are due by December 15, 2023.

Tuesday
8:00 AM–4:30 PM

3rd Floor Exhibit Hall Arlington Room



Early and growth stage companies with innovative solutions for the water industry are invited to apply for the opportunity to share their innovations at the Pavilion. One Innovation Pavilion exhibit space and two complimentary registrations will be provided to each selected company.

Apply to Exhibit at the following link:
<https://annualconference.newea.org/innovation-pavilion-exhibit/>

NEWEA's Innovation Council Innovation Pavilion

NEWEA's Innovation Council is excited to announce the 6th annual Water Innovation Pavilion, taking place on Tuesday, January 23 during the 2024 NEWEA Annual Conference and Exhibit. This year's theme is ONE Water defined by the Water Research Foundation as an "integrated planning and implementation approach to managing finite water resources for long-term resilience and reliability, meeting not only the economic needs but also community and ecosystem needs."

The Innovation Pavilion's full-day program will feature Innovator exhibits, a Plenary discussion looking at the current ONE Water challenges faced by utilities and those over the next 50 years, pitches from innovators who are developing technologies to address the topics covered during the plenary session, and more.

NEWEA's Innovation Council provides a platform for those sharing a common passion to bring solutions to market to come together to address challenges and opportunities in water innovations. Members represent all sectors of the water community including utilities, service providers, consultants, manufacturers, water users, regulators, investors, and researchers both domestically and globally.

Drawing inspiration from the WEFTEC Innovation Pavilion, the goal of NEWEA's Water Innovation Pavilion is to provide a forum for sharing new ideas, enable innovators and researchers to get input from people on the front lines of providing clean water, and create enduring connections to drive innovation in our region. The proximity of so many cities, utilities, industries, businesses, universities, and innovators who are passionate about water makes New England a desirable innovation hub in the United States.

Thank you to our Water Innovation Partners:
Watts Water & Evoqua Water Technologies

Monday
8:00–8:30 AM

Annual Business Meeting

Respectfully submitted on
September 8, 2023, by
the NEWEA Nominating
Committee:

Jennifer Kelly Lachmayr,
Chair

Eddie Davies

Marina Fernandes

Virgil Lloyd

Frederick McNeill

All nominees have
indicated their willingness
to serve.

By vote of the Nominating Committee, I submit the following nominations in accordance with Article 9.3.1 of the NEWEA Constitution and Bylaws to the Executive Committee, for approval to place the slate of officers before the membership at the NEWEA Annual Business Meeting on January 22, 2024:

- Vice President – **Scott Firmin**
- Deputy Treasurer – **Arthur Simonian**
- WEF Delegate – **Emily Cole-Prescott**
- Council Director – Communications – **Philip Tucker**
- Council Director – Meeting Management – **Scott Neesen**
- Council Director – Outreach – **Daryl Coppola**
- Rhode Island Director – **Amy Anderson George**
- Vermont Director – **Jennie Auster**

In accordance with the provisions of Article 9.3.2 of the NEWEA Constitution & Bylaws, these Officers will advance to the following positions:

- President – **Scott Goodinson**
- President-Elect – **Deborah Mahoney**
- Past President – **Robert Fischer**

The remaining incumbents are fulfilling unexpired terms:

- Treasurer – **David Van Hoven** (3rd year)
- WEF Delegate – **Raymond Vermette** (through WEFTEC 2024)
- WEF Delegate – **Janine Burke-Wells** (through WEFTEC 2025)
- WEF Delegate – **Virgil Lloyd** (through WEFTEC 2026)
- Council Director: Collection Systems/Water Resources – **Scott Lander** (2nd year)
- Council Director: Innovation – **Michael Murphy** (2nd year)
- Council Director: Treatment Systems Operations & Management – **Marina Fernandes** (3rd year)
- Connecticut Director – **Vanessa McPherson** (2nd year)
- Maine Director – **Paula Drouin** (3rd year)
- Massachusetts Director – **John Digiacomio** (2nd year)
- New Hampshire – **Michael Trainque** (3rd Year)

