



**NEWEA**  
WORKING FOR WATER QUALITY

CONFERENCE PROGRAM

# WE'RE WORKING FOR WATER QUALITY. WH<sub>2</sub>O'S WITH US?

New England Water Environment Association Presents:

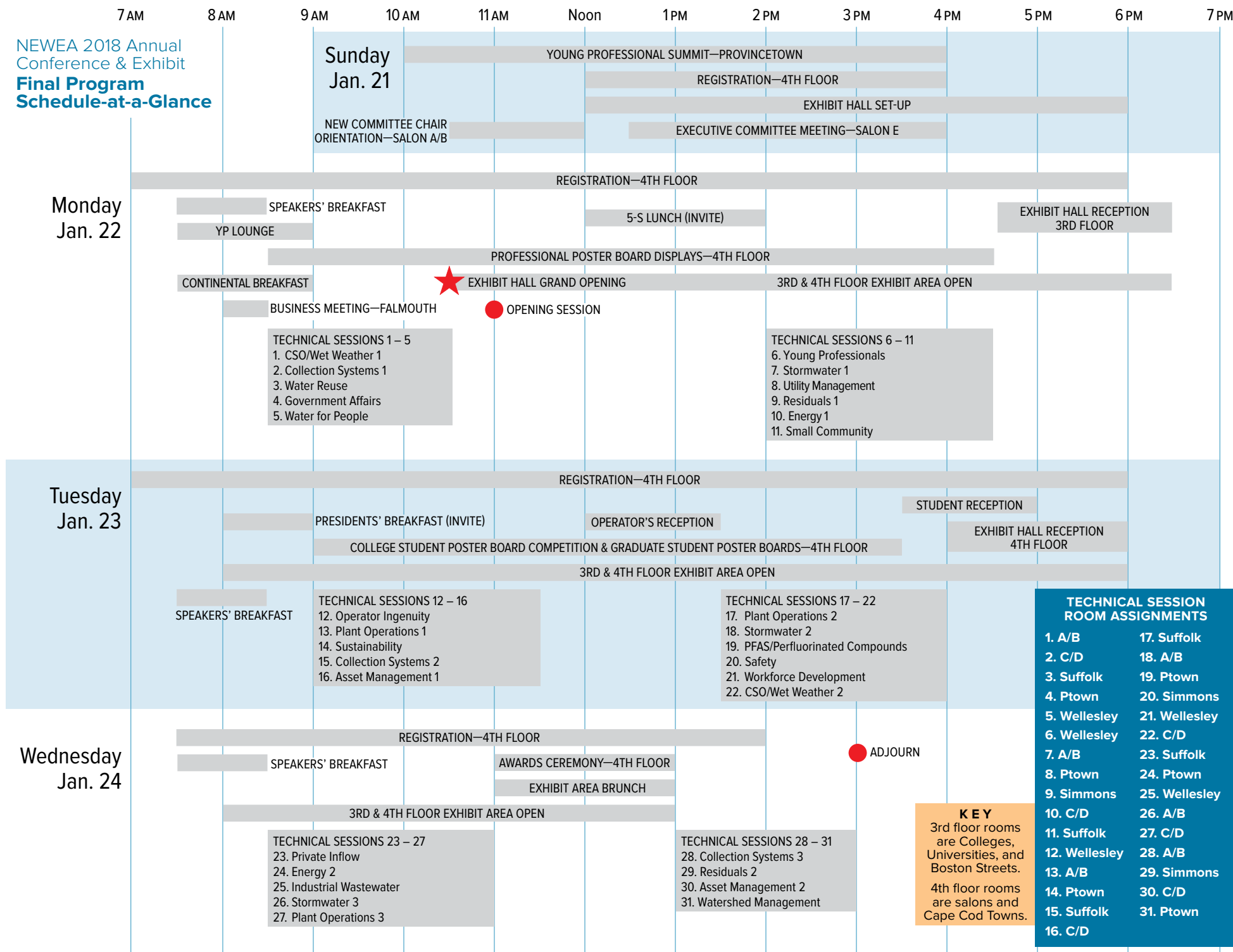
## NEWEA 2018 Annual Conference & Exhibit

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

# Miscellaneous Events & Committee Meetings

Sunday, January 21, 2018		
Committee Chair & Council Director Orientation	Vineyard/Yarmouth	10:30 AM – Noon
Executive Committee	Salon E	12:30 – 4:00 PM
YP Summit	Salon D-C-B	10:00 AM – 4:00
Monday, January 22, 2018		
Awards Committee	Orleans	8:30 – 10:30 AM
Plant Operations Committee	Orleans	Noon – 1:00 PM
CSO/Wet Weather Committee	Hyannis	Noon – 1:30 PM
Energy Committee	Falmouth	Noon – 1:00 PM
YP Committee	Legal Seafoods	Noon – 1:30 PM
Water for People Committee	Legal Seafoods	Noon – 1:30 PM
Stormwater Committee	Simmons	12:30 – 1:30 PM
Small Communities Committee	5 Napkin Burger	12:30 – 1:30 PM
Sustainability Committee	Tufts	1:00 – 2:00 PM
Affiliated State Association Leadership	Clarendon	2:00 – 3:30 PM
Government Affairs Committee	Clarendon	3:30 – 5:00 PM
Public Education Committee	Champions	4:30 – 5:30 PM
Assessment & Development Committee	Champions	4:30 – 5:30 PM
Tuesday, January 23, 2018		
Journal Committee	Orleans	7:30 – 8:30 AM
Laboratory Practices Committee	Falmouth	8:00 – 10:00 AM
Sponsor Committee	Champions	9:00 – 10:00 AM
Collections Systems Certification Committee	Hyannis	11:00 AM – 1:00
Membership Committee	MIT	11:00 AM – Noon
Veterans Workforce Development Committee	Tufts	11:00 AM – Noon
Operations Challenge Committee	Harvard	11:30 AM – 12:30
Stormwater Collaborative Committee	Falmouth	11:30 AM – 1:30
Asset Management Committee	BU	11:30 AM – 1:30
Safety Committee	Champions	11:30 AM – 1:00
Industrial Wastewater Committee	Champions	11:45 AM – 12:45
Collections Systems Committee	Regis	Noon – 1:00 PM
Water Reuse Committee	Salty Pig	Noon – 1:00 PM
Watershed Management Committee	Yarmouth	Noon – 1:30 PM
Residuals Management Committee	Champions	Noon – 1:30 PM
Microconstituents Committee	MIT	1:00 – 1:30 PM
NEWEA/NEWWA/NEAPWA Leadership	Falmouth	2:00 – 3:00 PM
Public Awareness Committee	Champions	3:00 – 4:30 PM
Student Network Reception	Clarendon	3:30 – 4:30 PM
Wednesday, January 24, 2018		
Photo Ready Room	Orleans	9:00 AM
Award Ceremony & Lunch	Salon E	11:00 AM
Speaker Breakfast/Ready Room (M, T, W)	Hyannis	7:30 AM

NEWEA 2018 Annual  
Conference & Exhibit  
**Final Program**  
**Schedule-at-a-Glance**





Jim Barsanti  
NEWEA President



Amy Anderson  
NEWEA Program  
Committee Chair

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## Welcome to the 2018 NEWEA Annual Conference!

We are fortunate to be working together in this great water infrastructure industry. Whether you are a utility manager, engineer, operator, product representative, regulator, or administrator, YOU play an important, vital, and relevant role protecting our New England water resources. This year's theme, WHO'S WITH US, focuses on outreach to students, young professionals, and veterans to become water quality professionals. Our water profession is rich with opportunities with anyone willing to accept the call to join us.

This premier water quality event and exhibit features 31 technical sessions, two poster sessions that showcase both student and water quality professional works, and two floors of exhibitors featuring the industry's latest products. In keeping with the theme of the growth and development of students and young professionals, we encourage you to use this conference to reach out to all students and young professionals by participating in the 2nd Annual Young Professionals Summit on Sunday afternoon, attending the Young Professional Technical Session on Monday, participating in the Workforce Development Session, or student poster competition on Tuesday.

Monday morning features our keynote speaker, Juliette Kayyem, National Security Analyst for CNN who will highlight infrastructure security and resilience in our ever changing industry. On Monday afternoon, we encourage you to visit the professional poster board session on the 4th floor on your way to and from the exhibit hall, or attend any number of our technical sessions. The afternoon winds down with the first of two Exhibit Hall receptions.

Tuesday features the well-known NEWEA Operator Day, including a full program of technical sessions geared towards operators, the Operator Ingenuity technical session on Tuesday morning, the Operator's Reception at noon and countless networking opportunities at the Exhibit Hall Reception in the afternoon.

The final day of the conference features a full day of technical sessions and exhibits, our lunch-time awards ceremony recognizing outstanding efforts in our industry and the passing of the gavel to the 2018 NEWEA President, Janine Burke-Wells of the Warwick Sewer Authority. The Awards Luncheon sells out annually, so don't miss out! We hope you take advantage of all the 2018 Annual Conference has to offer and to use this occasion to catch up with old acquaintances and to cultivate new ones.

Our six state New England region's rivers, ponds, lakes, and ocean beaches provide us with recreational destinations and activities that are second to none. We are blessed with the advantages of these resources because of the work we all do every day to protect and keep them clean, fresh, and vibrant. We thank each of you for your dedication, devotion, and commitment to our New England water resources.

We wish to recognize the significant efforts of the Meeting Management Council and Awards Committee. And finally, we gratefully acknowledge the NEWEA Office Staff: Mary Barry, Janice Moran, and Linda Austin for their energy, professionalism, and patience planning and coordinating this great event!

*Jim Barsanti, NEWEA President*

*Amy Anderson, NEWEA Program Committee Chair*

## NEWEA 2017 EXECUTIVE COMMITTEE

President James Barsanti  
President Elect Janine Burke-Wells  
Vice President Raymond Vermette  
Treasurer Priscilla Bloomfield  
Past President (Management Review) Raymond Willis III  
Executive Director Mary Barry

WEF Delegate (10/14) Daniel Bisson  
WEF Delegate (10/15) Susan Sullivan  
WEF Delegate (10/16) Frederick McNeill  
WEF Delegate (10/17) Matthew Formica

### State Directors

Connecticut Virgil Lloyd  
Maine Clayton "Mac" Richardson  
Massachusetts Justin deMello  
New Hampshire Sean Greig  
Rhode Island Michael Spring  
Vermont Nathan Lavallee

### Council Directors

Collection Systems/Water Resource Council John Digiacomo  
Communications Council Director Jennifer Kelly Lachmayr  
Meeting Management Director Elena Proakis Ellis  
Outreach Council Jonathan Kunay  
Treatment, Systems Operations, &  
Management Council Marylee Santoro

## NEWEA 2017 COUNCILS

### Vice President Council

Veterans Workforce Development\* Dustin Price

### Management Review Council

Assessment and Development Committee Charles Tyler  
Awards Committee Michael Wilson  
Bylaws Committee Douglas Miller  
Committee Member Appreciation Committee Denise Descheneau  
Nominating Committee Bradley Moore  
Sponsor Committee Dennis Vigliotte

## NEWEA 2017 COUNCILS (CONTINUED)

### Meeting Management Council

Conference Arrangements Committee Ronald Tiberi  
Exhibits Committee Paul Casey  
Program Committee Helen Gordon/Amy Anderson  
Registration Committee Kerry Reed

### Communications Council

Journal Committee Joseph Boccadoro  
Newsletter Committee Ashley Dunn  
Public Awareness Committee\* Katelyn Biedron/Meg Tabacsko  
Website Committee\* Robert Musci

### Treatment, Systems Operations, & Management Council

Asset Management Committee John Rogers  
Energy Committee Denise Breitenreicher  
Laboratory Practices Committee James Galasyn  
Microconstituents Committee Justin Irving  
Operations Challenge Committee Travis Peaslee  
Plant Operations Committee Thomas Hazlett  
Residuals Management Committee Natalie Sierra  
Small Community Committee Daniel Ottenheimer  
Utility Management Committee Brian Armet

### Collection Systems/Water Resource Council

Collection Systems Certification Committee Gregory Kidd  
Collection Systems Committee Peter Garvey  
CSO/Wet Weather Issues Committee Ivonne Hall  
Industrial Wastewater Committee Sarah White  
Stormwater Committee David Bedoya/Vinta Varghese  
Sustainability Committee Courtney Eaton/Robert Montenegro  
Water Reuse Committee Nicholas Ellis  
Watershed Management Committee Jennifer Johnson

### Outreach Council

Government Affairs Committee Robert Fischer  
Humanitarian Assistance and  
Grants Committee Tim Vivian  
Membership Committee David Archard  
Public Education Committee Geraldine Ciardelli  
Safety Committee David Aucoin  
Scholarships Committee Udayarka Karra  
Student Activities Committee Annalisa Onnis-Hayden  
Water for People Committee Anastasia Rudenko  
Young Professionals Committee Ben Stoddard

\* Ad hoc



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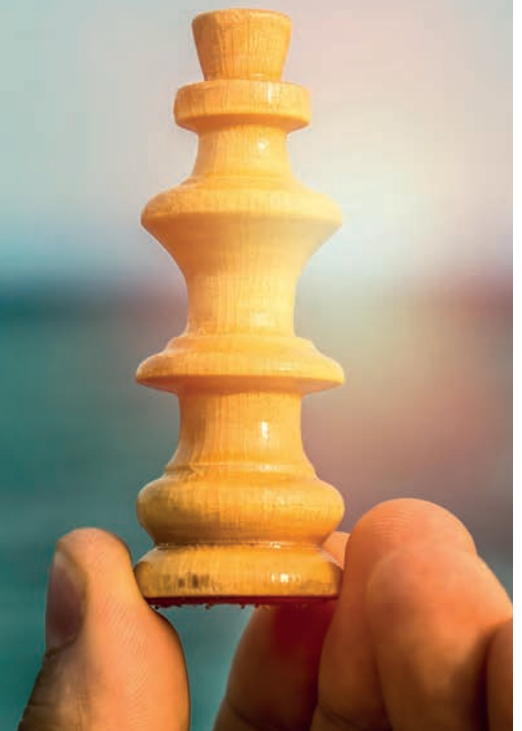
Booth # 162

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Quality. WH<sub>2</sub>O's With Us?**

**NEWEA 2018 Annual  
Conference & Exhibit**

January 21–24

Boston Marriott Copley Place, Boston, MA

## Conference Events

### Sunday, January 21

<b>Young Professionals Summit</b> (Salons B, C, D).....	10:00 AM–4:00 PM
<b>New Committee Chair Orientation</b> (Vineyard/Yarmouth).....	10:30–Noon
<b>Registration</b> (4th Floor).....	Noon–4:00 PM
<b>Exhibit Hall Set-Up</b> .....	Noon–6:00 PM
<b>Executive Committee Meeting</b> (Salon E).....	Noon–3:00 PM

### Monday, January 22

<b>Registration</b> (4th Floor).....	7:00 AM–6:00 PM
<b>Speakers' Breakfast</b> (Hyannis).....	7:30–8:30 AM
<b>Coffee and Continental Breakfast</b> (3rd Floor Atrium).....	7:30–9:00 AM
<b>NEWEA Annual Business Meeting</b> (Falmouth).....	8:00–8:30 AM
Welcome and Opening Remarks: James Barsanti, NEWEA President/City of Framingham, MA Presentation and vote on 2018 Slate of NEWEA Officers. <i>See description on page 48</i>	
<b>Technical Sessions 1–5</b> .....	8:30–10:30 AM
<i>See descriptions beginning on page 18</i>	
<b>Exhibit Hall Grand Opening</b> .....	10:30 AM
Paul P. Casey, Exhibits Committee Chair; James Barsanti, NEWEA President Grand Opening will take place at the main entrances of both the 3rd and 4th floor exhibit areas.	
<b>Exhibits</b> (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 exhibit hall. <i>See page 50 for list of exhibitors.</i>	

### Monday, January 22 continued

<b>Opening Session</b> (Salon E).....	11:00 AM
<b>Professional Poster Board Displays/Session</b> (4th Floor) .....	8:30 AM–4:30 PM
Coordinator: Lauren Hertel, Stantec	
<b>Session with authors</b> .....	1:30–3:30 PM
<b>Select Society of Sanitary Sludge Shovelers' Lunch</b> .....	Noon–2:00 PM
by invitation – Charles Tyler, Influent Integrator (Dartmouth/Exeter)	
<b>Young Professionals Lounge</b> (Vineyard/Yarmouth).....	7:30–9:00 AM
The YP Committee will be hosting a Young Professionals Lounge Ben Stoddard, Kleinfelder	
<b>Technical Sessions 6–11</b> .....	2:00–4:30 PM
<i>See descriptions beginning on page 21</i>	
<b>Exhibit Hall Break</b> .....	3:00–3:30 PM
<b>Exhibit Hall Reception</b> (3rd Floor Exhibit Area).....	4:30–6:30 PM

### Tuesday, January 23

<b>Registration</b> (4th Floor).....	7:00 AM–6:00 PM
<b>Speakers' Breakfast</b> (Hyannis).....	7:30–8:30 AM
<b>Guest Program</b> – <i>See description on page 49</i> .....	7:30 AM–4:00 PM
<b>NEWEA Presidents' Breakfast</b> (Champions).....	8:00–9:00 AM
by invitation	
<b>Exhibits</b> .....	8:00 AM–6:00 PM
3rd and 4th Floor Exhibit Areas	
<b>Technical Sessions 12–16</b> .....	9:00–11:30 AM
<i>See descriptions beginning on page 24</i>	
<b>College Student Poster Board Competition</b> (4th Floor).....	9:00 AM–3:30 PM
Coordinator: Thomas Groves, NEIWPCC	
<b>Session with authors</b> .....	12:30–2:00 PM
<b>Exhibit Hall Break</b> .....	10:00–10:30 AM
<b>Operator's Reception</b> (Dartmouth/Exeter) .....	Noon–1:30 PM
Sponsored by: Connecticut Water Pollution Abatement Association Connecticut Association of Water Pollution Control Authorities Green Mountain Water Environment Association Maine Water Environment Association Massachusetts Water Pollution Control Association Narragansett Water Pollution Control Association New Hampshire Water Pollution Control Association	
<b>Technical Sessions 17–22</b> .....	1:30–4:00 PM
<i>See descriptions beginning on page 27</i>	
<b>Exhibit Hall Break</b> .....	2:30–3:00 PM
<b>Student Networking Reception</b> (Clarendon) .....	3:30–4:30 PM
<b>Exhibit Hall Reception</b> (4th Floor Exhibit Area).....	4:00–6:00 PM



## Wednesday, January 24

<b>Registration</b> – 4th Floor .....	7:30 AM–2:00 PM
<b>Speakers' Breakfast</b> (Vineyard/Yarmouth) .....	7:30–8:30 AM
<b>Exhibits</b> .....	8:00 AM–1:00 PM
3rd and 4th Floor Exhibit Areas	
<b>Technical Sessions 23–27</b> .....	8:30–11:00 AM
See descriptions beginning on page 30	
<b>Exhibit Hall Break</b> .....	9:30–10:00 AM
<b>Mr &amp; Mrs Fish Presentation:</b> .....	9:30 AM & 11:30 AM
The Mystery of the Clam (two performances) Tremont Room (1st Floor)	
<b>NEWEA Awards Ceremony and Lunch</b> (ticket required) .....	11:00 AM–1:00 PM
<b>Exhibit Area Brunch</b> .....	11:00 AM–1:00 PM
The exhibit area brunch will be held in both the 3rd and 4th Floor Exhibit Areas.	
<b>Technical Sessions 28–31</b> .....	1:00–3:00 PM
See descriptions beginning on page 33	
<b>Adjourn</b> .....	3:00 PM



## Opening Session

Welcome:

**James Barsanti, NEWEA President,**  
City of Framingham, MA

Keynote Speaker:

**Juliette Kayyem, Kayyem Solutions, LLC**

MONDAY, JANUARY 22  
11:00 AM

Moderator:

Amy Anderson, NEWEA  
Program Chair, Arcadis

### Salon E

Juliette Kayyem, founder of Kayyem Solutions, LLC, a female-owned security business providing strategic advice to a range of companies, has served as a national leader in America's homeland security efforts.