Sunday
9:00 AM–5:00 PM

Young Professionals Summit

*This event is intended for professionals who have less than five years of experience in the industry and are younger than 35 years old

The YP Summit Meme Contest is back! The YP Committee invites attendees to create and submit water-related memes to participate in this contest. All submissions will be shared on the overhead screen during the event and attendees will vote on their favorite. Send your memes to EMAIL: jplummer@neiwppcc.org

The Young Professionals (YP) Committee is excited to announce the return of the annual YP Summit.* The YP Summit brings together young and emerging professionals in the water and wastewater industry to learn from industry leaders and network with peers from across New England.

The Committee has drafted an engaging program of panels, presentations, and networking sessions to help young professionals strengthen their leadership and technical skills and advance their water industry careers.

This year's program will focus on One Water, a holistic and collaborative approach to water management. NEWEA's Young Professionals Chair, Daryl Coppola, will kick off the program with opening remarks, followed by an "Intro to Networking" session. The keynote session will begin with an overview of and introduction to the One Water concept, followed by presentations from experts working in the drinking water, stormwater, and clean water sectors.

After lunch, attendees will hear from two panels consisting of professionals from across the water industry. The first panel will feature operators who work in both drinking water and clean water and will focus on water system operations. The second panel will feature professionals representing a variety of career paths within the water industry and will center on providing advice to YPs on navigating their own career paths. The afternoon portion of the program will also recognize graduating mentors and mentees from our 2023 Mentoring Program and feature the return of the always-popular Meme Contest. The Summit will wrap up with closing remarks from NEWEA and NEWWA's presidents.

Following the completion of the program, attendees are invited to enjoy a reception, which will be attended by experienced water industry professionals and members of NEWEA and NEWWA's Executive Committees.

**NOTE: This event requires separate registration from the Annual Conference. Morning coffee/pastries and Lunch are included in registration.*

Hotel Information

Check-out time is Noon

Guest rooms will be available after 4:00 PM.

All rooms subject to 16.45% tax (subject to change).

Reservations must be made before **Wednesday, December 27** to ensure availability of accommodations and the special group rate.

Hotel and Room Reservation Information

Boston Marriott Copley Place Hotel
110 Huntington Avenue, Boston, MA 02116
617-236-5800

Rates: SINGLE—\$214, DOUBLE—\$234

For Reservations, call the Marriott at 617-236-5800 or 1-877-901-2079 (worldwide reservations). Please refer to the New England Water Environment Association to receive the group rate.

Reservations may also be made online at:

<https://book.passkey.com/event/50598846/owner/249/home>

Registration Deadline is Wednesday, December 27.



Presenters

PRESENTER	AFFILIATION	SESSION NO.
John Adie	NHDES	32
Ben Agrawal	Hazen and Sawyer.....	4
Bill Arcieri	VHB.....	4
Mike Armes	ADS.....	34
Ana Baez Gotay.....	Arcadis	6
Francisco Barajas.....	AECOM.....	5
Kalila Barnett.....	Barr Foundation.....	8
Brandon Blanchard.....	Pare Corporation.....	26
Micah Blate	Hazen and Sawyer.....	11
Hector Bordas.....	Woodard & Curran.....	4
Renee Bourdeau	Geosyntec Consultants	37
Jay Boyd	ADS	16
Aaron Brennan.....	Woodard & Curran.....	2
Douglas Brisee.....	Fuss & O'Neill.....	9
Todd Brown.....	University of Hartford.....	13
Ryan Buckley.....	NEIWPCC	13
Janine Burke-Wells	NEBRA.....	18, 25, 36
David Buurma.....	LaSalle Agri.....	29
Brian Byrnes	City of Providence, RI.....	26
Paul Calamita.....	AquaLaw.....	18
Scott Carr.....	Black & Veatch.....	11
Elisabeth Christ	Aclarity	5
Marybeth Chubb.....	MassDEP	35
Joseph Clark.....	JWC Environmental	3
Liz Clark	MassDEP	33
Adam Clarke.....	Aerzen.....	25
Jonathan Coddington	SESD.....	37
Laura Collins.....	NEEFC.....	31
Patrick Compton.....	FR Mahony.....	19
Kyle Coolidge	Tighe & Bond	27
Daryl Coppola	FR Mahony.....	13
Matthew Corbin	Wright-Pierce.....	10
Leslie Corcelli	EPA	15
Paul Costello.....	City of Quincy, MA	37
Zachary Cronin.....	City of Portsmouth, NH.....	3
Karla Cuarezma.....	Hazen and Sawyer.....	28
Christopher Curran	AECOM.....	18, 22
Chris Dapson.....	Environmental Partners	26
Amy Decola.....	Hoyle Tanner	21
Faye DeMoura.....	Wright-Pierce.....	24
William Ditullio.....	Woodard & Curran.....	28
Paul Dombrowski	Woodard & Curran.....	32
Leon Downing.....	Black & Veatch.....	21

PRESENTER	AFFILIATION	SESSION NO.
Patrick Doyle.....	Massachusetts Institute of Technology	5
Greg Duffy.....	Aerzen.....	25
Patrick Dunlap.....	Black & Veatch.....	21
Katherine Duskin.....	Arcadis.....	31
Kathryn Edwards.....	Arcadis.....	12
Zachary Eichenwald.....	CDM Smith.....	23
Andy Elderbrock.....	Arcadis.....	6
Rebecca Elwood.....	HDR.....	30
Richard Emberely.....	NHDES.....	32
Tyler Feeney.....	Woodard & Curran.....	1, 6
Dan Finan.....	Veolia.....	2
Scott Firmin.....	Portland Water District	29
Valerie Flaherty.....	Town of North Attleborough, MA.....	37
Jake Fleming.....	City of Leominster, MA.....	2
Ryan Flood.....	Aquametrix.....	6
Amber Foote.....	AECOM.....	6
Jacob Fortin.....	Woodard & Curran.....	14
Tom Frankel.....	SSI Aeration.....	32
Steven Frederick.....	BWSC.....	2
Andrew Friedenthal.....	CHAR Technologies.....	30
Kevin Garvey.....	Wright-Pierce.....	3
Cece Gerstenbacher.....	Merrimack Valley Planning Commission.....	33
Devashish Gokhale.....	Massachusetts Institute of Technology	5
Dennis Greene.....	NHDES.....	35
Sara Greenberg.....	GHD.....	19, 25, 35
Allie Greenfield.....	Woodard & Curran.....	14
Sean Greig.....	Town of Newmarket, NH.....	29
Kimberly Groff.....	SNEP.....	23
Andrew Grota.....	Environmental Partners.....	16
William Guenther.....	Fuss & O'Neill.....	4
Steve Guerrette.....	Wright-Pierce.....	10
Sue Guswa.....	Woodard & Curran.....	14
Cliff Hall.....	Lowell Regional Wastewater Utility.....	34
Andre Hamelberg.....	Massachusetts Institute of Technology	5
Shane Hancox.....	University of Massachusetts.....	19
Stephanie Hanses.....	Brown and Caldwell.....	12
Stefani Harrison.....	Stantec.....	8
Vaughan Harshman.....	V&A Consulting Engineers.....	16
Greg Heath.....	AECOM.....	22
Karilyn Heisen.....	CDM Smith.....	34
Jim Henderson.....	Heartland Water Technology.....	11
Aaron Henderson.....	Arcadis.....	31
Kimberly Hetrick.....	CDM Smith.....	34
James Houle.....	University of New Hampshire.....	17, 33
Andy Hrycyna.....	Mystic River Watershed Association.....	33
Chris Hunniford.....	V&A Consulting Engineers.....	16