Juliette has spent over 15 years managing complex policy initiatives and organizing government responses to major crises in both state and federal government. Most recently, she was President Obama's Assistant Secretary for Intergovernmental Affairs at the Department of Homeland Security. There she played a pivotal role in major operations including handling of the H1N1 pandemic and the BP Oil Spill response; she also organized major policy efforts in immigration reform and community resiliency.

Before that, she served as Massachusetts Governor Deval Patrick's homeland security advisor, guiding regional planning and the state's first interoperability plan, and overseeing the National Guard. She has also served as a member of the National Commission on Terrorism, a legal advisor to US Attorney General Janet Reno, and a trial attorney and counselor in the Civil Rights Division at the Justice Department. She is the recipient of many government honors, including the Distinguished Public Service Award, the Coast Guard's highest medal awarded to a civilian. In 2013, she was named the Pulitzer Prize finalist for editorial columns in the Boston Globe focused on ending the Pentagon's combat exclusion rule against women, a policy that was changed that year.



Juliette Kayyem



**Sessions 1–5**  
Monday  
8:30–10:30 AM

## Session 1

**CSO/Wet Weather 1:  
Innovation in CSO  
Management**

*Moderators:*

Ivonne Hall,  
Connecticut DEEP  
Rita Fordiani, Kleinfelder

## Salon A/B

## Session 2

**Collection Systems 1:  
To Dig or Not to Dig,  
That is the Question**

*Moderators:*

Peter Garvey, Dewberry  
Kara Johnston, CDM Smith

## Salon C/D

# Technical Sessions

**Hartford Metropolitan District Commission (MDC)  
Wet Weather Expansion Project (WWEP) Phase 1—  
New 200 MGD Preliminary Treatment Facilities**

Greg Bazydola, Arcadis  
Thomas Tyler, The Metropolitan District

**Design and Implementation of the South Hartford  
CSO Tunnel**

Brian Canterbury, AECOM  
James Sullivan, AECOM  
Andrew Perham, The Metropolitan District

**Modernizing Combined Sewers Inspections using  
Drones in Boston, MA**

Jonnas Jacques, Kleinfelder  
Amy Schofield, Boston Water and Sewer Commission  
David Peterson, Kleinfelder

**Globe Street Sewer Improvements: “The Dancing  
Manhole Cover”**

Andrew Smith, Wright-Pierce  
Terrence Sullivan, City of Fall River, MA  
Paul Ferland, City of Fall River, MA

**Downtown Sewer System Rehabilitation Light on  
Study—Heavy on Rehab**

Stephen Calabro, Stantec  
Jonas Kazlauskas, Town of Bridgewater, MA  
Michael Brady, Stantec

**A “CIPP First” Approach Changes Community from  
Reactive Scramblers to Proactive Believers**

Justin deMello, Woodard & Curran

**Designing for Construction—Trenchless Solutions for  
the Springfield Water and Sewer Commission**

Laura Nolan, Kleinfelder  
Josh Schimmel, Springfield Water and Sewer  
Commission  
Tom Ritchie, Kleinfelder

**Framingham Interchange 12 Interceptor—Trenchless  
Technologies Can Apply to New Pipelines Too!**

Victor Olson, Stantec

Monday  
8:30–10:30 AM

## Session 3

**Water Reuse—  
Old Meets New:  
Water Reuse Treatment  
and Regulation**

*Moderators:*

Helen Gordon,  
Environmental Partners  
Group  
Chuck Pike, Black & Veatch

## Suffolk

## Session 4

**Government Affairs:  
“Ask not what your  
country can do for  
you—ask what you can  
do for your country”**

*Moderators:*

Matt Formica, AECOM  
Lauren Hertel, Stantec

## Provincetown

# Technical Sessions 1–5

**Use of Reclaimed Water Expanded at Bayberry Hills  
Golf Course in Yarmouth, MA**

David Young, CDM Smith  
Jeff Colby, Town of Yarmouth, MA

**Fluorescence Characterization of Organic Fouling in  
Membrane Treatment**

Lauren Bergman, Tighe & Bond

**Sidestream Anaerobic Zones Open Up Options and  
Improve Phosphorus Removal Process Stability**

Patrick Dunlap, Black & Veatch  
James Barnard, Black & Veatch  
Mark Steichen, Black & Veatch

**S2 EBPR Practices and Fundamentals—Rethinking  
and Reforming Enhanced Biological Phosphorous  
Removal**

Nick Tooker, Northeastern University

**WIFIA—Learn About EPA’s Newest Water  
Infrastructure Financing Opportunities**

Karen Fligger, US EPA

**Regulatory Advocacy for Water and Wastewater  
Utilities**

Philip Guerin, Massachusetts Coalition for Water  
Resources Stewardship

**Using WQS Variances to Implement an Adaptive  
Management Approach to Nutrient Source Control**

Gregory Currey, Tetra Tech, Inc.  
Clair Meehan, Tetra Tech, Inc.

**Long-Term Instrument-Based Monitoring for  
Assessing Compliance with Water Quality Standards**

Alex Santos, Arcadis  
Dominic DiSalvo, Bergen County Utilities Authority

Monday  
8:30–10:30 AM

## Session 5

**Water for People:  
Global Perspectives  
on Water and the  
Environment**

*Moderators:*  
Renie Jesanis, MWRA  
Tommy Chase,  
PEER Consultants, Inc.

### Wellesley

## Technical Sessions 1–5

**Ready, Set, Listen! Perspectives from the Listening  
Project on International Work**  
Hugh Tozer, Woodard & Curran

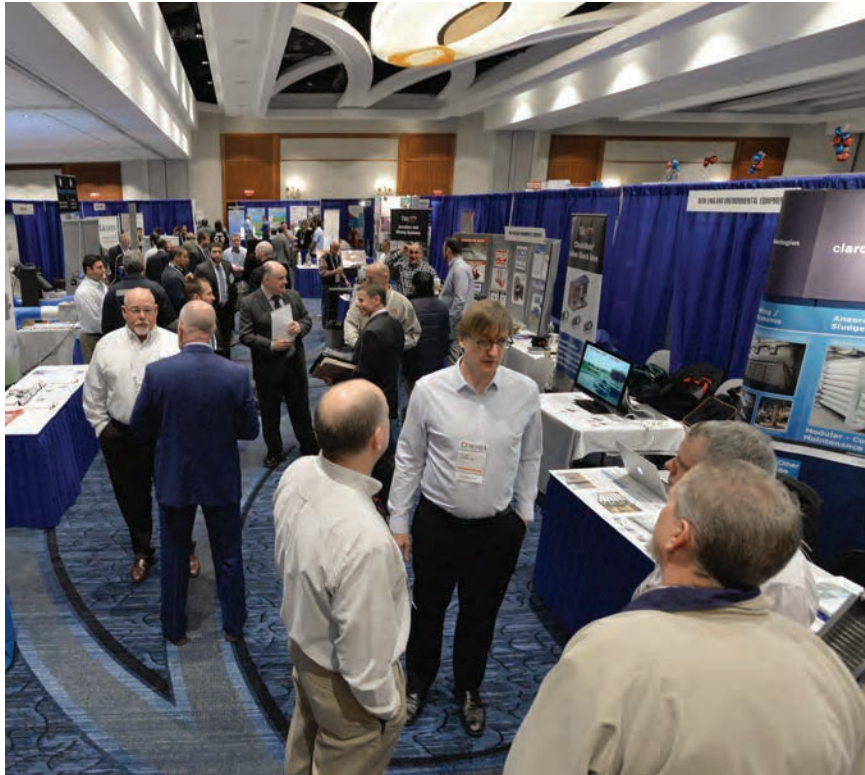
**Cambodia 2017—Water and Wastewater Experiences**  
James Donison, Town of Hooksett, NH

**Improving Water Quality in the Villages of Himachal  
Pradesh**

Evelyn Grainger, Worcester Polytechnic Institute  
Randy Melanson, Worcester Polytechnic Institute  
Amod Choudhary, Worcester Polytechnic Institute

**Wading Water Woes by bringing 4M approach into  
Program Planning and Implementation - Lessons  
from India**

Dr. Sakshki Saini, Society for Participatory Research in  
Asia



**Sessions 6 – 11**  
Monday  
2:00–4:30 PM

## Session 6

**Young Professionals**

*Moderators:*  
Amanda Lade, AECOM  
Kate Roosa,  
Woodard & Curran

### Wellesley

## Technical Sessions

**Multifaceted Approach to Copper Reduction at the  
Scituate Wastewater Treatment Facility**

Austin Weidner, Tighe & Bond  
William Branton, Town of Scituate, MA

**Performing Successful Large Diameter Pipe  
Inspections Under Variable Flow Conditions**

Eliza Morrison, Wright-Pierce  
Michael Stein, Wright-Pierce

**Process Improvements at Southbridge WWTP**

Vanessa Borkowski, Stantec  
Justin Motta, Stantec

**Turners Falls Main Drain and Siphon Rehabilitation**

Ryan Graham, CDM Smith  
Jonathan Kunay, CDM Smith  
Tom Bergeron, Town of Montague, MA

## Session 7

**Stormwater 1:  
Stormwater Resiliency  
Planning for an  
Uncertain Future  
Climate**

*Moderators:*  
David Bedoya, Stantec  
Vinta Varghese, CH2M

### Salon A/B

**New York City Stormwater Climate Resilience Study**

Steven Roy, Ramboll Environ  
Trine Stausgaard Munk, Ramboll

**Advanced 2D Hydraulic Modeling and LIDAR  
Integration for Resiliency Planning**

Caitlin Fedio, Hazen and Sawyer  
Charles Wilson, Hazen and Sawyer

**Integrating Flood Protection and Linear Park Space  
in a Vulnerable Urban Environment**

Victoria Weiss Yildirim, Dewberry  
Milton Puryear, Brooklyn Greenway Initiative

**Promoting Sustainable Land Use Development**

Danielle Spicer, Green International Affiliates, Inc.

**Exhibit Hall Break**  
3:00–3:30 PM

Monday  
2:00–4:30 PM

## Session 8

**Utility Management:  
Preparing and  
Planning for the  
Future Management  
of Utilities**

*Moderators:*  
Laura Nolan, Kleinfelder  
Kevin Garvey, CDM Smith

## Provincetown

## Session 9

**Residuals 1:  
Lessons Learned  
from Municipal  
Solids Planning**

*Moderators:*  
Natalie Sierra,  
Brown and Caldwell  
Tracy Chouinard,  
Brown and Caldwell

## Simmons

**Exhibit Hall Break**  
3:00–3:30 PM

## Technical Sessions 6–11

**Creating Change Starts with an Organizational  
Assessment: A Field-Tested Approach**

Seth Garrison, Raftelis Financial Consultants  
Tom Arn, Raftelis Financial Consultants

**Effective Utility Management—A Case Study of  
Manchester, NH**

Frederick McNeill, City of Manchester, NH

**An Aging Industry—Preparing the Next Generation  
of Wastewater Management**

Benjamin Smith, NEIWPCC  
John Murphy, MassDEP

**An Integrated Water Resources Management Plan  
for a Small City**

Pamela Westgate, Kleinfelder  
Dan Murphy, City of Easthampton, MA

**Seven Miles of Sludge Pipe -- A Fifteen-Year Journey**  
Ethan Wenger, MWRA

**A Streamlined Approach to Multi Facility Master  
Planning with Triple Bottom Line Optimization**

Vera Gouchev, Hazen and Sawyer  
Paul Knowles, Hazen and Sawyer  
Robert Sharp, Hazen and Sawyer

**Co-Digestion with Food Waste Organics—The Next  
Chapter in GLSD Biosolids Management**

Richard Weare, Greater Lawrence Sanitary District  
Michael Walsh, CDM Smith  
Cheri Cousens, Greater Lawrence Sanitary District  
Benjamin Mosher, CDM Smith

**New Products and Markets for a Federally  
Registered Biosolid Fertilizer**

Samantha Halloran, Lystek International  
Mike Dougherty, Lystek International

Monday  
2:00–4:30 PM

## Session 10

**Energy 1:  
Tales of Energy  
Efficiency and  
Lessons Learned**

*Moderators:*  
David Michelson, South  
Essex Sewerage District  
Dede Vittori, MWRA

## Salon C/D

## Session 11

**Small Community:  
Practical Solutions  
for Small Community  
Problems**

*Moderators:*  
Ian Catlow, Tighe & Bond  
Kurt Mailman,  
Fuss & O'Neill

## Suffolk

**Exhibit Hall Break**  
3:00–3:30 PM

## Technical Sessions 6–11

**Design and Operation of Advanced Aeration Control  
Systems**

Maureen Neville, CDM Smith  
Alexandra Doody, CDM Smith

**An ESCO Story—Aeration Upgrades in Westfield,  
MA Lead to Energy Savings and Improved Process  
Control**

Cynthia Castellon, Tighe & Bond  
Jeffrey Gamelli, City of Westfield, MA  
Kenneth Gagnon, City of Westfield, MA

**New Hampshire's Unique Approach to Wastewater  
Efficiency**

Sharon Rivard, NHDES  
Mark Toussaint, Eversource Energy  
Steve Bolles, Process Energy Services

**How Oversized Mixers Hurt Activated Sludge  
Performance**

Coenraad Pretorius, CDM Smith  
Ed Wicklein, Carollo Engineers  
Randal Samstag, Randal W. Samstag Civil and Sanitary  
Engineer

**Decentralized Wastewater Collection and Advanced  
Treatment Technology**

Julie Barown, Orenco Systems, Inc.

**Selection of an On-Site Wastewater Treatment  
System for the Buskin Beach House in Kodiak,  
Alaska**

Luis Garcia, U.S. Coast Guard Academy  
Gretchen Krause, U.S. Coast Guard Academy  
Sharon Zelmanowitz, U.S. Coast Guard Academy

**Hydraulics of Pressure Sewer Systems**

Keith McHale, Environment One Corporation  
Clark Henry, Environment One Corporation  
Michael Crowley, Environment One Corporation

**Solving Stormwater Issues at US Coast Guard Air  
Station Borinquen—A Senior Capstone Design  
Experience**

Corinna Fleischmann, U.S. Coast Guard Academy  
Elizabeth Nakagawa, U.S. Coast Guard Academy  
Clara Dahill, U.S. Coast Guard Academy

**Sessions 12–16**  
Tuesday  
9:00–11:30 AM

## **Session 12** **Operator Ingenuity**

*Moderators:*  
Tim Vadney, Wright-Pierce  
Lindsey Shields,  
Wright-Pierce

**Wellesley**

## **Session 13** **Plant Operations 1: Nutrients**

*Moderators:*  
Tom Hazlett,  
Woodard & Curran  
John Adie, NHDES

**Salon A/B**

# Technical Sessions

### **Pump Station Odor Control**

Joseph Rock, Town of Edgartown, MA  
David Thompson, Town of Edgartown, MA

### **How to Sell your Upgrade**

Michael Carle, Town of Hampton, NH

### **Less is Better—Benefits of Biological Phosphorus Removal**

Kenneth Harwood, Town of Ayer, MA

### **Reducing Pump Installation and Operating Costs**

Kevin Cini, City of Groton, CT

### **Evolving Nutrient Standards for a Small Coastal NH Community: Newmarket, NH WWTF Upgrades**

Michael Curry, Wright-Pierce  
Sean Greig, Town of Newmarket, NH

### **Testing Add-On Phosphorus Removal Processes at Upper Blackstone to Balance Low-Level Phosphorus and Metals Permit Limits**

Maureen Neville, CDM Smith  
Alexandra Bowen, CDM Smith  
Karla Sangrey, Upper Blackstone Water Pollution Abatement District

### **Tertiary Filtration Process Performance Testing to Meet 0.05 mg/l Total Phosphorus**

Matthew Formica, AECOM  
Jon Pearson, AECOM  
Erik Grotton, Blueleaf, Inc.

### **Implementation of Nutrient Removal Upgrades in Cranston, RI—A Phased-Approach to Achieving Effluent Limits Entering the Pawtuxet River Helps Control Capital Improvement Costs**

David Bowen, Wright-Pierce  
Andrew Grota, Wright-Pierce  
Kenneth Mason, City of Cranston, RI

Tuesday  
9:00–11:30 AM

## **Session 14** **Sustainability: Sustainable Energy— Creating Food from Waste**

*Moderators:*  
Courtney Eaton,  
Woodard & Curran  
Sandy Tripp, GHD

**Provincetown**

## **Session 15** **Collection Systems 2: Pumped for Resilience**

*Moderators:*  
Mark Thompson,  
Kleinfelder  
Dennis Sullivan, National  
Water Main Cleaning Co.