PRESENTER	AFFILIATION	SESSION NO.
Amy Hunter	AECOM	2
David Hyder	Stantec	4
Jose Infante Corona	Kleinfelder	2
Jonnas Jacques	Kleinfelder	10
Cameron Jenkins	Arcadis	9
Thomas Johnson	Jacobs	21
Trevor Johnson	Arcadis	31
Ziad Kary	Environmental Partners	16
Molly Keleher	JKMuir	36
Kristian Kelleher	City of Cambridge, MA	24
Eric Kelley	Environmental Partners	26
Courtney Kennedy	Jacobs	9
Kenneth Kessler	NHDES	32
Julia Khrakovsky	GHD	23
Mara Kilburn	The Precision Group	32
Hannah Kominske	Kleinfelder	2
Ryan Kopp	Audubon Society of RI	26
Kimberly Korioth	Rhode Island Infrastructure Bank	4
Emily Korot	CDM Smith	13
Anil Krosuri	Aclarity	5
Bob Lawrence	Jacobs	37
Baoqiang Li	Black & Veatch	29
Michael Lichte	Alcosan	34
Chelsey Little	Town of Montague, MA	30
Tim Little	Town of Montague, MA	30
Kitty Lovell	Woodard & Curran	13
Francisco Mago	SESD	37
Deborah Mahoney	Brown and Caldwell	18
Laura Marcolini	Fuss & O'Neill	21
Kayla Marquis	Woodard & Curran	27
Karina Massey	Jacobs	9
Edwin McAuliffe	Veolia	2
William McConnell	CDM Smith	32
Sean McCormick	RIDEM	1
Michael McDonald	National Grid	25
Theresa McGovern	VHB	17
Patrick McNamara	Black & Veatch	11
Anna Mehrotra	WEF	19
Brian Messner	Wright-Pierce	2
Baxter Miatke	Arcadis	5
David Michelsen	City of Salem, MA	37
Tyler Miller	Arcadis	6
Nicholas Mitch	Arcadis	8, 12
Sean Mitchell	Arcadis	28
Erin Moore	Tighe & Bond	32
Ben Mosher	CDM Smith	31

PRESENTER	AFFILIATION	SESSION NO.
Lynne Moss	Black & Veatch	11
Jacob Mueller	HDR	16
Frederick Mueller	Tighe & Bond	27
Lisa Muscanell-DePaola	Wright-Pierce	10
Maureen Neville	Woodard & Curran	14
Rich Niles	Woodard & Curran	24, 37
Matthew Nolen-Parkhouse	Veolia	2
Erik Nowak	SESD	37
Colin O'Brien	Brown and Caldwell	13
Dylan O'Donnell	Environmental Partners	26
Elizabeth Olson	SDE	17
Rachel Osborn	Woodard & Curran	37
Nate Pacheco	VHB	17
Julianne Page	Woodard & Curran	27
George Papasmiris	NYC DEP	36
Russell Parkman	Ramboll	18
Jaimie Payne	Bartlett & West	13
Mary Penny	Arcadis	22
Forrest Petrich	EPA Office of Wastewater Management	15
Douglas Pinard	Town of Plymouth, MA	16
Rob Pontau	Brunswick Sewer District	31
Ajay Prasad	CDM Smith	22
Sarah Price	Environmental Partners	26
Kevin Raftery	Hazen and Sawyer	28
John Rahill	Kleinfelder	10
Pusker Regmi	Brown and Caldwell	27
Peter Rice	City of Portsmouth, NH	3
Mario Ricozzi	GNHWPCA	28
Max Rome	Charles River Watershed Association	17, 33
Daniel Roop	Tighe & Bond	37
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Scott Shannon	Woodard & Curran	23
Chloe Shields	NEEFC	31
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Tess Sprague.....	Brown and Caldwell	12
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Dave Szymczakiewicz.....	SWSC	10
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Austin Weidner.....	Tighe & Bond	3
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Charles Winslow	GHD	25
Sarah Wohlfahrt	Arcadis.....	28
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Trisha Worthington.....	Tighe & Bond	37
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Joseph Zaleski.....	Woodard & Curran	2
Anthony Zamarro	CDM Smith.....	35
Allison Zanette	CDM Smith.....	22

Moderators

SESSION	MODERATOR	AFFILIATION
1.....	Jeff McBurnie	Casella Resource Solutions
1.....	Jeff LeMay	Town of South Windsor, CT
2.....	Jim Li.....	AECOM
2.....	Patty Chesebrough.....	NEIWPPC
3.....	Scott Lander	Retain-it
3.....	Allison Shivers.....	Tata & Howard
4.....	Cindy Baumann	CDM Smith
4.....	Maria Rose	Town of Brookline, MA
5.....	Laura Marcolini.....	Fuss & O'Neill
5.....	Shane Hancox.....	University of Massachusetts
6.....	Meghan Otis	Wright Pierce
6.....	Zach Lamoureux.....	Carlsen Systems
7.....	Jeff McBurnie	Casella Resource Solutions
7.....	Adam Yanulis.....	Tighe & Bond
8.....	Jesse Locke	Tighe & Bond
8.....	Bill Russo	Automatech
9.....	Peter Garvey.....	Dewberry
9.....	Kara Keleher	Weston & Sampson
10.....	Peter Frick	ADS
10.....	James Drake.....	CDM Smith
11.....	Justin Motta	Stantec
11.....	Scott Firmin.....	Portland Water District
12.....	Andrea Braga	Jacobs
12.....	Julie Sullivan.....	MWRA
13.....	Nick Tooker	University of Massachusetts
13.....	Daryl Coppola	FR Mahony
14.....	Victoria Helle.....	NEIWPPC
14.....	Denise Descheneau	Upper Blackstone Clean Water
15.....	Jeff McBurnie	Casella Resource Solutions
15.....	Peter Garvey.....	Dewberry
16.....	Ryan Wingard.....	Wright-Pierce
16.....	Jim Barsanti	Hazen and Sawyer
17.....	Eric Kelley.....	Environmental Partners
17.....	Scott Lander	Retain-it
18.....	Amy Hunter.....	AECOM
18.....	Jack Segal.....	RIDEM
19.....	Brandon Blanchard.....	Pare Corporation
19.....	Chris Hayward.....	Pare Corporation
20.....	Vanessa Borkowski.....	Stantec
20.....	Eric Spargimino.....	CDM Smith

SESSION	MODERATOR	AFFILIATION
21.....	Varun Srinivasan.....	Trinnex
21.....	Allie Greenfield.....	Woodard & Curran
22.....	Keith Gardner.....	Stantec
22.....	Josh Schimmel.....	Springfield Water and Sewer Commission
23.....	Sarah Nalven.....	VHB
23.....	Janelle Bonn.....	Woodard & Curran
24.....	Emily Cole-Prescott.....	City of Saco, ME
24.....	Katie Evans.....	Woodard & Curran
24.....	Sruthi Kakuturu.....	Dewberry
25.....	Tracy Chouinard.....	Brown and Caldwell
25.....	Tom Schwartz.....	Woodard & Curran
26.....	Joe Keitner.....	City of Westfield
26.....	Brutus Cantoreggi.....	Town of Franklin, MA
27.....	Emily Korot.....	CDM Smith
27.....	Nick Tooker.....	University of Massachusetts
28.....	Bradley Hayes.....	Woodard and Curran
28.....	Tom Loto.....	AECOM
29.....	Vanessa Borkowski.....	Stantec
29.....	Phil Tucker.....	York Sewer District
30.....	Michael Smith.....	Weston & Sampson
30.....	Matthew Dickson.....	Haley Ward
31.....	Jay Sheehan.....	Woodard & Curran
31.....	Donald Gallucci.....	Weston & Sampson
32.....	Adam Higgins.....	Wright-Pierce
32.....	Ben Levin.....	Hazen and Sawyer
33.....	Kate Edwards.....	Arcadis
33.....	Zach Henderson.....	Woodard & Curran
33.....	Natalie Pommersheim.....	Environmental Partners
33.....	Peter Varga.....	Kleinfelder
34.....	Erika Casarano.....	AECOM
34.....	Lin Liang.....	Stantec
35.....	Nicholas Ellis.....	Hazen and Sawyer
35.....	Meredith Zona.....	Stantec
36.....	Maeve Carlson.....	Wright-Pierce
36.....	Wayne Bates.....	Tighe & Bond
37.....	Peter von Zweck.....	Jacobs
37.....	Eliza Styczynski.....	Brown and Caldwell

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ABBA Pump Parts and Service

ADS LLC

APTIM

Aqua Solutions, Inc.