**Suffolk**

# Technical Sessions 12–16

### **Alternative Project Delivery Improves Biosolids Program Sustainability**

James Dunbar, Lystek International  
Greg Baatrup, Fairfield-Suisun Sewer District, CA  
Tim Shea, Waite Consulting

### **Digest or Co-digest—Can the Clinton WWTP Import Organics or Not?**

Christopher Muller, Brown and Caldwell  
Kevin DePerri, MWRA  
David Duest, MWRA  
Robert Gorham, MWRA

### **Co-digestion of Organic Solid Waste at WWTPs—Pre-treatment Options**

Joerg Blischke, Black & Veatch

### **Food Waste and FOG Processing for Digestion**

Wayne McFarland, GHD

### **Rerouting Worcester's Sewer—The New Whitla Drive Pump Station**

Daniel Roop, Tighe & Bond

### **Increasing the Resilience of Vulnerable Infrastructure in the Face of Climate Change—A Tale of Two Communities**

Sara Greenberg, GHD  
Anastasia Rudenko, GHD

### **Winning the War Against Wipes**

Troy Heimerl, JWC Environmental  
Kevin Bates, JWC Environmental

### **Not Just Another Leak in the Pipe**

Marc Moccio, Wright-Pierce  
Kevin Olson, Wright-Pierce  
Robert Ward, City of Haverhill, MA

**Exhibit Hall Break**  
10:00–10:30 AM

**Exhibit Hall Break**  
10:00–10:30 AM



Tuesday  
9:00–11:30 AM

## Session 16

### Asset Management 1: Planning

#### Moderators:

Georgine Grissop,  
CDM Smith  
Peter von Zweck, CH2M

### Salon C/D

## Technical Sessions 12–16

**Timing is Everything: CIP Prioritization Methods**  
Kevin Campanella, Burgess & Niple, Inc.

### Burlington Vermont's First Asset Management Journey

Greg Johnson, City of Burlington, VT  
John Jackman, Hoyle, Tanner & Associates  
Rod Lovely, Assetic

### Getting the Most Out of Your Asset Management System: Data Analysis and Visualization for Self-Assessment and Planning

Cris Perez, Kleinfelder  
Andrew Goldberg, Kleinfelder

### Lowell Regional Wastewater's Approach to Asset Management of its Critical Facilities

Brian Shea, Stantec  
Mark Young, Lowell Regional Wastewater Utility  
Michael Stuer, Lowell Regional Wastewater Utility



Exhibit Hall Break  
10:00–10:30 AM

Sessions 17–22  
Tuesday  
1:30–4:00 PM

## Session 17

### Plant Operations 2: Cost Cutting Case Studies

#### Moderators:

Nick Tooker,  
Northeastern University  
Sue Guswa,  
Woodard & Curran

### Suffolk

## Technical Sessions

### Optimization Through Design—Implementing Full Scale Carbon Addition to 700 MGD of Wastewater Treatment in NYC

Robert Frost, Hazen and Sawyer  
Sarah Galst, Hazen and Sawyer  
Mark Supplee, CH2M

### Improving Nutrient Removal of Existing Wastewater Facilities using Cyclical Aeration and Chemical Addition

Rachel Schnabel, Fuss & O'Neill  
Jeffrey McDonald, Fuss & O'Neill, Inc.  
Stephanie Baldino, Town of Plainfield, CT

### A New Low—Achieving 3 mg/L Total Nitrogen with Bardenpho

Matthew Pitta, CDM Smith  
William McConnell, CDM Smith  
David Norton, City of Brockton, MA

### Primary Setting Tank Concrete Repair Work at the Poquonock WPCF, CT—The Success Story of Overcoming Budgetary Challenges

Allison Zeoli, Arcadis  
Carl Veilleux, The Metropolitan District

## Session 18

### Stormwater 2: MS4 Community Strategies for Effective Stormwater Management

#### Moderators:

Vonnie Reis, City of Framingham, MA  
Natalie Pommersheim,  
Environmental Partners Group

### Salon A/B

### Evaluating Urban Water Quality in Boston's MS4

Andrea Braga, Geosyntec Consultants  
Charlie Jewell, Boston Water and Sewer Commission  
Amy Schofield, Boston Water and Sewer Commission

### Planning for Phosphorus Control—Let's Not Reinvent the Wheel

Zach Henderson, Woodard & Curran  
Steve Lauria, Woodard & Curran

### MS4 Program Cost Savings through Community Partnerships

Kathryn Edwards, Arcadis  
Nicholas Erickson, City of Fitchburg, MA

### The Formation and Functions of the National Municipal Stormwater Alliance and Regional Coalitions of MS4 Permittees: A New Strategy for MS4 Permitting Efficiency and Effectiveness

Randy Neprash, Stantec

Exhibit Hall Break  
2:30–3:00 PM

Tuesday  
1:30–4:00 PM

## Session 19

### HOT TOPIC:

**PFAS/Perfluorinated Compounds—Regulatory Concerns Are Impacting Wastewater & Residuals Managements**

#### *Moderators:*

Shelagh Connelly,  
Resource Management, Inc.  
Elena Proakis-Ellis,  
City of Melrose, MA

## Provincetown

## Session 20

**Safety: Safety is Only as Strong as the Weakest Link**

#### *Moderators:*

David Aucoin,  
Narragansett Bay  
Commission  
Patricia Chesebrough,  
Weston & Sampson

## Simmons

## Technical Sessions 17–22

**Perfluorinated Alkyl Substance (PFAS) Concerns Related to Wastewater & Residuals**  
Ned Beecher, NEBRA

**Getting Ahead of the Curve – Risk Management Strategies for Perfluoroalkyl Substances**  
Sara Barbuto, Integral Consulting Inc.  
Rachel Jacobson, WilmerHale  
Nicholas Shonka, Integral Consulting

**PFAS in New England: Regulatory Status and Considerations for Assessment**  
Lisa McIntosh, Woodard & Curran

**Analyzing PFAS in Wastewater, Residuals and Soils**  
Sarita Croce, Town of Merrimack NH

**How to Read (and Understand) Safety Data Sheets!**  
David Horowitz, Tighe & Bond

**The Top 10!**  
David Wright, Weston & Sampson

**The Importance of Maintenance in Your Safety Program**  
John Perrotti III, Fuss & O'Neill  
Larry Bouvier, Fuss & O'Neill

**Can You Handle the Pressure?**  
David Wright, Weston & Sampson

**Exhibit Hall Break**  
2:30–3:00 PM

Tuesday  
1:30–4:00 PM

## Session 21

**Workforce Development: Attracting the Next Generation to the Water Quality Profession**

#### *Moderators:*

Lenny Young, MWRA  
Danielle Gallant,  
CDM Smith

## Wellesley

## Session 22

**CSO/Wet Weather 2: Smart CSO Planning and Optimization**

#### *Moderators:*

Jeff Cantwell, Flow  
Assessment Services  
Steve Perdios, Dewberry

## Salon C/D

## Technical Sessions 17–22

**Veteran Engagement—NEWEA Water Warriors**  
Dustin Price, Portland Water District  
Peter Goodwin, Ted Berry Company

**The Davies School to Career Program—A Work-Based Learning Partnership with the Warwick Sewer Authority**  
Betty Anne Rogers, Warwick Sewer Authority  
Janet Butler, Davies Career and Technical High School  
Christina Befumo, Davies Career and Technical High School

### **CSO Plan Optimization using SWMM**

Nancy Kelley Beaton, CDM Smith  
Eilish Corey, CDM Smith  
Paul Ferland, City of Fall River, MA

**Narragansett Bay Commission, Phase III CSO Abatement Program—Revaluation and Optimization**  
Todd Moline, MWH Constructors  
Chris Feeney, Stantec  
Kathryn Kelly, Narragansett Bay Commission

**Addressing the City of Albany's CSO and Flooding Challenges with Continuous Monitoring and Adaptive Control Technology**  
Scott Simpson, OptiRTC  
William Simcoe, City of Albany, NY  
Mike Miller, CHA Consulting, Inc.

**Water Analytics—Empowering Decision Making Through Big Data Analysis and Living Models in Hartford, CT**  
Scott Craig, CDM Smith  
Jason Waterbury, The Metropolitan District  
Matthew Gamache, CDM Smith

**Exhibit Hall Break**  
2:30–3:00 PM

**Sessions 23 – 27**  
Wednesday  
8:30–11:00 AM

## Session 23

**Private Inflow:  
Navigating Private  
Inflow in Public  
Communities**

*Moderators:*

Frank Occhipinti,  
Weston & Sampson  
William Paulitz,  
City of Peabody, MA

**Suffolk**

## Session 24

**Energy 2: Finding  
Energy Savings in  
Resource Recovery**

*Moderators:*

David VanHoven, Stantec  
John Adie, NHDES

**Provincetown**

# Technical Sessions

**Removal of Private Inflow—No Thanks, Not in my  
Basement or Backyard**

Chris Dwinal, Wright-Pierce  
Kattie Hartwell, Wright-Pierce

**Separating Combined Properties in Chicopee, MA**

Allison McMordie, Tighe & Bond  
Kayla Larson, Tighe & Bond

**Sump Pump Disconnection Programming and  
Ordinance Development**

Lindsey Sylvester, Wright-Pierce

**Finding Inflow—A Public, Private...Animated  
Production**

Justin deMello, Woodard & Curran  
Brian Pena, City of Lawrence, MA

**Torrefaction, Pyrolysis, and Gasification-Thermal  
Processes for Resource Recovery and Biosolids  
Management**

Jeanette Brown, Manhattan College

**Flue Gas CO<sub>2</sub> Recycling at Upper Blackstone Water  
Pollution Abatement District**

Rick Johnson, Clearas Water Recovery  
Mark Johnson, Upper Blackstone Water Pollution  
Abatement District  
David Bayless, Ohio University

**Apply PONDUS Thermochemical Hydrolysis (TCHP)  
for Improving Biogas Production, Digested Sludge  
Dewaterability and Energy Balance of Solids  
Handling Processes**

Zhongtian Li, Centrisys Corporation - CNP Division  
Melissa Arnot, Kenosha Water Utility  
Hiroko Yoshida, Centrisys Corporation - CNP Division

**Modelling Ammonia Based Aeration Control in Real  
Time with Online Instrumentation**

Dave Commons, Hach  
Bob Dabkowski, Hach  
Melody White, Hach

Wednesday  
8:30–11:00 AM

## Session 25

**Industrial Wastewater:  
Industrial Discharger's  
Opportunities for  
Studying Non-  
Traditional Pollutant  
Loading, Stormwater  
Compliance Strategy  
and FOG Mitigation**

*Moderators:*

Michael Curtis,  
Quantum Biopower  
Sarah White,  
UniFirst Corporation

**Wellesley**

## Session 26

**Stormwater 3:  
Sustainable  
Stormwater  
Management, Green  
Infrastructure, and  
Other Innovative Ideas**

*Moderators:*

Maria Rose,  
City of Newton, MA  
Kathryn Edwards, Arcadis

**Salon A/B**

# Technical Sessions 23–27

**Effects of a Novel Degreaser on FOG Accumulation,  
Membrane Performance, and Effluent Compliance**

Patrick Antle, Protein Matrix  
David Elmer, Weston & Sampson  
Corey Repucci, Weston & Sampson

**Challenges Assessing and Treating Wastewater from  
Biotechnology Manufacturing Operations**

Wayne Bates, Tighe & Bond  
William Potochniak, Tighe & Bond  
Derek Sykes, Amgen

**Wastewater Load Modeling—What you Don't Know  
Can Hurt You**

Alex Santos, Arcadis

**Addressing the Impacts of Industrial Stormwater  
Compliance**

Russell Parkman, Ramboll Environ

**Satellite Treatment as an Anchor for Green Space**

Mark Boner, WesTech Engineering  
Matthew Williams, WesTech Engineering, Inc.  
Brian Mitchell, WesTech

**The Path to Sustainable Funding for Stormwater  
Infrastructure in Longmeadow, MA**

Tracy Adamski, Tighe & Bond  
Sarah Bounty, Tighe & Bond  
Stephen Crane, Town of Longmeadow, MA

**A Green Street for Watertown, MA**

Pallavi Mande, Charles River Watershed Association  
Elisabeth Cianciola, Charles River Watershed  
Association  
Matt Shuman, Town of Watertown, MA

**Green Houses in The Bronx for CSC control**

Virginia Roach, CDM Smith  
Walid Harrouch, City of New York DEP

**Exhibit Hall Break**  
9:30–10:00 AM

**Exhibit Hall Break**  
9:30–10:00 AM

Wednesday  
8:30–11:00 AM

## Session 27

**Plant Operations 3:  
Plant Upgrades from  
Planning Through  
Construction**

*Moderators:*

David Press, Tighe & Bond  
Lindsey Shields,  
Wright-Pierce

## Salon C/D

## Technical Sessions 23–27

**Newington, NH WWTF—Repackaging an Old  
Packaged Treatment Plant**

Jeff Mercer, Wright-Pierce

**Conceptual Resiliency Planning for Stratford Water  
Pollution Control Facility**

Daniel Stapleton, GZA GeoEnvironmental, Inc.  
Samuel Bell, GZA GeoEnvironmental, Inc.  
Chad Cox, GZA GeoEnvironmental, Inc.

**Treatment Options for Achieving Stringent Nutrient  
Removal at One of the Last Municipal Powdered  
Activated Carbon/Wet Air Oxidation Plants in the  
U.S.**

Fred Mueller, Tighe & Bond  
Austin Weidner, Tighe & Bond  
Robert Grasis, Town of Vernon, CT

**Understanding IFAS—Lessons Learned from the  
Hooksett Experience**

David Mercier, Underwood Engineers



**Exhibit Hall Break**  
9:30–10:00 AM

**Sessions 28 – 31**  
Wednesday  
1:00–3:00 PM

## Session 28

**Collection Systems 3:  
An Odor! An Inline  
Storage! My Kingdom  
for Alternative Delivery!**

*Moderators:*

Shawn Syde, CDM Smith  
John Murphy, Stantec

## Salon A/B

## Technical Sessions

**Oneida County, NY—A Case Study for Continuous  
Improvement**

Peter Frick, ADS Environmental Services  
Brian Whittaker, O'Brien & Gere  
Michael Armes, ADS Environmental Services

**Reducing H<sub>2</sub>S and Odors with Superoxygeanted  
Wastewater**

Tim Haskell, York Sewer District  
Richard Russell, Walker Wellington LLC  
Chris Milligan, Blue in Green

**Westminster's Approach to Increasing Sewer System  
Capacity and Cost-Effectively Lifting its Sewer  
Connection Moratorium – Inline Storage!**

Kevin Olson, Wright-Pierce  
Barry Yaceshyn, Wright-Pierce  
Joshua Hall, Town of Westminster, MA

**Alternative Project Delivery Allows New Wastewater  
System to Unlock Economic Opportunity for Rural  
Community**

Robert Polys, Woodard & Curran

## Session 29

**Residuals 2:  
Enhanced Concepts in  
Biosolids and Residuals  
Management**

*Moderators:*

Eric Spargimino, CDM Smith  
Ben Mosher, CDM Smith

## Simmons

**Enhanced Phosphorus Removal and Recovery  
Through Acid Phase Digestion and Brushite  
Precipitation**

Zhongtian Li, Centrisys Corporation - CNP Division  
Menachem Tabanpour, Nutrient Recovery & Upcycling  
LLC  
Hiroko Yoshida, Centrisys Corporation

**I Know You Like to Think your ish Don't Stink . . .**

Michael Hodge, Casella Organics  
Clark James, Casella Organics  
Patrick Ellis, Casella Organics

**Reducing Plant-available Phosphorus in Agricultural  
Soils with Water Treatment Residuals**

Michael Potash, Resource Management, Inc.  
Andrew Carpenter, Northern Tilth

**When Legislators Don't Realize What they Voted  
On—Biosolids, Wood Ash, and Paper Fiber**  
Shelagh Connelly, Resource Management, Inc.



Wednesday  
1:00–3:00 PM

## Session 30

### Asset Management 2: Technology

#### Moderators:

Dan Capano,  
Gannett Fleming Engineers  
Lori Carriero, Tighe & Bond

## Salon C/D

## Session 31

### Watershed Management: The Many Scales of Watershed Management—Case Studies from the River, Pond, and Site Perspectives

#### Moderators:

Steven Wolosoff,  
CDM Smith  
Sara Greenberg, GHD

## Provincetown

## Technical Sessions 28–31

### Practical Uses of Mobile Data Management and Computerized Maintenance Management Systems in Water and Wastewater Treatment Facilities.

Landon Kendricks, Woodard & Curran  
Alan Fabiano, Woodard & Curran

### Navigating SCADA from Design to Startup – Case Study of the Metropolitan District Wet Weather Expansion Project SCADA Implementation

Ryan Kowalski, Arcadis  
Scott LaRose, The Metropolitan District

### Agile Traffic Reporting During Construction: A Public Relations Solution Integrating GIS and Waze

Berkley Myers, Kleinfelder  
Tyson Ross, Kleinfelder

### Rome Wasn't Built in a Day...Neither Should a CMMS

Evan Walsh, Hazen and Sawyer  
Michael Stuer, Lowell Regional Wastewater Utility  
Aditya Ramamurthy, Hazen and Sawyer

### Lowell Water's Clean Stream Initiative for the Merrimack River

Gregory Coyle, Lowell Regional Wastewater Utility  
Steven Chapra, Tufts University  
Tim Devine, Hazen and Sawyer

### New NPDES Permit Limits for Nitrogen for Massachusetts in the Connecticut River Watershed—Truth or Fiction?

Susan Guswa, Woodard & Curran  
Paul Hogan, Woodard & Curran

### Integrated Resource Management

Cambria Ung, VHB  
Theresa McGovern, VHB

### Starting from the Bottom: Successfully Restoring an Urban Water Body

Lauren Swett, Woodard & Curran  
Nathaniel Smith, Portland Public Services

Monday  
8:30 AM – 4:30 PM

Session with authors  
1:30 – 3:30 PM

## 4th Floor

## Poster Board Displays

### Public Safety vs. Environmental Risk: Toxic Fire Fighting Foam Discharges in Drinking Water Areas (PFOS/PFOA)

Matthew Abraham, Tighe & Bond

### CM-at-Risk—A Great Construction Delivery Method to Facilitate Relationships Among the Owner, Designer and Constructor

Anthony Accardi, MWH Constructors

### Technological Advances in Wireless Collection Systems Flow Monitoring

Jim Caruso, Hach  
David Brown, Hach

### Intelligent Wastewater Pumps—The Next Pump Industry Breakthrough

Robert Domkowski, Xylem, Inc. - Flygt

### Maximizing Nitrogen Removal with Existing Infrastructure

John Fortin, Hazen and Sawyer

### Simple Equation for Complex Math: I + I = MS4

Nathan Michael, Weston & Sampson

### The Industrial Pretreatment System That Never Was,

Doug Stellato, Tighe & Bond

### Falmouth Case Study: Finding a Balance for a Centralized Sewer System in a Densely Populated Coastal Area

Sandra Tripp, GHD

### Alternatives for H<sub>2</sub>S Odor and Corrosion Control, With Case Study for Using Pure Oxygen

Ali Trolhier, ECO2

### Essential Contract Provisions in Agreements for Operations, Maintenance, and Construction of Modifications/Improvements of Resource Recovery Facilities

Teno West, West Group Law PLLC

### Settled Solids Collection—An Innovative Approach

David Whittle, WesTech Engineering

Tuesday  
9:00 AM – 3:30 PM

Session with authors  
12:30 – 2:00 PM

#### 4th Floor

*Coordinator:*  
Thomas Groves, NEIWPCC

*Moderators:*  
Jerry Hopcroft,  
Northeastern University  
Annalisa Onnis-Hayden,  
Northeastern University

## Undergraduate Student Poster Board Competition

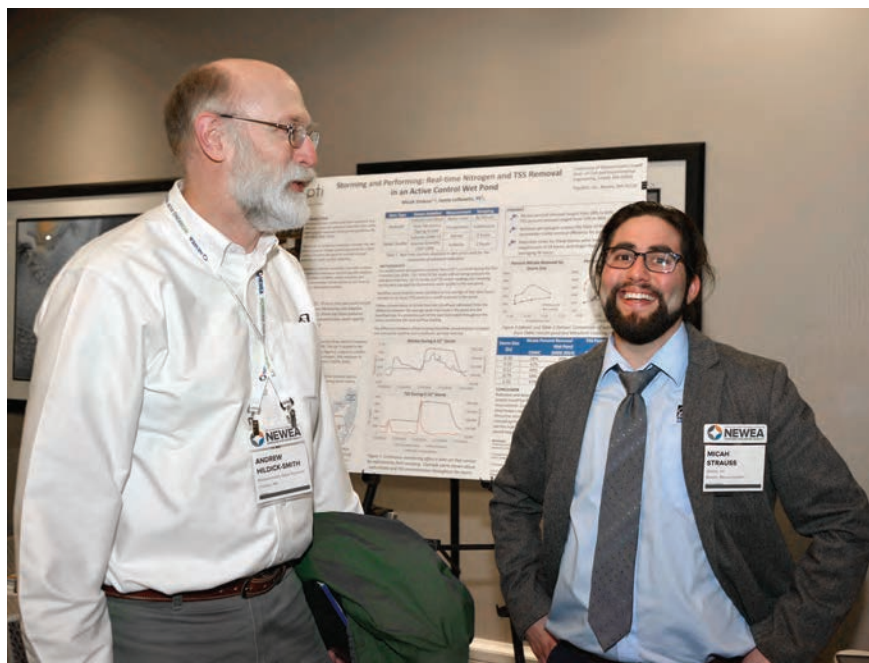
**Specific Oxygen Uptake Rate Research Project**  
Daniel Burger, University of Hartford

**Hydraulic Modeling and Flexibility in Engineering  
Design for the Panama Canal**  
Evelyn Grainger, Worcester Polytechnic Institute

**Rainwater Harvesting in El Cisne de Conchan**  
Abigail Ismail & Emilia Perez, Worcester Polytechnic  
Institute

**Use of Integrated Resource Management for  
Sustainable Land Development**  
Sarah MacClellan, Northeastern University

**State Point Analysis**  
Samantha Nyser, University of Hartford



Tuesday  
9:00 AM – 3:30 PM

Session with authors  
12:30 – 2:00 PM

#### 4th Floor

*Coordinator:*  
Thomas Groves, NEIWPCC

*Moderator:*  
Annalisa Onnis-Hayden,  
Northeastern University

## Graduate Poster Board Displays

**Impact of Oscillatoria and Nitrogen Availability on  
Oxygenic Photogranule Formation Under Static  
Conditions**

Megan Hann, University of Massachusetts, Amherst

**Nitrogen Flows in an Anaerobic Ammonium  
Oxidation (Anammox) Reactor**

Jennifer Lawrence, University of California, Berkeley

**Removal of Illicit Drugs in Wastewater Treatment  
Plants**

Jiayue Luo, University of Massachusetts, Lowell

**Unreliable Water Sources in The West Bank—  
Revealing the Challenges in Al-Walaja Village**

Julia Miller, Hiromi Hashimoto, Colleen O'Brien,  
Mariela Medina Castellanos, Andrea Becerra, Tufts  
University

**Water Chemistry Influences on Dissolution of Cdse/  
Zns Quantum Dots**

Pooya Paydary, Northeastern University

**Manufacture of Symmetric Thin-Film Polymer  
Composites Using Soft Lithography**

Akarapan Rojjanapinun, University of Massachusetts,  
Lowell

**Rethinking and Reforming EBPR Strategy—  
Concepts and Mechanisms of Side-Stream EBPR**

Nicholas Tooker, Northeastern University

**Calculating Diffusive Flux of Polychlorinated  
Biphenyls Between Sediments and Water Column  
from New Bedford Harbor Using Polyethylene  
Passive Samplers**

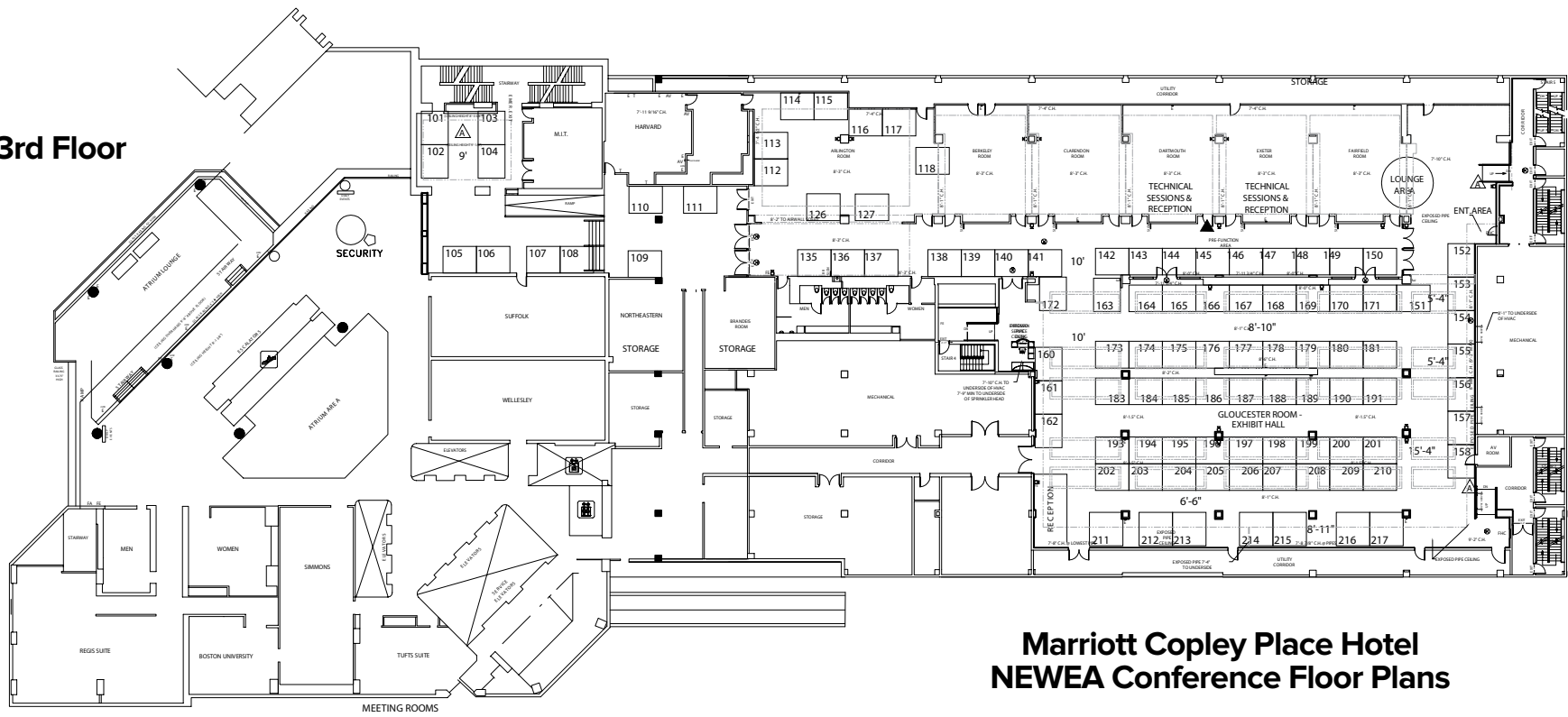
Alice Peiying Wang, Northeastern University

# Moderators

SESSION	MODERATOR	AFFILIATION
1	Rita Fordiani	Kleinfelder
1	Ivonne Hall	State of Connecticut DEEP
2	Peter Garvey	Dewberry
2	Kara Johnston	CDM Smith
3	Helen Gordon	Environmental Partners Group
3	Chuck Pike	Black & Veatch
4	Matt Formica	AECOM
4	Lauren Hertel	Stantec
5	Tommy Chase	Peer Consultants
5	Renie Jesanis	MWRA
6	Amanda Lade	AECOM
6	Kate Roosa	Woodard & Curran
7	David Bedoya	Stantec
7	Vinta Varghese	CH2M
8	Kevin Garvey	CDM Smith
8	Laura Nolan	Kleinfelder
9	Tracy Chouinard	Brown and Caldwell
9	Natalie Sierra	Brown and Caldwell
10	David Michelsen	South Essex Sewerage District
10	Dede Vittori	MWRA
11	Ian Catlow	Tighe & Bond
11	Kurt Mailman	Fuss & O'Neill
12	Tim Vadney	Wright-Pierce
12	Lindsey Shields	Wright-Pierce
13	John Adie	State of New Hampshire DES
13	Tom Hazlett	Woodard & Curran
14	Courtney Eaton	Woodard & Curran
14	Sandy Tripp	GHD
15	Dennis Sullivan	National Water Main Cleaning Co.
15	Mark Thompson	Kleinfelder
16	Georgine Grissop	CDM Smith
16	Peter von Zweck	CH2M
17	Susan Guswa	Woodard & Curran
17	Nick Tooker	Northeastern University
18	Natalie Pommersheim	Environmental Partners Group
18	Vonnie Reis	City of Framingham, MA
19	Shelagh Connelly	Resource Management, Inc.
19	Elena Proakis Ellis	City of Melrose, MA
20	David Aucoin	Narragansett Bay Commission
20	Patty Chesebrough	Weston & Sampson
21	Lenny Young	MWRA
21	Danielle Gallant	CDM Smith

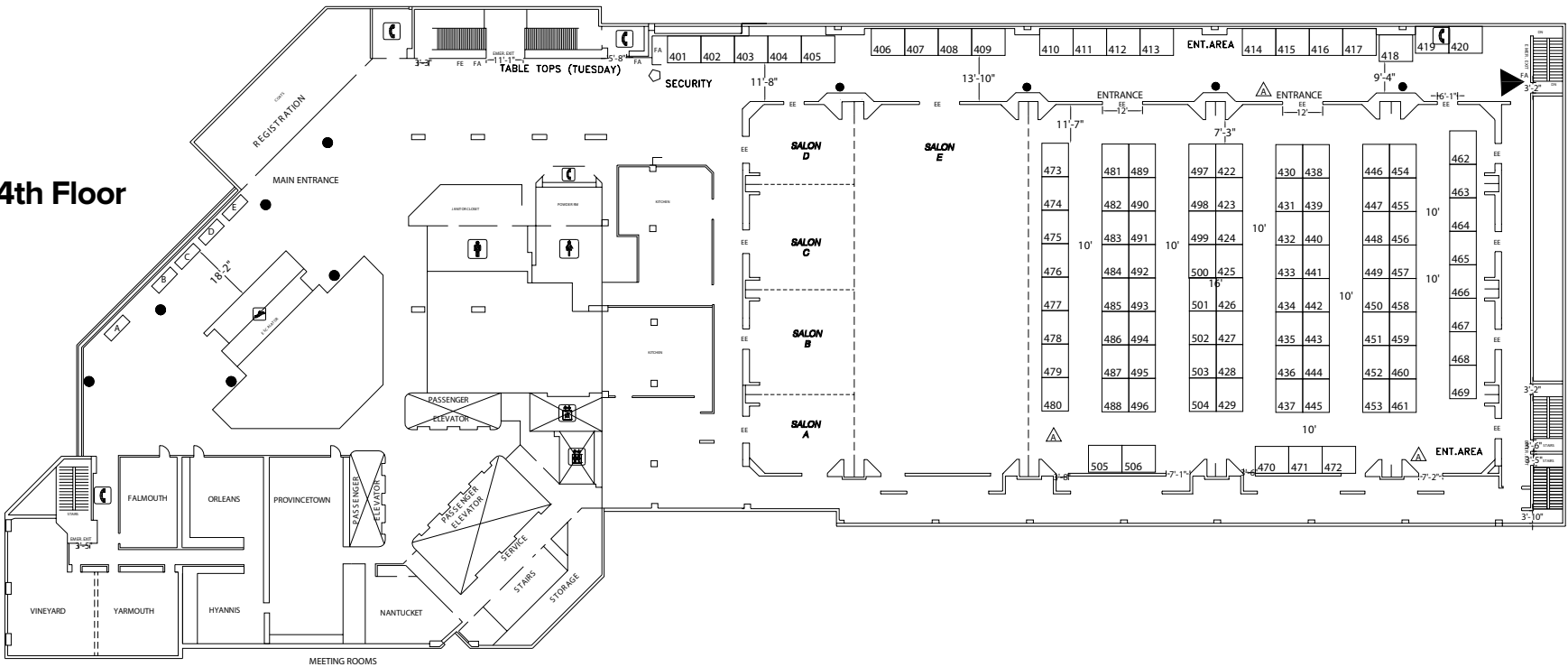
SESSION	MODERATOR	AFFILIATION
22	Jeff Cantwell	Flow Assessment Services
22	Steven Perdios	Dewberry
23	Frank Occhipinti	Weston & Sampson
23	William Paulitz	City of Peabody, MA
24	John Adie	State of New Hampshire DES
24	David VanHoven	Stantec
25	Michael Curtis	Quantum Biopower
25	Sarah White	UniFirst Corporation
26	Kate Edwards	Arcadis
26	Maria Rose	City of Newton, MA
27	David Press	Tighe & Bond
27	Lindsey Shields	Wright-Pierce
28	John Murphy	Stantec
28	Shawn Syde	CDM Smith
29	Ben Mosher	CDM Smith
29	Eric Spargimino	CDM Smith
30	Dan Capano	Gannett Fleming Engineers
30	Lori Carriero	Tighe & Bond
31	Sara Greenberg	GHD
31	Steven Wolosoff	CDM Smith

### 3rd Floor



## Marriott Copley Place Hotel NEWEA Conference Floor Plans

### 4th Floor





# Presenters

PRESENTER	AFFILIATION	SESSION NO.
Tracy Adamski.....	Tighe & Bond.....	26
Ron Amberger.....	Modern Energy, LLC.....	11
Patrick Antle.....	Protein Matrix.....	25
Michael Armes.....	ADS Environmental Services.....	28
Tom Arn.....	Raftelis Financial Consultants.....	8
Melissa Arnot.....	Kenosha Water Utility.....	24
Greg Baatrup.....	Fairfield-Suisun Sewer District, CA.....	14
Stephanie Baldino.....	Town of Plainfield, CT.....	17
Sara Barbuto.....	Integral Consulting Inc.....	19
James Barnard.....	Black & Veatch.....	3
Julie Barown.....	Orenco Systems, Inc.....	11
Kevin Bates.....	JWC Environmental.....	15
Wayne Bates.....	Tighe & Bond.....	25
David Bayless.....	Ohio University.....	24
Greg Bazydola.....	Arcadis.....	1
Nancy Kelley Beaton.....	CDM Smith.....	22
Ned Beecher.....	NEBRA.....	19
Samuel Bell.....	GZA GeoEnvironmental, Inc.....	27
Christina Befumo.....	Davies Career and Technical High School.....	21
Tom Bergeron.....	Town of Montague, MA.....	6
Lauren Bergman.....	Tighe & Bond.....	3
Joerg Blischke.....	Black & Veatch.....	14
Steve Bolles.....	Process Energy Services.....	10
Christopher Bone.....	Tighe & Bond.....	10
Mark Boner.....	WesTech Engineering.....	26
Vanessa Borkowski.....	Stantec.....	6
Sarah Bounty.....	Tighe & Bond.....	26
Larry Bouvier.....	Fuss & O'Neill.....	20
Alexandra Bowen.....	CDM Smith.....	13
David Bowen.....	Wright-Pierce.....	1, 13
Michael Brady.....	Stantec.....	2
Andrea Braga.....	Geosyntec Consultants.....	18
William Branton.....	Town of Scituate, MA.....	6
Jeanette Brown.....	Manhattan College.....	24
Janet Butler.....	Davies Career and Technical High School.....	21
Stephen Calabro.....	Stantec.....	2
Kevin Campanella.....	Burgess & Niple, Inc.....	16
Brian Canterbury.....	AECOM.....	1
Michael Carle.....	Town of Hampton, NH.....	12
Andrew Carpenter.....	Northern Tilth.....	29
Cynthia Castellon.....	Tighe & Bond.....	10
Steven Chapra.....	Tufts University.....	31
Amod Choudhary.....	Worcester Polytechnic Institute.....	5
Elisabeth Cianciola.....	Charles River Watershed Association.....	26

PRESENTER	AFFILIATION	SESSION NO.
Kevin Cini.....	City of Groton, CT.....	12
Richard Claytor.....	Horsley Witten Group.....	26
Jeff Colby.....	Town of Yarmouth, MA.....	3
Stephanie Collins.....	Tighe & Bond.....	25
Dave Commons.....	Hach.....	24
Shelagh Connelly.....	Resource Management, Inc.....	29
Eilish Corey.....	CDM Smith.....	22
Cheri Cousens.....	Greater Lawrence Sanitary District.....	9
Chad Cox.....	GZA GeoEnvironmental, Inc.....	27
Gregory Coyle.....	Lowell Regional Wastewater Utility.....	31
Scott Craig.....	CDM Smith.....	22
Stephen Crane.....	Town of Longmeadow, MA.....	26
Sarita Croce.....	Town of Merrimack, NH.....	19
Michael Crowley.....	Environment One Corporation.....	11
Gregory Currey.....	Tetra Tech, Inc.....	4
Michael Curry.....	Wright-Pierce.....	13
Bob Dabkowski.....	Hach.....	24
Clara Dahill.....	U.S. Coast Guard Academy.....	11
Justin deMello.....	Woodard & Curran.....	2, 24
Kevin DePerri.....	MWRA.....	14
Dominic DeSalvo.....	Bergen County Utilities Authority.....	4
Steve Devan.....	Oneida County, NY.....	28
Tim Devine.....	Hazen and Sawyer.....	31
James Donison.....	Town of Hooksett.....	5
Alexandra Doody.....	CDM Smith.....	10
Mike Dougherty.....	Lystek International.....	9
David Duest.....	MWRA.....	14
James Dunbar.....	Lystek International.....	14
Patrick Dunlap.....	Black & Veatch.....	3
Chris Dwinal.....	Wright-Pierce.....	23
Kathryn Edwards.....	Arcadis.....	18
Patrick Ellis.....	Casella Organics.....	29
David Elmer.....	Weston & Sampson.....	25
Nicholas Erickson.....	City of Fitchburg, MA.....	18
Alan Fabiano.....	Woodard & Curran.....	30
Caitlin Fedio.....	Hazen and Sawyer.....	7
Chris Feeney.....	Stantec.....	22
Paul Ferland.....	City of Fall River, MA.....	1, 22
Robert Fischer.....	City of South Burlington, VT.....	4
Corinna Fleischmann.....	U.S. Coast Guard Academy.....	11
Karen Fligger.....	US EPA.....	4
Kent Fong.....	Worcester Polytechnic Institute.....	5
Matthew Formica.....	AECOM.....	13
Gerhard Forstner.....	Centrisys Corporation - CNP Division.....	24, 29
Peter Frick.....	ADS Environmental Services.....	28
Robert Frost.....	Hazen and Sawyer.....	17
Kenneth Gagnon.....	City of Westfield, MA.....	10
Sarah Galst.....	Hazen and Sawyer.....	17

PRESENTER	AFFILIATION	SESSION NO.
Matthew Gamache.....	CDM Smith .....	22
Jeffrey Gamelli .....	City of Westfield, MA .....	10
Luis Garcia.....	U.S. Coast Guard Academy .....	11
Seth Garrison.....	Raftelis Financial Consultants .....	8
Andrew Goldberg.....	Kleinfelder .....	16
Peter Goodwin .....	Ted Berry Company .....	21
Robert Gorham.....	MWRA .....	14
Vera Gouchev.....	Hazen and Sawyer .....	9
Justin Gould.....	Stantec .....	16
Ryan Graham .....	CDM Smith .....	6
Evelyn Grainger .....	Worcester Polytechnic Institute .....	5
Robert Grasis.....	Town of Vernon, CT .....	27
Sara Greenberg.....	GHD .....	15
Sean Greig .....	Town of Newmarket, NH.....	13
Andrew Grota .....	Wright-Pierce .....	13
Erik Grotton.....	Blueleaf Inc. ....	13
Philip Guerin .....	MA Coalition for Water Resources Stewardship .....	4
Susan Guswa.....	Woodard & Curran .....	31
Patrick Gwinn.....	Integral Consulting.....	19
Fred Haffty .....	City of Haverhill, MA .....	15
Joshua Hall.....	Town of Westminster, MA .....	28
Samantha Halloran.....	Lystek International.....	9
Walid Harrouch .....	New York City DEP.....	26
Kattie Hartwell.....	Wright-Pierce .....	23
Kenneth Harwood .....	Town of Ayer, MA.....	12
Tim Haskell.....	York Sewer District.....	28
Troy Heimerl .....	JWC Environmental.....	15
Zach Henderson .....	Woodard & Curran .....	18
Clark Henry .....	Environment One Corporation.....	11
Michael Hodge.....	Casella Organics.....	29
Paul Hogan.....	Woodard & Curran .....	31
David Horowitz.....	Tighe & Bond.....	20
John Jackman .....	Hoyle, Tanner & Associates.....	16
Rachel Jacobson .....	WilmerHale.....	19
Jonnas Jacques.....	Kleinfelder .....	1
Clark James .....	Casella Organics.....	29
Charlie Jewell.....	Boston Water and Sewer Commission .....	18
Greg Johnson.....	City of Burlington, VT .....	16
Mark Johnson.....	Upper Blackstone Water Pollution Abatement District .....	24
Rick Johnson .....	Clearas Water Recovery .....	24
Jonas Kazlauskas .....	Town of Bridgewater MA.....	2
Kathryn Kelly.....	Narragansett Bay Commission .....	22
Landon Kendricks.....	Woodard & Curran .....	30
Paul Knowles .....	Hazen and Sawyer .....	9
Ryan Kowalski .....	Arcadis .....	30
Gretchen Krause.....	U.S. Coast Guard Academy .....	11
Rishabh Kumar .....	Indian Institute of Technology-Mandi.....	5
Jonathan Kunay .....	CDM Smith .....	6