Aquamatrix by Water Analytics

AquaPoint

Aquatic Informatics

Asahi / America, Inc.

Atlantic Fluid Technology Inc.

Barton & Loguidice

BAU/Hopkins - Aqualitec / Verder

BAU/Hopkins - cleanwater1 / Saf-T-Flo

BAU/Hopkins - Macurco/ Griffco

BAU/Hopkins - Netzsch / Prime Solutions

BioSafe Systems

BMC CORP

Boyson and Associates, Inc.

Brown and Caldwell

C.N. Wood Co., Inc.

Carl Lueders & Company

Carlsen Systems, LLC

Casella Organics

Chadwick-BaRoss

Champlin Associates

CleanWay Environmental Partners, Inc

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Core & Main

Corrosion Products New England

Coyne Chemical Environmental Services

Crane Pumps & Systems

CSI Controls

CUES, Inc.

Denali Water Solutions

Dewberry

DN Tanks

Duke's

EJ

Engineered Concepts, Inc.

Environmental Operating Solutions, Inc. (EOSI)

EST Associates

F.R. Mahony & Associates

Flow Assessment Services, LLC

Flow Tech, Inc.

Fluid Conservation Systems

GA Fleet - Fleet Pump & Service

GeoTree Solutions

Green Mountain Pipeline Services

Hach Company

Hayes Group - Hayes Pump, Inc. - Walker Wellington - Atlantic Pump & Engineering

Hazen and Sawyer

Hobas Pipe USA, Inc.

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Industrial Flow Solutions

Exhibitors

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JWB Company - Electroscan Inc. /
Nivelco USA / Autrol America

JWB Company - McCrometer - Open
Channel Flow Products and Services /
Raco Manufacturing & Engineering Co.

JWB Company- Pribusin, Inc. /
Motor Protection Electronics /
Sewer Watch - Eastech

JWB Company - Toshiba Magnetic
Flowmeters / Halogen Systems

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Kiewit

Kleinfelder

LandTech Consultants, Inc.

Lane Enterprises, Inc.

M.A. Selmon Company

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Scavin Equipment Company, LLC

Sealing Systems, Inc.

Sherwin-Williams Protective & Marine

StormTrap

Sullivan Associates /
Ritec Environmental

Synagro Northeast, LLC

Technology Sales Associates

The MAHER Corporation

Ti-SALES

Truax Corporation

United Concrete Products

USABlueBook

Utility Systems Science and Software

Veolia

Walker Wellington, A Hayes Pump
Affiliate

WaterTectonics

Wescor Associates, Inc.

Williamson Electrical Co., Inc.

Xylem Dewatering Solutions

Xylem Water Solutions

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Technical sessions, keynotes, and exhibit hall approvals by participating New England States for Operator Recertification Training Hours are noted below.

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

MA, NH, and RI: 2.0 per session, 1.0 for Monday Keynote, 1.5 for Tuesday Plenary Session, and 1.0 per day in Exhibit Hall.

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Please note, the Exhibit Hall is NOT approved.

VT: 2.0 per session, 1.0 for Monday Keynote, 1.5 for Tuesday Plenary Session,

Please note: Sessions 4, 17, 26, 33, and the Exhibit Hall are NOT approved.

ME: 2.0 per session, 1.0 for Monday Keynote, 1.5 for Tuesday Plenary Session, and 1.0 per day in Exhibit Hall.

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Please also note, Sessions 6, 8, 12, 24, and 31 are approved as "Management" TCHs - up to 6 TCHs per renewal cycle may be a combination of Safety and/or Management topics.