PRESENTER	AFFILIATION	SESSION NO.
Scott LaRose.....	The Metropolitan District.....	30
Kayla Larson.....	Tighe & Bond.....	23
Steve Lauria.....	Woodard & Curran .....	18
Thomas Lauro.....	Westchester County Dept. of Environmental Facilities .....	9
Zhongtian Li.....	Centrisys Corporation - CNP Division .....	24, 29
Rod Lovely.....	Asstec.....	16
Pallavi Mande .....	Charles River Watershed Association.....	26
Kenneth Mason.....	City of Cranston, RI .....	13
William McConnell.....	CDM Smith .....	17
Jeffrey McDonald .....	Fuss & O'Neill .....	17
Wayne McFarland.....	GHD .....	14
Theresa McGovern .....	VHB.....	31
Keith McHale .....	Environment One Corporation.....	11
Lisa McIntosh.....	Woodard & Curran .....	19
Allison McMordie.....	Tighe & Bond.....	23
Frederick McNeill .....	City of Manchester, NH.....	8
Clair Meehan .....	Tetra Tech, Inc. ....	4
Randy Melanson .....	Worcester Polytechnic Institute .....	5
Kevin Menning .....	Hach.....	24
David Mercier .....	Underwood Engineers.....	27
Jeff Mercer .....	Wright-Pierce .....	27
Mike Miller .....	CHA Consulting, Inc.....	22
Chris Milligan .....	Blue in Green.....	28
Brian Mitchell .....	WesTech.....	26
Marc Moccio .....	Wright-Pierce .....	15
Todd Moline .....	MWH Constructors.....	22
Eliza Morrison .....	Wright-Pierce .....	6
Benjamin Mosher.....	CDM Smith .....	9
Justin Motta.....	Stantec .....	6
Fred Mueller.....	Tighe & Bond.....	27
Kerry Muenchow.....	Worcester Polytechnic Institute .....	24
Christopher Muller.....	Brown and Caldwell.....	14
Bill Mullin.....	Formerly of Lystek International Inc .....	14
Dan Murphy .....	City of Easthampton, MA .....	8
John Murphy.....	MassDEP.....	8
Berkley Myers.....	Kleinfelder .....	30
Elizabeth Nakagawa .....	U.S. Coast Guard Academy .....	11
Randy Neprash .....	Stantec .....	18
Maureen Neville.....	CDM Smith .....	10, 13
Laura Nolan.....	Kleinfelder .....	2
David Norton .....	City of Brockton, MA.....	17
Kevin Olson.....	Wright-Pierce .....	15, 28
Victor Olson .....	Stantec .....	2
Russell Parkman .....	Ramboll Environ.....	25
Jon Pearson .....	AECOM.....	13
Brian Pena .....	City of Lawrence, MA.....	24
Jeff Pennell .....	SUEZ .....	13
Cris Perez .....	Kleinfelder .....	16

PRESENTER	AFFILIATION	SESSION NO.
Andrew Perham	The Metropolitan District	1
John Perrotti III	Fuss & O'Neill	20
David Peterson	Kleinfelder	1
Matthew Pitta	CDM Smith	17
Robert Polys	Woodard & Curran	28
Michael Potash	Resource Management, Inc.	29
William Potochniak	Tighe & Bond	25
Coenraad Pretorius	CDM Smith	10
Dustin Price	Portland Water District	21
Milton Puryear	Brooklyn Greenway Initiative	7
Aditya Ramamurthy	Hazen and Sawyer	30
Corey Repucci	Weston & Sampson	25
Tom Ritchie	Kleinfelder	2
Sharon Rivard	NHDES	10
Virginia Roach	CDM Smith	26
Betty Anne Rogers	Warwick Sewer Authority	21
Daniel Roop	Tighe & Bond	15
Joseph Rock	Town of Edgartown, MA	12
Tyson Ross	Kleinfelder	30
Steven Roy	Ramboll Environ	7
Anastasia Rudenko	GHD	15
Richard Russell	Walker Wellington LLC	28
Sakshki Saini	Society for Participatory Research in Asia	5
Daniel Salisbury	Worcester Polytechnic Institute	5
Randal Samstag	Randal W. Samstag Civil and Sanitary Engineer	10
Karla Sangrey	Upper Blackstone Water Pollution Abatement District	13
Alex Santos	Arcadis	4, 25
Salvatore Scapelito	New York City DEP	17
Josh Schimmel	Springfield Water and Sewer Commission	2
Rachel Schnabel	Fuss & O'Neill	17
Amy Schofield	Boston Water and Sewer Commission	1, 18
Robert Sharp	Hazen and Sawyer	9
Brian Shea	Stantec	16
Tim Shea	Waite Consulting	14
Nicholas Shonka	Integral Consulting	19
Matt Shuman	Town of Watertown, MA	26
Cole Sigmon	City of Boulder, CO	10
William Simcoe	City of Albany, NY	22
Scott Simpson	OptiRTC	22
Andrew Smith	Wright-Pierce	1
Benjamin Smith	NEIWPCC	8
Nathaniel Smith	Portland Public Services	31
Danielle Spicer	Green International Affiliates, Inc	7
Daniel Stapleton	GZA GeoEnvironmental, Inc.	27
Trine Stausgaard Munk	Ramboll Environ	7
Mark Steichen	Black & Veatch	3
Michael Stein	Wright-Pierce	6
Michael Stuer	Lowell Regional Wastewater Utility	16, 30

PRESENTER	AFFILIATION	SESSION NO.
James Sullivan	AECOM	1
Terrance Sullivan	City of Fall River, MA	1
Mark Supplee	CH2M	17
Lauren Swett	Woodard & Curran	31
Derek Sykes	Amgen (seeking permission)	25
Lindsey Sylvester	Wright-Pierce	23
Menachem Tabanpour	Nutrient Recovery & Upcycling LLC	29
Edward Tally	City of Cranston, RI	13
David Thompson	Town of Edgartown, MA	12
Nick Tooker	Northeastern University	3
Mark Toussaint	Eversource Energy	10
Hugh Tozer	Woodard & Curran	5
Thomas Tyler	The Metropolitan District	1
Cambria Ung	VHB	31
Carl Veilleux	The Metropolitan District	17
J.J. Von Himmelreich	Blue in Green	28
Evan Walsh	Hazen and Sawyer	30
Michael Walsh	CDM Smith	9
Bin Wang	GZA GeoEnvironmental, Inc.	27
Robert Ward	City of Haverhill, MA	15
Jason Waterbury	The Metropolitan District	22
Richard Weare	Greater Lawrence Sanitary District	9
Austin Weidner	Tighe & Bond	6, 27
Victoria Weiss Yildirim	Dewberry	7
Ethan Wenger	MWRA	9
Susan West	U.S. Coast Guard Academy	11
Pamela Westgate	Kleinfelder	8
Brian Whitaker	O'Brein & Gere	28
Melody White	Hach	24
Ed Wicklein	Carollo Engineers	10
Matthew Williams	WesTech Engineering, Inc.	26
Raymond Willis	Onsite Engineering, Inc.	4
Charles Wilson	Hazen and Sawyer	7, 30
David Wright	Weston & Sampson	20
David Wright	Weston & Sampson	20
Barry Yaceshyn	Wright-Pierce	28
Hiroko Yoshida	Centrisys Corporation - CNP Division	24, 29
David Young	CDM Smith	3
Mark Young	Lowell Regional Wastewater Utility	16
Christian Zeigler	Protein Matrix	25
Sharon Zelmanowitz	U.S. Coast Guard Academy	11
Allison Zeoli	Arcadis	17

# Annual Business Meeting

MONDAY, JANUARY 22  
8:00–8:30 AM

Respectfully Submitted by  
the NEWEA Nominating  
Committee:  
Brad Moore (Chair),  
Ray Willis,  
Matt Formica,  
Marylee Santoro,  
Virgil Lloyd  
All nominees have  
indicated their willingness  
to serve.

## 2018 Officer Nominations

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 state of officers before the membership at the NEWEA Annual Business Meeting on January 22, 2018:

- Vice President – Jennifer Kelly Lachmayr
- Treasurer – Priscilla Bloomfield (3rd year)
- Council Director – Communications – Meg Tabacsko
- Council Director – Outreach – Justin Skelly
- WEF Delegate – Susan Guswa
- Rhode Island Director – Scott Goodinson
- Vermont Director – Chris Robinson

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

- President – Janine Burke-Wells
- President-Elect – Raymond Vermette
- Past President – James Barsanti

The remaining incumbents are fulfilling unexpired terms:

- WEF Delegate – Susan Sullivan (through WEFTEC 2018)
- WEF Delegate – Fred McNeill (through WEFTEC 2019)
- WEF Delegate – Matt Formica (through WEFTEC 2020)
- Council Director – Meeting Management – Elena Proakis Ellis (3rd year)
- Council Director – Treatment, Systems Operations, and Management – Marylee Santoro (3rd year)
- Council Director – Collection Systems, and Water Resources – John Digiacoimo (2nd year)
- Maine Director – Clayton “Mac” Richardson (3rd year)
- New Hampshire Director – Sean Greig (3rd year)
- Connecticut Director – Virgil Lloyd (2nd year)
- Massachusetts Director – Justin DeMello (2nd year)

Treasurer Report—2017 Balance Sheet

Adjourn—James Barsanti, NEWEA President

# Guest Program

MONDAY, JANUARY 22

TUESDAY, JANUARY 23

## Exhibit Hall Reception

4:30-6:30 PM • 3rd Floor Exhibit Area

## Escape Into Dreamland

9:15 AM • Meet in lobby

Pack your bags and get ready for an adventurous day. We're going on our very own mystery tour. We will ESCAPE into a DREAMLAND world where we will meet history face to face. Then experience lunch at a long-standing eatery with its very own history.

Things to pack for this trip:

- Camera—plenty of opportunities for selfies
- Your thinking cap
- Historical knowledge
- Deciphering skills
- A sassy attitude
- And a big smile

So be ready for a fun packed day full of twists and turns.

Very short outside walking. Please dress accordingly.

## Exhibit Hall Reception

4:00–6:00 PM • 4th Floor Exhibit Area



# Exhibitors

**3M** **Booth(s): E**  
 3M PPE Safety Solutions: From the most basic to the most specialized needs, 3M offers the safety protection your workers need most, so everyone can perform at their best.  
 Contact: Lorrie Maurer, 3M Center, St. Paul, MN 55144, tel: 774-287-1367, lmaurer@mmm.com, www.3m.com/workersafety

**ABBA Pump Parts & Service** **Booth(s): 111**  
 ABBA PARTS specializes in manufacturing replacement pumps, parts and assemblies to fit or replace most brand name pumps used in municipal water & wastewater pumping facilities. Our replacement pumps and parts will exceed your expectations for quality, lead time, reliability and cost savings.  
 Contact: Wendy Jamison, 5370 Munro Court, Burlington, ON L7L 5N8, tel: 800-268-5142, wendy\_j@abbaparts.com, www.abbaparts.com

**ADS Environmental Services (BRONZE SPONSOR)** **Booth(s): 437, 445**  
 ADS offers comprehensive flow information, from real-time flow data to temporary flow monitoring reports. ADS also offers level monitoring to provide early warning of preventable blockages - preventing overflows and optimizing sewer cleaning.  
 Contact: Matthew Brown, 51 Wentworth Ave, Ste 15, Londonderry, NH 03053, tel: 256-656-6385, mbrown3@idexcorp.com, www.adsenv.com

**Advanced Drainage Systems, Inc.** **Booth(s): 172**  
 ADS has established a reputation for leadership in the storm drainage, sanitary sewer and stormwater treatment/management industries by staying committed to the development of state-of-the-art products and services that set industry standards and help solve industry challenges.  
 Contact: Aaron Cheever, 58 Wyoming St, Ludlow, MA 01056, tel: 978-302-0650, aaron.cheever@ads-pipe.com, www.ads-pipe.com

**AERO-Mod** **Booth(s) 480**  
 Custom-engineered activated sludge plants for advanced BNR with unparalleled ease of operation and maintenance and no moving parts in the water.  
 Contact: Brooks Newbry, 7927 U.S. Highway 24, Manhattan, KS 66502, tel: 480-415-8022, brooks@aeromod.com, www.aeromod.com, Rep: Atlantic Fluic Technology, Inc

**Airvac- A brand of Aqseptence Group** **Booth(s): 500**  
 Airvac, a brand of Aqseptence Group, has provided cost-effective solutions for existing communities and new land developments for over 45 years. Airvac manufactures vacuum valves, valve pits and vacuum station equipment, as well as assists with the design, construction and operation of vacuum sewer  
 Contact: Jesse Nowacki, 4217 N Old US Highway 31, Rochester, IN 46975, tel: 862-229-4085, jesse.nowacki@aqseptence.com, www.aqseptence.com

**Allied Powers LLC** **Booth(s): 189**  
 Our product employs the latest in Electric Muscle Stimulation technology. With a fully rechargeable lithium battery, our devices are portable and easy to use.  
 Contact: Josh Greenman, 9255 W Russell RD #177, Las Vegas, NV 89148, alliedpowersllc@gmail.com

**AllMax Software, Inc. (BRONZE SPONSOR)** **Booth(s): 147**  
 Operations & maintenance data management and reporting software for the water and wastewater industries.  
 Contact: Doug Klima, 911 South Main St, Kenton, OH 43326, tel: 800-670-1867, sales@allmaxsoftware.com, www.allmaxsoftware.com

**Amphidrome** **Booth(s): 401-406**  
 The Amphidrome® system is an affordable, energy efficient, customized onsite wastewater treatment solution designed to fit your site constraint and regulatory requirements. It can be customized to provide an effluent low in ammonia, total nitrogen (TN), phosphorus and/or a re-use quality effluent for irrigation  
 Contact: Andrew McBrearty, 273 Weymouth St, Rockland, MA 02370, tel: 781-982-9300, andrewmcbrearty@frmahony.com, Rep: F.R. Mahony & Associates, Inc.

**ANUA,** **Booth(s) 482**  
 ANUA provides Airashell odor biofiltration for municipal, industrial, & residential applications.  
 Contact: Casey Davis, 4106 Bernau Ave, Greensboro, NC 27407-4252, tel: 336-547-9338, casey.davis@anuainternational.com, Rep: Wescor Associates

**Aqua Solutions, Inc. (GOLD SPONSOR)** **Booth(s): 452, 453, 460, 461, 469**  
 Aqua Solutions, Inc. represents leading manufacturers of municipal and industrial water/wastewater treatment equipment in the six New England states. Our experienced team provides practical and cost effective solutions for our customers. From conceptual design, equipment selection through installation,  
 Contact: James Deluca, 154 W Grove St, Ste D, Middleboro, MA 02346-1484, tel: 508-947-5777, jdeluca@aquasolutionsinc.net, www.aquasolutionsinc.net

**AquaTurbo Systems, Inc.,** **Booth(s) 410-413 & 473-474 & 481-482 & 489-490**  
 AquaTurbo Systems Inc. produces fixed low speed bottom conical aerator/mixers, floating surface aerators, fixed low speed surface aerators, screw-peller technology combines high efficiency with gentle action and complete mixing. Foam breakers & Decanters.  
 Contact: Ivan Longueville, 1754 Ford Ave, Springdale, AR 72764, tel: 479-927-1300, ivan.longueville@aquaturbo.com, Rep: Wescor Associates

**Aquionics Inc.** **Booth(s): 401-406**  
 Aquionics has a full product range of UV Disinfection options (MP & LPHO closed vessel & new OpenLine style) for most municipal applications. Our designs are confirmed by 3rd party validations (NWRI, US EPA, UVDGM).  
 Contact: Bruce Stevens, 4215 Stuart Andrew Blvd., Suite E, Charlotte, NC 28217, tel: 980-256-5700, bruce.stevens@aquionics.com, Rep: F.R. Mahony & Associates, Inc.

**Aries Industries, Inc.** **Booth(s): 160**  
 Aries Industries, Inc., manufactures inspection and rehabilitation equipment for underground infrastructure professionals. Sewer pipeline equipment includes video cameras and systems, mainline and lateral grouting equipment, and custom work vehicles. Video cameras provide long service  
 Contact: John Kudis, 550 Elizabeth St, Waukesha, WI 53186, tel: 262-370-5520, john.kudis@ariesindustries.com, www.ariesindustries.com

**ASA Analytics,** **Booth(s) 413**  
 ASA Analytics Chemscan Process Analyzers are individual instruments & complete systems for automatic analysis of nitrate, nitrite, ammonia, phosphate, oxidants, organics, metals, and dissolved chemicals at single or multiple process wastewater locations.  
 Contact: Tony Freed, 2325 Parklawn Dr. Ste I, Waukesha, WI 53186-2937, tel: 229-516-0570, tony@chemscan.com, Rep: Wescor Associates

**Asahi/America, Inc. Booth(s): 435, 436**  
 Asahi/America is the premiere provider of thermoplastic fluid flow solutions for industrial, commercial and environmental applications. Our Chem Proline Advance PE piping system is ideal for chemical handling in water treatment applications. Asahi/America also carries a complete line of valves and actuation,  
 Contact: Joe Durning, 655 Andover St, Lawrence, MA 01843, tel: 781-321-5409, asahi@asahi-america.com, www.asahi-america.com

**Associated Electro-Mechanics, Inc.** **Booth(s): 419**  
 One Stop Industrial Industrial Service and Sales Facility.  
 Contact: Mark DuBois, 185 Rowland St, Springfield, MA 01107, tel: 800-288-4276, mdubois@aemservices.com, www.aemservices.com

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**Atlantic Fluid Technologies, Inc. Booth(s): 478, 479, 480, 487, 488, 495, 496, 505, 506**

Manufacturing representative for New England, specializing in process and flow control equipment: circular and rectangular clarifiers, mechanical screens and presses, CSO equipment, turbo blowers, fabricated, cast slide gates, flood control, tank covers, control valves, odor control, hydraulic actuators.

Contact: Simon Moseley, 354 West Boylston St., Ste 221, West Boylston, MA 01583-2342, tel: 508-755-0440, [simon@aftinc.com](mailto:simon@aftinc.com), [www.aftinc.com](http://www.aftinc.com)

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**Atlas Copco, Booth(s) 474**

Atlas Copco is an industry-leading global manufacturer of compressed air technology and service support. ZL Lobe Blowers, ZS Screw Blowers, ZB Mag Bearing Turbo Blowers, ZM Multi-Stage Blowers showcase a wide range of energy efficient low-pressure air solutions, ideal for the wastewater industry.

Contact: Paul Petersen, 3042 Southcross Blvd, Ste 102, Rock Hill, SC 29730, tel: 803-415-2564, [petersen@us.atlascopco.com](mailto:petersen@us.atlascopco.com), Rep: Wescor Associates

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**Autrol America Booth(s): 423**

Autrol America: Brings an impressive line of very competitive smart process transmitters for differential pressure, flow, pressure and temperature. Hart programmable and/or complete configurable with built in pushbutton programming. 100:1 turndown.

Contact: James Birkenberger, JWB Company, 65 August Ave, Wolcott, CT 06716, tel: 203-879-6959, [jamie@jwbcompany.net](mailto:jamie@jwbcompany.net), [www.jwbcompany.net](http://www.jwbcompany.net), Rep: JWB Company

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**BAU Hopkins Inc. Booth(s) 422-425, 430-433**

BAU/HOPKINS is a Multi-Man Manufacturer's Technical Representation serving the New England Marketplace. We specialize in Chemical Feed Products & Systems, Fluid Process Systems along with the instrumentation required to monitor these processes.

Contact: Alan or Bob Hopkins, 310 South St, Plainville, MA 02760, Tel: 508-699-9300, [ahopkins@bauhopkins.com](mailto:ahopkins@bauhopkins.com), [www.bauhopkins.com](http://www.bauhopkins.com)

Category: Flow Monitoring, Instrumentation, Controls and SCADA, Process Equipment and Systems, Pumps, Tank Components and Coating Systems

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**BDP Industries, Inc. Booth(s): 164**

Industry leader in belt presses, GBT's, RDT's, and screw presses.

Contact: Dan Fronhoffer, PO Box 118, Greenwich, NY 12834, tel: 518-527-5417, [Dan@bdpindustries.com](mailto:Dan@bdpindustries.com), Rep: David. F. Sullivan & Assoc., Inc.

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**Blake Equipment Co. Booth(s): 466, 467**

Blake Equipment is a full service manufacturer's representative of pumps, controls, and pump station packages and odor control. We can provide design assistance to provide Peak Performance Solutions for water and wastewater projects. We represent HOMA pumps, Cornell, Myers, Goulds, Hellan Strainers,

Contact: Ray Bahr, 4 New Park Rd, East Windsor, CT 06068, tel: 860-986-1072, [ray.bahr@bghusa.com](mailto:ray.bahr@bghusa.com), [www.blakeequip.com](http://www.blakeequip.com)

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**BMC Corp. (CONF. SPONSOR) Booth(s): 161**

Our experienced crews are installing CIPP lateral connection repairs LCR, a Trelleborg product, along with point repairs. This unique equipment is a combined with cameras with a sophisticated controller that gives the operator precise placement, reducing error in the pipe.

Contact: Richard Corsetti II, PO Box 60, Pinehurst, MA 01866, tel: 781-273-0398, [rich@pipejetter.com](mailto:rich@pipejetter.com), [www.pipejetter.com](http://www.pipejetter.com)

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**Boyson and Associates, Inc. Booth(s): 497, 498, 499**

Boyson and Associates, Inc is a process based water and wastewater Representative Company and was founded in 1985. We serve the Plant Operators and Consultants in New England involved in municipal, commercial and industrial markets.

Contact: Brian Boyson, 2 Little Tree Rd, Medway, MA 02053, tel: 508-889-6371, [brianjboyson@outlook.com](mailto:brianjboyson@outlook.com)

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**Brentwood Industries Booth(s): 152-158 & 181**

Parkson is a supplier of equipment and solutions for industrial and municipal wastewater applications. Parkson designs, engineers and assembles products that provide advanced screening, biological, filtration and biosolids management solutions.

Contact: Peter Kibble, 192 Pleasant St, Rockland, MA 02370, tel: 781-421-2600, [pkibble@themahercorp.com](mailto:pkibble@themahercorp.com), [www.themahercorp.com](http://www.themahercorp.com), Rep: The Maher Corporation

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**Cabot Norit Activated Carbon Booth(s): 414**

Cabot Norit Activated Carbon is the world's largest & most experienced producer of activated carbon. We offer a full range of products, services & technical support to ensure that you receive the right products & solutions.

Contact: Howie Yerger, 3200 University Ave, Marshall, TX 75670, tel: 201-248-0697, [howard.yerger@cabotcorp.com](mailto:howard.yerger@cabotcorp.com), [www.cabotcorp.com](http://www.cabotcorp.com)

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**Calgon Carbon UV Booth(s) 413**

Calgon Carbon UV Technologies Provides leading edge application of UV disinfection and UV oxidation technologies for drinking water, wastewater, groundwater, and water reuse.

Contact: Casey Theys, 3000 GSK Dr, Moon Township, PA 15108, tel: 412-576-0103, [ctheys@calgoncarbon.com](mailto:ctheys@calgoncarbon.com), Rep: Wescor Associates

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**Carl Lueders & Company Booth(s): 415**

Instrumentation & Controls.

Contact: Mark Lueders, 258 Main St, Unit #6, Medfield, MA 02052, tel: 508-358-7577, [marklueders@cs.com](mailto:marklueders@cs.com), [www.luederscompany.com](http://www.luederscompany.com)

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**Carlsen Systems, LLC Booth(s): 183**

Representing Sulzer/ABS, Grundfos, Peerless, PACO, USEMCO, A3-USA, Powersmiths, & Toshiba

Contact: Craig Burmeister, 176 Amity Rd. #102, Woodbridge, CT 06525, tel: 203-663-1314, [cburmeister@carlsensystems.com](mailto:cburmeister@carlsensystems.com), [www.carlsensystems.com](http://www.carlsensystems.com)

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**Carter Pump Co. Booth(s): 102, 103, 104**

Plunger pumps for Robust duty to pump sludge.

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**Casella Organics Booth(s): 138**

Casella Organics is an industry leader in the transportation, recycling, processing and marketing of organic and mineral resources — including short paper fiber, ash, liming agents, food wastes, biosolids, and compost.

Contact: Michael Hodge, 110 Main St, Ste 1308, Saco, ME 04072, [michael.hodge@casella.com](mailto:michael.hodge@casella.com), [www.casellaorganics.com](http://www.casellaorganics.com)

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**ChemFree DeFoam LLC Booth(s): 177**

ChemFree DeFoam has developed an innovative patented solution for the control of foam without the need for anti-foaming chemicals. We have a combined 60+ years in solving foaming issues for a wide variety of markets. Our team can develop an innovative solution for foam control,

Contact: Ed Kane, 59 Apsley St (Bay 3), Hudson, MA 01749, tel: 518-669-2376, [ed@chemfreedefoam.com](mailto:ed@chemfreedefoam.com), [www.chemfreedefoam.com](http://www.chemfreedefoam.com)

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**Claro Booth(s): 438-440 & 446-448**

Complete system design/equipment: screening and grit removal (fine screens, septage stations, washpresses, baggers, aerated grit extraction screws, classifiers, vortex); anaerobic digestion systems (Big bubble Gun™ gas mixers, Cannon retrofits, modular sludge heat exchangers, heat recovery, biogas

Contact: NE3 781-275-1001

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**CN Wood Booth(s): 169**

C.N. Wood Co. has been a leading distributor of construction and environmental equipment for over 50 years with six locations throughout New England.

Contact: Tom Fiore, 200 Merrimac St, Woburn, MA 01801, [tfiore@cn-wood.com](mailto:tfiore@cn-wood.com), [www.cn-wood.com](http://www.cn-wood.com)

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**Continental Carbon Group****Booth(s): 455**

Continental Carbon Group is a supplier of products and systems for air filtration and odor control. We have a wide range of proven technologies with a well-established installation base in municipal and industrial odor control applications.

Contact: Russell Resources, PO Box 3276, 56 Stevens Rd, Brewer, ME 04412-2276, tel: 207-989-0591, lgerrish@r-r-inc.com, r-r-inc.com, Rep: Russell Resources, Inc.

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**Coyne Chemical Environmental Services****Booth(s): 127**

Chemical distributor for all your wastewater treatment requirements along with the technical expertise to perform on site evaluations for all products offered.

Contact: Kevin Brassard, 3015 State Rd, Croydon, PA 19021-6997, tel: 215-785-3000, kbrassard@coynechemical.com, www.coyneenvironmental.com

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**Cretex Specialty Products****Booth(s): 441**

Manhole and Pipe Rehabilitation Products

Contact: David McArthur, N16 W23390 Stoneridge Dr., Ste A, Waukesha, WI 53188, tel: 908-227-0886, dlmcArthur@cretexseals.com, www.cretexseals.com

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**CSI Controls****Booth(s): 417**

Specializes in designing and fabricating control systems for water and wastewater applications. PRIMEX Controls designs complete custom systems to meet your specific needs, no matter how unique.

Contact: Jeremy Drinkwine, 220 Ohio St, Asland, OH 44805, jeremy.drinkwine@sjerhombus.com, www.csicontrols.com

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**CST Covers****Booth(s): 174**

Celebrating 125 years of legacy, CST designs innovative clear-span aluminum covers for wastewater process and water storage tanks that help control odorous emissions and prevent water intrusion. The flush batten OptiDome® from CST is a next generation aluminum geodesic dome that is Made in USA

Contact: Jack Staat, PO Box 1678, 498 Loop 336E, Conroe, TX 77301, tel: 936-827-3951, jstaat@cstindustries.com, www.cstindustries.com, Rep: David. F. Sullivan & Assoc., Inc.

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**CUES****Booth(s): 109**

CUES is the world's leading manufacturer of closed circuit television video (CCTV) inspection, rehabilitation, pipe profiling equipment and asset inspection/decision support software for sanitary and storm sewers, industrial process lines, and water lines.

Contact: Terri Mooney, 3600 Rio Vista Ave, Orlando, FL 32805-6605, tel: 407-849-0190, terrim@cuesinc.com, www.cuesinc.com

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**Custom Conveyor Corp.****Booth(s): 102, 103, 104**

Sludge conveyance by shaft less, shafted or Belt via gates into Bins. Top Quality, full tested as a system before shipment.

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**DANFOSS****Booth(s): 455**

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Contact: Russell Resources, PO Box 3276, 56 Stevens Rd, Brewer, ME 04412-2276, tel: 207-989-0591, lgerrish@r-r-inc.com, r-r-inc.com, Rep: Russell Resources, Inc.

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**David F Sullivan & Assoc., Inc (BRONZE SPONSOR)****Booth(s): 164-167 & 173-176**

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**Denali Water Solutions****Booth(s): 201**

Denali Water Solution provides a full line of services for Residuals and Biosolids to municipal and industrial companies nationwide for over 20 years. Our services include Beneficial Use, Composting, Dewatering, Equipment Rental & Emergency Service, Lagoon & digester Cleaning, Landfill Diversion,

Contact: Anita Dean, 3308 Bernice Ave, Russellville, AR 72802, tel: 987-978-5916, anita.dean@denaliwater.com, www.denaliwater.com

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**DeRagger****Booth(s): 102, 103, 104**

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**DeZURIK, Inc.****Booth(s): 487**

DeZURIK invented the eccentric plug over 75 years ago for the municipal marketplace and along with APCO and Hilton Valve has continued to expand their offerings of knife gates; control, butterfly, air-release, and check valves.

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**Diversified Infrastructure Services Inc.****Booth(s): 186**

Water/Wastewater Infrastructure Evaluation and Rehabilitation

Contact: Jon Ziegler, 1604 Thompson Ave., Unit J, Waterbury, CT 06704, tel: 715-359-9400, jziegler@disinc.us, www.disinc.us

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**DN Tanks****Booth(s): 485**

DN Tanks specializes in the design and construction of AWWA D-110 prestressed concrete storage tanks used for potable water, wastewater, and other liquids worldwide.

Contact: Chris Hodgson, 11 Teal Rd, Wakefield, MA 01880, tel: 781-246-1133, chris.hodgson@dntanks.com, www.dntanks.com

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**Doetsch Environmental Services (CONF. SPONSOR)****Booth(s): 144**

With over a century of sewer cleaning experience, Doetsch offers solutions for large diameter, long -reach, difficult-access and impossible cleaning tasks. Download our free App for calculating sewer debris volume and weights in a pipe!

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**Duke's Root Control****Booth(s): 491**

Duke's Root Control does it all, providing the best chemical root control product available, applied by the most professional crews in the industry. Razorooter® II is the only diquat-based herbicide registered by the U.S. Environmental Protection Agency (EPA) for controlling nuisance tree roots in sanitary sewer line

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**Duperon Corp.****Booth(s): 164**

Adaptable screening solutions for coarse, fine, perforated plate applications and washer compactors.

Contact: Lorene Bruns, 515 N Washington, 1st Fl., Saginaw, MI 48607, tel: 989-754-8800, lbruns@duperon.com, Rep: David. F. Sullivan & Assoc., Inc.

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**EA Tanks, Inc.****Booth(s): 496**

Since 1980, Engineering America has operated in the municipal and industrial marketplaces offering complete and comprehensive storage tank and covers. Our experienced crews have installed over 1,800 bolted steel liquid storage tanks nationwide.

Contact: Justin Bergener, 1822 Buerkle Rd., White Bear Lake, MN 55110, tel: 651-777-4041, jbergener@engamerica.com, www.engamerica.com, Rep: Atlantic Fluid Technology, Inc.

<b>Eastern Pipe Service</b>	<b>Booth(s): 168</b>
Pipe Lining, Video Inspection, Catch Basin Service, Line Cleaning, Manhole Rehabilitation, Jetting Contact: Hubert Thompson, 2 Thibeault Dr, Bow, NH 03304, tel: 603-424-4600, hthompson@easternpipeservice.com, www.easternpipeservice.com	
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ElectroScan, Inc. Designed & Manufactured in compliance with the ASTM F2550-13 our sewer & water leak detection products represent a new framework for condition assessment & evaluation, integrated to our CriticalSewer® and CriticalH2O® cloud applications that are revolutionizing how you collect Contact: James Birkenberger, JWB Company, 65 August Ave, Wolcott, CT 06716, tel: 203-879-6959, jamie@jwbcompany.net, www.jwbcompany.net, Rep: JWB Company	
<b>Enaqua</b>	<b>Booth(s): 464</b>
Premier Tech Aqua (PTA) has become an international leader in the field of onsite and decentralized wastewater treatment technologies for the residential, commercial, community and industrial sectors. With over 100,000 installations, each coupled with a rigorous inspection, maintenance and documented Contact: Russell Resources, PO Box 3276, 56 Stevens Rd, Brewer, ME 04412-2276, tel: 207-989-0591, lgerrish@r-r-inc.com, r-r-inc.com, Rep: Russell Resources, Inc.	
<b>Enduro Composites, Inc.</b>	<b>Booth(s): 488</b>
FRP Solutions for Water & Wastewater Treatment Plants, including: FRP Baffle Walls, FRP Flat Covers, Weirs & Baffles, and Odor Control Equipment. Contact: Kyle Montgomery, 16602 Central Green Blvd., Houston, TX 77032, tel: 713-358-4000, kmontgomery@endurocomposites.com, www.endurocomposites.com, Rep: Atlantic Fluic Technology, Inc	
<b>Enviro-Care Company,</b>	<b>Booth(s) 410-413 &amp; 473-474 &amp; 481-482 &amp; 489-490</b>
Enviro-Care is a supplier of wastewater headworks and water intake screening equipment along with the solids and grit management equipment integral to those applications. Brands include SAVI drum screens FSM Screens, & the BEAST FOG/Septage/Sludge screening system. Contact: Kenny Oyler, 1570 St. Paul Ave, Gurnee, IL 60030, tel: 224-302-0309, koyler@enviro-care.com, Rep: Wescor Associates	
<b>Environmental Dynamics, Inc.</b>	<b>Booth(s): 166</b>
Produces fine and coarse aeration systems for wastewater plant and lagoon applications. Turnkey capability available. Contact: Sue Dill, 5601 Paris Rd, Columbia, MO 65202, tel: 573-474-9456, suzanne.dill@environmentaldynamics.com, Rep: David F. Sullivan & Assoc., Inc.	
<b>Environment One Corporation</b>	<b>Booth(s): 401-406</b>
ALL-TERRAIN SEWER™ low pressure systems from E/One are significantly more affordable than conventional gravity sewers, safer than septic systems, and they're a light touch on the land. Contact: Christopher Nedwick, 2773 Balltown Rd, Niskayuna, NY 12309, tel: 518-596-2186, eone@eone.com, Rep: F.R. Mahony & Associates, Inc.	
<b>Environmental Operating Solutions, inc. (EOSi)</b>	<b>Booth(s): 449</b>
Environmental Operating Solutions, Inc. (EOSi) has been providing green chemicals and technical services for biological contaminant removal applications in water and wastewater treatment systems since 2003. Our agriculturally-derived MicroC® line of products (MicroC® 1000 - MicroC® 4000) Contact: Brendan Luther, 160 MacArthur Blvd. Ste 6, Bourne, MA 02532, tel: 508-322-3086, bluther@microc.com, www.microc.com	
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eRPortal's asset management software enables you to optimize operations, maintain assets and infrastructure, and manage all related materials, resources, and logistics. The software offers powerful mobile workforce functionality; and the ability to manage any type of asset, including machines, vehicles, Contact: Ed Garibian, 59 Interstate Dr, Ste 30, West Springfield, MA 01089, tel: 413-233-5404, egaribian@erportalsoftware.com, www.erportalsoftware.com	

<b>EST Associates (GOLD SPONSOR)</b>	<b>Booth(s): 203</b>
EST Associates, Inc. (EST) is an environmental services company providing safe, reliable, and cost effective collection system services including: open channel flow monitoring, telemetry systems, water quality monitoring, manhole inspections, CCTV investigations, and related field services. Contact: John Carlin, 51 Fremont St, Needham, MA 02494, tel: 781-455-0003, jcarlin@estassociates.com, www.estassociates.com	
<b>Evoqua Water Technologies</b>	<b>Booth(s): 165</b>
Evoqua Water Technologies supplies products for water & wastewater treatment. Trusted brands include: Envirex®, JetTech, DAVCO™, RJ Environmental, MEMCOR®, Wallace & Tiernan, ETS-UV™, Westates, USFilter, Cambridge Water, and others. Contact: Rob Biase, 409 Hastings Dr, Cranberry Township, PA 16066, tel: 724-312-3336, robert.biase@evoqua.com, Rep: David F. Sullivan & Assoc., Inc.	
<b>F. R. Mahony &amp; Associates, Inc. (CONF. SPONSOR)</b>	<b>Booth(s): 401-406</b>
F. R. Mahony and Associates, Inc. has been a manufacturers' representative and equipment packager in the water and wastewater equipment business since 1964. The company, which serves the six New England states, was founded by Frank Mahony, who passed away in 2017. Contact: Ed Quann, 273 Weymouth St, Rockland, MA 02370, tel: 781-982-9300, edquann@frmahony.com, www.frmahony.com	
<b>F.W. WEBB Co. - Process Controls Div.</b>	<b>Booth(s): 209, 216</b>
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<b>FCB Insurance LLC</b>	<b>Booth(s): 101</b>
Commercial Insurance Agent Contact: Alice Lara, 401 Main St, Ridgefield, CT 06877, tel: 203-894-3113, alice.lara@fcbins.com, www.fcbins.com	
<b>Flottweg Separation Technology</b>	<b>Booth(s): 176</b>
Flottweg Separation Technology is an established manufacturer of ISO9001 dewatering and thickening centrifuges with numerous US and New England installations. Designs include independent VFD energy efficient drives. Contact: Ed Sweeney, 143A Rowayton Ave, Norwalk, CT 06853, tel: 203-838-6120, esweeney@flottweg.net, Rep: David. F. Sullivan & Assoc., Inc.	
<b>Flood Control International Inc.</b>	<b>Booth(s): 505</b>
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<b>Flomotion Systems Inc.,</b>	<b>Booth(s): 411</b>
Flomotion Systems manufactures peristaltic pumps & pre-packaged chemical feed systems. ISOMAG Magnetic flow meters; ultrasonic level, open-channel and clamp-on transit-time ultrasonic flow meters; battery operated flow meters with remote communications. Contact: Chuck Scharping, 165 Creekside Dr, Ste 112, Amherst, NY 14228-2038, tel: 800-909-3569, chucks@flomotionsystems.com, Rep: Wescor Associates	
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Service provider specializing in Flow Monitoring and I/I study work Contact: Paul Casey, 72 Pricilla Lane, Auburn, NH 03032, tel: 603-656-9799, p2casey@flowassessment.com, www.flowassessment.com	



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Flow Tech, Inc. is a full-service HVAC systems and water/wastewater variable frequency drive (VFD) manufacturer's representative celebrating over 25 years of successful enterprise. Our mission is to provide products and services that have a direct effect on how commercial, industrial, municipal	
Contact: Larry Scola, 10 Bidwell Rd, South Windsor, CT 06074, tel: 978-514-3496, lscola@flowtechinc.com, www.flowtechinc.com	
<b>FlowWorks, Inc.</b>	<b>Booth(s): 443</b>
Inflow & Infiltration Analysis.	
Contact: Trent Kamus, 111 SE Everett Mall Way, Ste E102, Everett, WA 98208, tel: 206-496-2574, tkamins@flowworks.com	
<b>Flygt Products - A Xylem Brand (CONF. SPONSOR)</b>	<b>Booth(s): 140, 141</b>
Flygt Products - A Xylem Brand manufactures and services submersible & dry-pit pumps, submersible mixers, and control systems.	
Contact: Brendan Kennedy, 78K Olympia Ave, Woburn, MA 01801, tel: 781-935-6515, brenndan.kennedy@xylem.com, www.xylem.com	
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Contact: Russell Resources, PO Box 3276, 56 Stevens Rd, Brewer, ME 04412-2276, tel: 207-989-0591, lgerrish@r-r-inc.com, r-r-inc.com, Rep: Russell Resources, Inc.	
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Contact: Joe Macula, 60 Okner Parkway, Livingston NJ 07039, tel: 973-533-6457, jmacula@franklinmiller.com, Rep: F.R. Mahony & Associates, Inc.	
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FreeWave manufactures the complete line of industrial wireless products available in High Speed Wireless Ethernet, Unlicensed Spread Spectrum & Licensed Narrow Band Serial in the VHF radio communication bands. In addition FreeWave also offer industrial rated Wifi radios	
Contact: James Birkenberger, JWB Company, 65 August Ave, Wolcott, CT 06716, tel: 203-879-6959, jamie@jwbcompany.net, www.jwbcompany.net, Rep: JWB Company	
<b>Gabriel Novac &amp; Assoc.</b>	<b>Booth(s): 176</b>
GNA designs and manufactures CSO and stormwater equipment such as Hydroslide flow regulators, Hydrosel, Hydroflush, and Hydroclean fine brush screen.	
Contact: Gabe Novac, 11 Spellman Rd, Plattsburgh, NY 12901, tel: 514-336-5454, gnovac@gnacso.com, Rep: David. F. Sullivan & Assoc., Inc.	
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Contact: Alan or Bob Hopkins, 310 South St, Plainville, MA 02760, tel: 508-699-9300, ahopkins@bauhopkins.com, bhopkins@bauhopkins.com, www.bauhopkins.com, Rep: BAU/HOPKINS	

<b>Grande Water Management Systems</b>	<b>Booth(s) 479</b>
Grande Water Management systems specializes in Stainless Steel equipment for CSO Management, SSO Abatement, Stormwater Management and Wastewater Management. Flow & Level Control, Tank & Sewer Flushing, Overflow Screening.	
Contact: Francis Grande, 3950 Montee Masson, Laval, QC, H7B 1C4, Canada, tel: 450-315-1115, sales@grandeinc.com, www.grandeinc.com, Rep: Atlantic Fluic Technology, Inc	
<b>Green Mountain Pipeline Services (GOLD SPONSOR)</b>	<b>Booth(s): 442</b>
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Contact: Russell Resources, PO Box 3276, 56 Stevens Rd, Brewer, ME 04412-2276, tel: 207-989-0591, lgerrish@r-r-inc.com, r-r-inc.com, Rep: Russell Resources, Inc.

**R. H. White Construction Co., Inc.****Booth(s): 105, 106**

R.H. White Construction specializes in utility, mechanical, water/wastewater and building construction services and solutions as well as the operation and management of treatment plants through its water utility division, WhiteWater, Inc.

Contact: www.rhwhite.com, www.whitewateronline.com, info@rhwhite.com or call 800-992-8182.

**RACO Manufacturing & Engineering****Booth(s): 425**

RACO offers a complete line of systems for remote site monitoring that include phone line, Ethernet/OPC, cellular/wireless and internet based. RACO has provided municipalities, industry & government with a wide variety of high-quality, reliable remote communications systems, annunciators & RTU's

Contact: James Birkenberger, JWB Company, 65 August Ave, Wolcott, CT 06716, tel: 203-879-6959, jamie@jwbcompany.net, www.jwbcompany.net, Rep: JWB Company

**Rain for Rent****Booth(s): 198**

Rain for Rent is a leading provider of temporary liquid handling solutions including pumps, tanks, filtration and spill containment. Projects range from flood relief to construction site dewatering, sewer bypasses and industrial plant turnarounds.

Contact: Justin Zalegowski, 9 Pioneer Dr, North Oxford, MA 01537, tel: 508-439-7458, jzalegowski@rainforrent.com, www.rainforrent.com

**Raven Lining Systems****Booth(s): 197**

Raven Lining Systems has been an industry leader in the water, wastewater and manhole rehabilitation industry for nearly three decades. The engineered solutions Raven utilizes have proven to stand the test of time simply by providing superior quality and reliability, along with a network of certified applicators.

Contact: Roxanne Cook, 13105 E 61st St. Ste A, Broken Arrow, OK 74012, tel: 918-615-0020, cookr@ravenlining.com, www.ravenlining.com

**Rebuild It Services Group,****Booth(s) 410-413 & 473-474 & 481-482 & 489-490**

RSG is a one stop rebuild shop for all your clarifier rebuild needs. We are your source for all EIMCO and Dorr-Oliver Parts & Service.

Contact: Terry Reyburn, 6810 South 300 West, Ste 8, Midvale, UT 84047, tel: 888-709-5676, sales@rebuild-it.com, Rep: Wescor Associates

**Resource Management, Inc.****Booth(s): 178**

Resource Management, Inc. (RMI) is committed to the land, our environment and the people we serve. We provide responsive, innovative, and high quality organic residuals and recycling services to address our customers interests and needs.

Contact: Shelagh Connelly, 1171 NH Rte 175, Holderness, NH 03245, tel: 603-536-8900, RMI@rmirecycles.com, www.rmirecycles.com

**RI Analytical Laboratories Inc****Booth(s): 408**

R. I. Analytical has specialized in the analysis of water, wastewater, soil, air and bulk materials since 1976. Our environmental laboratories are issued certifications from the National Environmental Laboratory Accreditation Conference (NELAC) as well as a variety of regulatory authorities

Contact: Derek Lonczak, 41 Illinois Ave, Warwick, RI 02888, tel: 978-618-3357, dlonczak@rianalytical.com, www.rianalytical.com

**RMS Utility Services****Booth(s): 205**

RMS Utility Services is a line control and plant services firm specializing in line control services such as hot tapping, line stopping and valve insertion and also plant services and manhole I/I inspection. We pride ourselves in keeping our promises, offering quality work at a fair price and being available when you need

Contact: Chad Smeltzer, 4410 S Hi Point Rd, McHenry, IL 60050, tel: 302-419-6776, chads@midwestwatergroup.com, www.rms4service.com

**Rockwell Automation****Booth(s): 210**

Rockwell Automation, Inc., the world's largest company dedicated to industrial automation and information, makes its customers more productive and the world more sustainable. Our Core Platforms Enable The Connected Enterprise. Headquartered in Milwaukee, Wis.

Contact: Michael Quirk, 100 Nickerson Rd, Marlboro, MA 01752, tel: 508-817-6346, mquirk@ra.rockwell.com, www.rockwellautomation.com

**Russell Resources, Inc.****Booth(s) 454-456 & 462-465**

We represent some of the most innovative, robust, and energy-efficient brands in the Water and Wastewater Industries. Our principals pride themselves on providing long-lasting and low cost of ownership solutions. Whatever your problem is, we'll find a solution!

Contact: Lisa Gerrish-Singh, PO Box 3276, 56 Stevens Rd, Brewer, ME 04412-2276, tel: 207-989-0591, lgerrish@r-r-inc.com, r-r-inc.com

**SAF-T-FLO****Booth(s): 431**

SAF-T-FLO Specializes in manufacturing chemical injection quills, sampling probes for chemical feed systems in the municipal, industrial & commercial water treatment industries.

Contact: Alan or Bob Hopkins, BAU/HOPKINS, 310 South St, Plainville, MA 02762, tel: 508-699-9300, ahopkins@bauhopkins.com, bhopkins@bauhopkins.com, www.bauhopkins.com, Rep: BAU/HOPKINS

<b>Schreiber</b>	<b>Booth(s): 432</b>
Process Equipment: Fuzzy Filters, Grit Removal Equipment, Clarifiers & Continuously Sequencing Reactor.	
Contact: Alan or Bob Hopkins, 310 South St, Plainville, MA 02760, tel: 508-699-9300, ahopkins@bauhopkins.com, bhopkins@bauhopkins.com, www.bauhopkins.com, Rep: BAU/HOPKINS	
<b>Seepex Pumps</b>	<b>Booth(s): 420</b>
SEEPEx progressive cavity pumps, chemical metering skids, macerators and control systems are used in almost all processes in the water & wastewater industry. They comply with strict national and international environmental regulations, and are manufactured and serviced in the United States.	
Contact: Chris Davis, 533 Speedway Dr, Enon, Ohio 45323, tel: 401-479-7103, cdavis@seepex.com, www.seepex.com	
<b>Sentrol, Inc</b>	<b>Booth(s): 190</b>
Sentrol represents the industry's leading manufacturers of sensor and fluid control products. Headquartered in historic Plymouth, Massachusetts, the company serves the Northeast's contractors, construction managers, engineering companies, manufacturers, and OEMs.	
Contact: Timothy Crowley, 1 Roberts Rd, Plymouth, MA 02360, tel: 508-830-0458, sales@nesentrol.com, www.nesentrol.com	
<b>Shelter Works</b>	<b>Booth(s): 457</b>
Shelter Works has been manufacturing fiberglass shelters, custom fiberglass enclosures, fiberglass buildings, and prefabricated shelters. All of our shelters are engineered to order and are built according to your specifications – we can accommodate orders for shelters of any size, any color and components!	
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<b>Smith and Loveless</b>	<b>Booth(s): 465</b>
Premier Tech Aqua (PTA) has become an international leader in the field of onsite and decentralized wastewater treatment technologies for the residential, commercial, community and industrial sectors. With over 100,000 installations, each coupled with a rigorous inspection, maintenance and documented	
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<b>SNF Polydyne</b>	<b>Booth(s): 407</b>
Global Leader in the Manufacture of Water-Soluble Polymers for Municipalities	
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<b>Spencer Turbine Co.</b>	<b>Booth(s): 433</b>
Aeration blowers including high-efficiency Power Mizer® cast centrifugal and high-speed AyrJet® turbo blowers featuring magnetic bearing technology. Custom engineered and fabricated gas pressure booster blowers and packages for digester and biogas applications.	
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<b>Sprayroq, Inc. (CONF. SPONSOR)</b>	<b>Booth(s): 184</b>
Sprayroq develops and manufactures fast-curing structural and chemical-resistant polyurethane coatings for the rehabilitation and protection of underground infrastructure.	
Contact: Jeremy Huckaby, 4766 Grantswood Rd, Ste 150, Irondale, AL 35210, tel: 205-957-0020, jhuckaby@sprayroq.com, www.sprayroq.com	
<b>SPX Flow, Inc - Lightnin Mixers</b>	<b>Booth(s): 401-406</b>
With over 90 years of unrivaled experience in mixing technology, process knowledge, and technological innovations, Lightnin enjoys a global reputation for durable, long-lasting mixers, agitators, aerators, flocculators and impeller designs for fluid processing systems.	
Contact: Mike Giralico, 135 Mt. Read Blvd, Rochester, NY 14611, tel: 585-436-5550, lightnin@spxflow.com, Rep: F.R. Mahony & Associates, Inc.	

<b>SSI Aeration, Inc. (Stamford Scientific Int.),</b>	<b>Booth(s) 481</b>
Represented by Wescor Associates, SSI Aeration Inc. designs and manufactures fine and coarse bubble diffusers, complete aeration systems, replacement membranes, fixed grid and retrievable systems, manufactures own membranes, including many patented technologies.	
Contact: Tom Devine, 4 Tucker Dr., Poughkeepsie, NY 12603, tel: 845-454-8171, tom.devine@ssiaeration.com, Rep: Wescor Associates	
<b>Stacey DePasquale Engineering, Inc.</b>	<b>Booth(s): 451</b>
Stacey DePasquale Engineering, Inc. (SDE) has provided wastewater & storm water related services to numerous private and public clients since 1999.	
Contact: Stacey Depasquale, 354 Merrimack St, Ste 200, Lawrence, MA 01843-1755, tel: 978-975-0500, sdepasquale@sde-inc.com, www.sde-inc.com	
<b>StormTrap</b>	<b>Booth(s): 200</b>
StormTrap offers proven and leading-edge solutions for managing runoff, protecting waterways and improving the use of your property. We are committed to providing cost-effective, customized water management solutions to engineers, owners and municipalities across North America and abroad.	
Contact: Patrick Gordon, 1287 Windham Prkwy, Romeoville, IL 60446, tel: 815-941-4549, pgordon@stormtrap.com, www.stormtrap.com	
<b>SUEZ (GOLD SPONSOR)</b>	<b>Booth(s): 202</b>
Water and Wastewater Contractor	
Contact: Michael Burke, 1 Berkshire St, Holyoke, MA 01040, michael.burke@suez-NA.com, www.suez.com	
<b>Sullivan Associates/RITEC Environmental</b>	<b>Booth(s): 458</b>
Control Devices and Chemical Feed Equipment	
Contact: Pete Williams, PO Box 514, East Boothbay, ME 04544, tel: 207-633-3111, pete.williams@ritec.com, www.ritecenvironmental.com	
<b>Synagro Northeast, LLC (SILVER SPONSOR)</b>	<b>Booth(s): 180</b>
Synagro is the country's preeminent provider of biosolids and residuals solutions services since 1986. Headquartered in Baltimore, Maryland, we employ over 800 people in 34 states and service more than 600 municipal and industrial water and wastewater facilities.	
Contact: Pat Rimkoski, 199 Municipal Rd, Waterbury, CT 06708, tel: 860-483-0160, primkoski@synagro.com, www.synagro.com	
<b>Technology Sales Associates, Inc.</b>	<b>Booth(s): 426-429 &amp; 501-504</b>
People - Technology - Results. Founded in 1977, we specialize in the water, wastewater and process industries. We pride ourselves in representing manufacturers that are industry leaders, and who share our commitment to excellence.	
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<b>Ted Berry Company, Inc. (SILVER SPONSOR)</b>	<b>Booth(s): 110</b>
Municipal and Industrial Cleaning, CCTV Condition Assessment, and Trenchless Infrastructure Rehabilitation/Replacement	
Contact: Peter Goodwin, 521 Federal Rd, Livermore, ME 04253, tel: 207-752-0119, peter.goodwin@tedberrycompany.com, www.tedberrycompany.com	
<b>Tenstim</b>	<b>Booth(s): 204</b>
Portable pain relief	
Contact: Oguz Tatlioglu, 582 Tam O Shanter, Las Vegas, NV 89109, tenstimllc@gmail.com, www.tenstim.com	
<b>The MAHER Corporation (GOLD SPONSOR)</b>	<b>Booth(s): 152-158 &amp; 181</b>
Please visit the following companies in Booths 152-158 & 181: Boerger, ECS, Vapex, Parkson, Xylem, EIM, Straub, Biorem, Watson Marlow, Brentwood, Waco, Trojan and Lakeside Equipment	
Contact: Peter Kibble, 192 Pleasant St, Rockland, MA 02370, tel: 781-421-2600, pkibble@themahercorp.com, www.themahercorp.com	

<b>Trojan Technologies/Salsnes Filter</b>	<b>Booth(s): 152-158 &amp; 181</b>
Contact: Peter Kibble, 192 Pleasant St, Rockland, MA 02370, tel: 781-421-2600, pkibble@themahercorp.com, www.themahercorp.com, Rep: The Maher Corporation	
<b>Vapex Environmental Technologies</b>	<b>Booth(s): 153</b>
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The Vortex Companies deliver advanced trenchless technologies and turnkey services to cost effectively renew water, sewer and industrial infrastructure. We provide a suite of services and products, including lining and coating systems, bypass pumping, repair materials, sewer robotics, pipe bursting and facility	
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Thermal Process Systems has established relationships with the most respected equipment manufacturers in the industry today. It is an unmatched combination, offering you complete systems integration, from retrofit to ground up installation and control.	
Contact: Russell Resources, PO Box 3276, 56 Stevens Rd, Brewer, ME 04412-2276, tel: 207-989-0591, lgerrish@r-r-inc.com, r-r-inc.com, Rep: Russell Resources, Inc.	
<b>Thompson Pipe Group</b>	<b>Booth(s): 150</b>
Thompson Pipe Group is one of the largest providers of pressure and gravity pipe solutions in North America. Privately owned, we have production plants located throughout the U.S. and an extensive transportation, technical and field support network covering our entire North American footprint.	
Contact: Jeff LeBlanc, 3011 N Laurel Ave., Rialto, CA 92377, tel: 225-658-6166, jleblanc@thompsonpipegroup.com, www.thompsonpipegroup.com	
<b>Trident Actuators</b>	<b>Booth(s): 495</b>
Manufacturer of self-contained electro-hydraulic actuators for gates and valves used in the water and waste water industry. Features include Fail-Safe, submersible, Explosion Proof, and routine maintenance free.	
Contact: John Cermanski, 329 Center Ave., Mamaroneck, NY 10543, tel: 914-698-2650, j.cermanski@mihtrident.com, www.mihtrident.com, Rep: Atlantic Fluid Technology, Inc.	
<b>Truax Corporation</b>	<b>Booth(s): 196</b>
We are a full-service catch basin and drain maintenance company. Our services include catch basin cleaning, storm drain maintenance, high velocity pipe flushing and closed-circuit television inspections.	
Contact: Lloyd Truax, PO Box 2186, Plainville, MA 02762, tel: 508-316-0979, kathy@truaxcorporation.com, www.truaxcorporation.com	
<b>Trumbull Industries, Inc.</b>	<b>Booth(s): 194</b>
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Contact: Victor Dasbach, PO Box 1556, 1040 N. Meridian Rd, Youngstown, OH 44509, tel: 330-307-1217, vdasbach@trumbull.com, www.trumbull-mfg.com	
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Contact: Matt Sumbera, 3640 W 12th St, Houston, TX 77008-6008, tel: 713-581-7851, msummera@ultraflote.com, Rep: Wescor Associates	

<b>United Concrete Products, Inc.</b>	<b>Booth(s): 139</b>
Engineered Pump Stations and Prefabricated Buildings	
Contact: Robert McGuigan, 173 Church St, Yalesville, CT 06492, tel: 203-530-2716, rmccuigan@unitedconcrete.com, www.unitedconcrete.com	
<b>USABBLUEBOOK</b>	<b>Booth(s): 450</b>
USABBlueBook is the water and wastewater industry's leading source for MRO equipment and supplies. Over 64,000 Items • Ultra-Fast Delivery • 100% Satisfaction Guarantee. Request your FREE catalog today—call 800-548-1234 or visit www.usabbluebook.com.	
Contact: Charles Kayton, PO Box 9005, Gurnee, IL 60031, tel: 631-355-5440, ckayton@usabbluebook.com, www.usabbluebook.com	
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Utility Cloud enables any size organization to reach optimal performance with a robust suite of operations management tools. This reliable, feature rich asset and work management solution can save your enterprise 30-70% on time managing tasks like asset management and maintenance, regulatory	
Contact: Mark Moreau, 7 Wall St, Windham, NH 03087, tel: 508-431-7607, mark.moreau@utilitiycloud.us, www.utilitiycloud.us	
<b>Verder</b>	<b>Booth(s): 424</b>
Peristaltic Hose & Tube Pumps. The unique design of Verder Peristaltic Pumps make them ideally suited to a wide range of application areas. They are extremely robust, simple to use, easy to control, versatile & a reliable way to pump liquids.	
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<b>Vertical Turbine Pumps</b>	<b>Booth(s): 102, 103, 104</b>
Weir Floway for great efficiencies and full NSF certification National Pump for quick shipments and submersibles Morrison Pump for Axial and Mixed Flow applications.	
Contact: Gary MacDonald, PO Box 790, 121 Commerce Way, South Windsor, CT 06074, tel: 860-290-1564, gmacdonald@msipump.com, www.msipump.com, Rep: Mechanical Solutions, Inc.	
<b>Victaulic</b>	<b>Booth(s): 206</b>
Piping solutions, valves, dynamic movement joints, HDPE	
Contact: Marc Shaffer, 4901 Kesslersville Rd, Easton, PA 18040, tel: 781-254-4192, marc.shaffer@victaulic.com, www.victaulic.com	
<b>Viking Chains Enviro Division a Division of Connexus Industries Inc.</b>	<b>Booth(s): 496</b>
Viking Chain specializes in metallic and non-metallic chain & flight systems for rectangular clarifiers and grit removal systems. Viking also manufactures chain and accessories for a wide range of applications in the water and wastewater field.	
Contact: Paul Vandemark, 3411 Novis Pointe, Acworth, GA 30101, tel: 604-882-1602, sdavies@cnxsind.com, www.vikingchainsenvirodivision.com, Rep: Atlantic Fluid Technology, Inc.	
<b>Vogelsang</b>	<b>Booth(s): 444</b>
Extremely dependable sludge and solids handling products for the world's municipal market. Specifically designed for municipal service, Vogelsang will exceed your expectations in quality and performance. Pumps & Grinders Equipment.	
Contact: Brian Creech, PO Box 751, Ravenna, OH 44266, tel: 916-218-9019, brian.creech@vogelsangusa.com, www.vogelsangusa.com	
<b>Vulcan Industries, Inc.</b>	<b>Booth(s): 480</b>
Since 1978, Vulcan Industries (Missouri Valley, IA) has been a U.S. leader in manufacturing quality wastewater equipment including screens, screenings washers / compactors, screening conveyance systems, grit collection and treatment systems and rotary drum thickeners.	
Contact: Norm Jackman, 212 South Kirin St., Missouri Valley, IA, tel: 712-642-2755, norm@vulcanindustries.com, www.vulcanindustries.com, Rep: Atlantic Fluid Technology, Inc.	

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**WACO Products, Inc.** **Booth(s): 152-158 & 181**

Flow control slide gates (sluice gates), level control weir gates and tilting weirs, stop gates, stop logs, flap gates, and telescopic valves. Manual, electric and hydraulic operators. Static barscreens, screen gates, and debris baskets.

Contact: Peter Kibble, 192 Pleasant St, Rockland, MA 02370, tel: 781-421-2600, pkibble@themahercorp.com, www.themahercorp.com, Rep: The Maher Corporation

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**Walker Process Equipment- Division of McNish Corporation** **Booth(s): 401-406**

Since 1946 Walker Process has been solely dedicated to designing and manufacturing equipment for the Water and Wastewater Industry at our facility in Aurora, IL. We offer proven municipal technologies for biological treatment, anaerobic treatment, wastewater clarification, digestion, separation, and sludge

Contact: Jeff Thomas, 840 N. Russell Ave., Aurora, IL 60506, tel: 630-264-5213, jthomas@walker-process.com, Rep: F.R. Mahony & Associates, Inc.

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**Walker Wellington LLC** **Booth(s): 475-477**

Providing solutions to the water and wastewater industries for over 30 years. Representing: Vaughan Chopper Pumps, Rotamix, Huber Technologies, Andritz Separation, Velodyne Polymer Systems and Wangen Progressive Cavity Pumps.

Contact: Henry Russell, PO Box 308, Portsmouth, NH 03802, tel: 603-498-2384, henry@walkerwellington.com, www.walkerwellington.com

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**Walker Wellington, LLC** **Booth(s): 214, 215**

Providing solutions to the water and wastewater industries for over 30 years. Representing: BlueinGreen gas solution systems for oxygenation, pH adjustment, oxidation and odor control, Fontaine Aquinox Gates, CMI Odor Control, Bion Carbon systems and AB Energy - Cogeneration Systems.

Contact: Henry Russell, P.O. Box 308, Portsmouth, NH 03802, tel: 603-498-2384, henry@walkerwellington.com, www.walkerwellington.com

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**WasteCorp Pumps,** **Booth(s) 412**

WasteCorp Pumps is a leading manufacturer of pumps for the municipal, industrial, and commercial markets. These designs include plunger, diaphragm, self-priming chopper, and split case.

Contact: Marc Johnson, PO Box 70, Grand Island, NY 14072-0070, tel: 888-829-2783, info@wastecorp.com, Rep: Wescor Associates

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**Watson Marlow Inc.** **Booth(s) 156**

The world's largest manufacturer of peristaltic tube and hose pumps. Tell us about your chemical feed and sludge transfer needs and we'll find the right pump for the application.

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**Wemco Weir Specialty Pumps,** **Booth(s) 410**

Wemco Weir Specialty Pumps manufactures the Wemco Torque-Flow Model C & Model CE pumps, Screw-Flow pumps, the Wemco Hydrogritter, WSP Chop-Flow, Non-Clog, & Self-Primers.

Contact: Joshua Jensen, 440 West 800 South, Salt Lake City, UT 84101, tel: 801-359-8731, wemco@mail.weir, Rep: Wescor Associates

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**Wescor Associates, Inc.** **Booth(s): 410-413 & 473, 474 & 481, 482 & 489-490**

Manufacturer's Representative for over 40 years. Representing leading companies in the water and wastewater fields. Process Equipment-Blowers, Clarifiers, Chem Feed, Screens, Grit, Odor, Pumping, Liquid/Solids Separation.

Contact: Bill Montanaro, Jr., PO Box 370, 686 South St, Wrentham, MA 02093, tel: 508-384-8921, billjr@wescor1.net, www.wescorassociatesinc.com

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**WESTECH** **Booth(s): 175**

Contact: D. Lucey, 3665 W. Temple, Salt Lake City, UT 84115, tel: 801-290-1509, dlucey@westech-inc.com, Rep: David. F. Sullivan & Assoc., Inc.

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**Whipps, Inc.** **Booth(s) 479**

Made in the USA. Whipps, Inc. manufactures high performance, low leakage, Stainless Steel and aluminum Slide Gates and Stop Logs since 1977.

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**Williamson Pump & Motor** **Booth(s): 162**

Sales/Service/Install & Repair of pumps, motors, controls, and all related accessories for commercial, residential, and municipalities

Contact: Bob Tilton, 25 Giffin Way, Chelsea, MA 02150, tel: 617-884-9200, sales@weco-group.com, www.weco-group.com

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**WhiteWater, Inc.** **Booth(s) 105, 106**

WhiteWater specializes in operating, managing, and maintaining water and wastewater systems to exacting standards of quality and performance. Our certified professionals tailor our specialized services to meet your organization's needs, and through our parent company, R.H. White,

Contact: www.whitewateronline.com, www.rhwhite.com, or email info@rhwhite.com or call 888-377-7678.

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**Worcester Polytechnic Institute** **Booth(s): 149**

At WPI, lifelong learning is an integral part of our educational philosophy. With personalized support and greater flexibility, our online graduate programs give working professionals access to WPI's distinctive project-based education—and the real-world knowledge and skills needed to go further in their careers.

Contact: Tim Goodale, 100 Institute Rd, Worcester, MA 01609, tel: 508-831-6594, tpgoodale@wpi.edu, www.wpi.edu/academics/online/study/environmental-engineering-ms

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**Xylem Dewatering Solutions Inc - Godwin Pumps** **Booth(s): 492**

Godwin, a Xylem brand, maintains a fleet of over 20,000 portable rental pumps and 3,200 pieces of related equipment for dewatering use in construction, mining and quarrying; in drinking water supply; and in wastewater bypasses in municipal, industrial and environmental markets.

Contact: Tom Malone, 99 Stockhouse Rd, Bozrah, CT 06334, tel: 860-889-2343, tom.malone@xylem.com, www.xylem.com/en-US/brands/godwin/

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**Xylem – Sanitaire Products** **Booth(s): 152-158 & 181**

Fine Bubble and Coarse Bubble Aeration Systems, SBR Technology (ICEAS), Oxidations Ditch, Optimized Aeration/Mixing Solutions, Aerobic Digester Solutions, and Process Controls

Contact: Peter Kibble, 192 Pleasant St, Rockland, MA 02370, tel: 781-421-2600, pkibble@themahercorp.com, www.themahercorp.com, Rep: The Maher Corporation



# Exhibitor Category Directory



## Air Quality, Odor Control

3M (E)

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**CST Covers**  
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**Evoqua Water Technologies**  
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**F. R. Mahony & Associates, Inc.**  
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**Walker Wellington LLC**  
(475-477 & 214, 215)

**Wescor Associates, Inc.,**  
(410-413 & 473-474 & 481-482 & 489-490)



## Stormwater Detention, Retention, Conveyance & Treatment

**ChemFree DeFoam LLC** (177)

**David F Sullivan & Assoc., Inc. & Groth Corporation**  
(164-167 & 173-176)

**Flottweg Separation Technology & Gabriel Novac & Assoc.**  
(164-167 & 173-176)

**ILC Dover** (187)

**Kemira** (484)

**Michie Corporation**  
(188)

**Oldcastle Precast - Stormwater** (146)

**RMS Utility Services**  
(205)

**Stacey DePasquale Engineering, Inc.** (451)

**StormTrap** (200)

**The MAHER Corporation**  
(152-158 & 181)

**Walker Wellington LLC**  
(475-477 & 214, 215)

**Xylem Dewatering Solutions Inc - Godwin Pumps** (492)



## Flow Monitoring, Instrumentation, Controls and SCADA

**ADS Environmental Services** (437, 445)

**BAU Hopkins Inc.**  
(422-425 & 430-432)

**Carl Lueders & Company** (415)

**ChemFree DeFoam LLC** (177)

**Diversified Infrastructure Services Inc.** (186)

**EST Associates** (203)

**F. R. Mahony & Associates, Inc.**  
(401-406)

**Flow Assessment Services LLC** (135, 136)

**FlowWorks** (443)

**Hach Company** (193)

**JWB Company/Hach Flow/Autrol America**  
(422-425 & 430-432)

**Malt Sales Company**  
(217)

**National Water Main Cleaning Co.** (107, 108)

**Nivelco, USA/ ElectroScan, Inc./ SAF-T-FLO**  
(422-425 & 430-432)

**Orenco Systems Inc**  
(199)

**POND Technical Sales**  
(434)

**RACO/Pribusin/Motor Protection Electronics/ Opti Float/Cox/ FreeWave**  
(422-425 & 430-432)

**Russell Resources, Inc.**  
(454-457 & 462-465)

**Sentrol, Inc.** (190)

**Stacey DePasquale Engineering, Inc.** (451)

**Sullivan Associates/ RITEC Environmental**  
(458)

**Xylem Dewatering Solutions Inc. - Godwin Pumps** (492)



## Laboratory Services and Supplies

3M (E)

**RI Analytical Laboratories Inc.** (408)

(xxx) = Exhibit hall booth number



## New Pipe & Collection System Components

**Airvac- A brand of Aqseptence Group** (500)

**CUES** (109)

**F. R. Mahony & Associates, Inc.** (401-406)

**Flottweg Separation Technology & Gabriel Novac & Assoc.** (164-167 & 173-176)

**Oakson, Inc.** (483)

**Russell Resources, Inc.** (454-457 & 462-465)

**Stacey DePasquale Engineering, Inc.** (451)

**Ted Berry Company, Inc.** (110)

**Victaulic** (206)

**Xylem Dewatering Solutions Inc. - Godwin Pumps** (492)



## Computer Hardware, Software, Asset Management Software & Cloud Services

**AllMax Software, Inc.** (147)

**Aries Industries, Inc.** (160)

**CUES** (109)

**eRPortal Software, Inc.** (208)

**FCB Insurance LLC** (101)

**FlowWorks** (443)

**Kemira** (484)

**Utility Cloud (AESC)** (171)

**Walker Wellington LLC** (475-477 & 214, 215)



## Tank Component and Coating Systems

**BAU Hopkins Inc.** (422-425 & 430-432)

**CST Covers** (164-167 & 173-176)

**David F Sullivan & Assoc., Inc & Groth Corporation** (164-167 & 173-176)

**Malt Sales Company** (217)

**Michie Corporation** (188)

**National Water Main Cleaning Co.** (107, 108)

**Raven Lining Systems** (197)



## Engineering (as a standalone service)

**LandTech Consultants, Inc.** (137)

**Michie Corporation** (188)  
**SNF Polydyne** (407)

**Stacey DePasquale Engineering, Inc.** (451)



## Process Equipment and Systems

**Aqua Solutions, Inc.** (452, 453, 460, 461, 469)

**Aquionics, Inc.** (401-406)

**Atlantic Fluid Technologies, Inc.** (478-480 & 487-488 & 495-496 & 505-506)

**BAU Hopkins Inc.** (422-425 & 430-432)

**Blake Equipment Co.** (466, 467)

**ChemFree DeFoam LLC** (177)

**CUES** (109)

**David F Sullivan & Assoc., Inc & Groth Corporation** (164-167 & 173-176)

**Duperon Corp. & BDP Industries, Inc.** (164-167 & 173-176)

**Evoqua Water Technologies** (164-167 & 173-176)

**F. R. Mahony & Associates, Inc.** (401-406)

**Flottweg Separation Technology & Gabriel Novac & Assoc.** (164-167 & 173-176)

**Ford Hall Company & Environmental Dynamics, Inc.** (164-167 & 173-176)

**Franklin Miller, Inc.** (401-406)

**Glasco uv & Schreiber** (422-425 & 430-432)

**Hach Company** (193)

**ILC Dover** (187)

**J&R Sales and Service, Inc.** (409)

**Malt Sales Company** (217)

**Mechanical Solutions Inc.** (102-104)

**MGD Process Technology, Inc.** (401-406)

**Philadelphia Mixers & Netzsch** (422-425 & 430-432)

**POND Technical Sales** (434)

**Russell Resources, Inc.** (454-457 & 462-465)

**Seepex Pumps** (420)

**Sentrol, Inc** (190)

**SNF Polydyne** (407)

**Spencer Turbine Co.** (422-425 & 430-432)

**Sullivan Associates/RITEC Environmental** (458)

**Technology Sales Associates, Inc.** (426-429 & 501-504)

**The MAHER Corporation** (152-158 & 181)

**Verder** (422-425 & 430-432)

**Victaulic** (206)

**Walker Wellington LLC** (475-477 & 214, 215)

**Wescor Associates, Inc., AquaTurbo Systems, Inc.** (410-413 & 473-474 & 481-482 & 489-490)

**WESTECH** (164-167 & 173-176)

**Xylem Dewatering Solutions Inc - Godwin Pumps** (492)



## Chemicals

**Holland Company, Inc.** (494)

**Kemira** (484)

**Malt Sales Company** (217)

**Seepex Pumps** (420)

**SNF Polydyne** (407)

**Sullivan Associates/RITEC Environmental** (458)



**Hayes Pump, Inc.**  
(470, 471, 472)

**RMS Utility Services**  
(205)

**Xylem Dewatering  
Solutions Inc - Godwin  
Pumps (492)**



## Diversified Infrastructure Services Inc. (186)

**R. H. White Construction  
Co., Inc./WhiteWater  
(105, 106)**

**Xylem Dewatering  
Solutions Inc - Godwin  
Pumps (492)**

## Notes



# Help Build Congressional Support for Clean Water in New England

***Join NEWEA at the National Water Policy Fly-In  
April 17 – 18, 2018***

Come to the Capitol to join with WEF, NACWA, AWWA, WERF and other national organizations to support water quality and to dialog with Congressional representatives from the New England states.

**We're at a critical juncture for the clean water industry!**

**On the plus side, President Trump has indicated strong support for investments in infrastructure**

- Will our water and wastewater systems get critically needed funding?
- Will the Clean Water State Revolving Fund continue unscathed, and what will New England's share be?

**On the uncertainty side, we expect the EPA to continue to look very different in 2018**

- How will water policies change under the new administration?
- What are the water environment focuses for the 116th Congress?

The Government Affairs Committee will be summarizing the key issues related to these topics in advance of the trip to Washington to give you background information and provide talking points to use when you speak with federal legislators.

**This year's Congressional trip will be different and more succinct than past NEWEA trips to DC. Major events will include:**

- NEWEA Kickoff Luncheon on Tuesday, April 17—speakers will cover major water developments in Washington, tips for effective congressional meetings and review NEWEA's talking points
- Meetings with Senators, Representatives and aides on Capitol Hill—Tuesday afternoon and Wednesday
- Congressional Reception—Wednesday evening April 17, Cannon Caucus Room

For more information call: Bob Fischer (802-658-7964)  
Ray Willis (508-341-8570 or Mary Barry (781-939-0908)





## EXHIBITION HOURS

Monday: 10:30 AM – 6:30 PM

Tuesday: 8:00 AM – 6:00 PM

Wednesday: 8:00 AM – 1:00 PM

### CONFERENCE PLANNERS

*Meeting Management Director*

**Elena Proakis Ellis**

*Conference Arrangements*

*Committee Chair*

**Ron Tiberi**

*Exhibits Committee Chair*

**Paul P. Casey**

*Program Committee Chair*

**Helen Gordon/Amy Anderson**

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**Mary Barry**

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*Education Program Coordinator*

**Janice Moran**

*Office Administrator*

**Linda Austin**

### TRAINING CONTACT HOURS

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.

See the NEWEA Registration desk for complete details and training forms.

## Meeting Room and Exhibit Locations

### 3rd Floor

Exhibits

Exhibit Booths #101–217

Back Bay Exhibit Hall

Back Bay Foyer Area

### Meeting/Session Rooms

Arlington\*

Berkeley\*

Boston University

Brandeis

Clarendon\*

Dartmouth\*

Exeter\*

Fairfield\*

Harvard

Northeastern

Regis

Simmons

Suffolk

Tufts

Wellesley

*\*Located inside Back Bay Exhibit Area*

### 4th Floor

Exhibits

Exhibit Booths #401–506

Salons F thru K and Foyer

Poster Sessions

### Meeting/Session Rooms

Salons A thru E

Hyannis

Nantucket

Orleans

Provincetown

Vineyard

Yarmouth

Falmouth

Champions Restaurant and St. Botolph are located on 2nd level

**KEY: 3rd floor rooms are Colleges, Universities, and Boston Streets.  
4th floor rooms are salons and Cape Cod Towns.**

**NEWEA  
2018  
Annual  
Conference  
& Exhibit  
January  
21-24**

BOSTON MARRIOTT  
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