



NEWEA
WORKING FOR WATER QUALITY

**CONFERENCE
PROGRAM**



**WATER'S
WORTH IT
LET'S GO
ALL IN.**

New England Water Environment Association Presents:

NEWEA 2019 Annual Conference & Exhibit

January 27–30 | Boston Marriott Copley Place | Boston, Massachusetts

Miscellaneous Events & Committee Meetings

Sunday, January 27, 2019		
Committee Chair & Council Director Orientation	Vineyard/Yarmouth	10:30 AM – Noon
Executive Committee	Salon E	Noon – 3:00 PM
YP Summit	Salon D-C-B	10 AM – 5:00 PM
Assessment and Development Committee	Champions	4:30 – 5:00 PM
Monday, January 28, 2019		
Sponsorship Committee	MIT	9:30 – 10:30 AM
Awards Committee	Orleans	10:30 AM – Noon
Laboratory Practices Committee	Hyannis	11:30 – 12:30 PM
CSO/Wet Weather Issues Committee	Champions	Noon – 1:00 PM
Energy Committee	Falmouth	Noon – 1:00 PM
Stormwater Committee	Vineyard/Yarmouth	Noon – 1:00 PM
Water Reuse Committee	Salty Pig	Noon – 1:00 PM
Watershed Management Committee	MIT	Noon – 1:00 PM
Young Professionals Committee	Regis	12:15 – 1:45 PM
Sustainability Committee	Hyannis	1:00 – 2:00 PM
Affiliated State Association Leadership	Clarendon	2:00 – 3:00 PM
Public Awareness Committee	MIT	2:00 – 3:30 PM
Government Affairs Committee	Clarendon	3:00 – 4:30 PM
Innovation Task Force	3rd floor atrium	4:30 – 5:30 PM
Plant Operations Committee	Vineyard/Yarmouth	4:30 – 5:30 PM
Tuesday, January 29, 2019		
Journal Committee	Orleans	7:30 – 8:30 AM
Laboratory Practices Certification Subcommittee	Falmouth	9:00 – 10:30 AM
Asset Management Committee	Boston University	11:30 – 1:00 PM
Industrial Wastewater Committee	Champions (back)	11:30 – 1:00 PM
Operations Challenge Committee	Harvard	11:30 – 12:30 PM
Public Education Committee	Vineyard/Yarmouth	Noon – 1:00 PM
Residuals Management Committee	Champions (back)	Noon – 1:00 PM
Safety Committee	Champions	Noon – 1:00 PM
Water for People Committee	Champions	Noon – 1:00 PM
Collection Systems Committee	Regis	12:30 – 1:30 PM
Membership Committee	Boston University	2:00 – 3:00 PM
NEWEA/NEWWA/APWA Leadership	Falmouth	2:00 – 3:00 PM
Utility Management Committee	MIT	2:00 – 3:00 PM
Collection Systems Certification Committee	Hyannis	2:00 – 3:30 PM
Veterans Workforce Development Committee	Connexion Lounge	3:30 – 4:00 PM
Wednesday, January 30, 2019		
Photo Ready Room	3rd floor atrium	9:00 – 11:00 AM
Microconstituents Committee	Hyannis	11:00 AM – Noon
Award Ceremony & Lunch	Salon E	11:00 AM
Small Communities Committee	Cheesecake Factory	12:30 – 1:30 PM
Speaker Breakfast/Ready Room (M, T, W)	Hyannis	7:30 AM



Janine Burke-Wells
NEWEA President



Amy Anderson
NEWEA Program
Committee Chair

TABLE OF CONTENTS

Executive Committee	2
Councils.....	2
Conference Events.....	12
Opening Session	15

TECHNICAL SESSIONS:

Monday.....	16
Tuesday	23
Wednesday	29
Innovation Pavilion.....	36
Poster Board Displays	38
Session Moderators	41
Program Presenters	43
Business Meeting	49
Floor Plans	50–51
Exhibitor Directory and Booth Listings	52

Welcome to the 2019 NEWEA Annual Conference!

It's the Year of the Volunteer! This year's theme focused on how all of us, as members of NEWEA, can do more in spreading the word that Water's Worth It! Thank you to everyone who raised your hand. As an organization, we were very successful in "going all in" and we have several sessions at this year's Annual Conference to highlight these efforts.

This premier water quality event and exhibit features 34 technical sessions, two poster sessions that showcase the work of both student and water quality professionals, and two floors of exhibitors featuring the industry's latest products. In keeping with this year's theme, find out about how YOU can help spread the word—check out the Government Affairs session on Monday morning and see how NEWEA is conversing with federal, state and local legislators and decision makers or stop into the Public Education session and learn how you can share the message with the next generation, or inquire about joining one of NEWEA's many committees.

On Monday, join us at the Opening Session to hear from our Keynote Speaker Charles Sennott of the GroundTruth Project. Throughout the day, we encourage you to visit the Professional Poster Board Session and technical sessions. The afternoon winds down with the first of two Exhibit Hall receptions on the 3rd Floor Exhibit Hall.

Tuesday is the day we celebrate the Operators and Innovators including a full program of technical sessions geared toward operators, and the Operator's Reception at noon. Join us at the Innovation Pavilion hosted by NEWEA and NEWIN on the 3rd floor Atrium to experience the latest innovation in the water industry and meet several of the local startups working and living in New England. Finally, enjoy countless networking opportunities at the 4th Floor 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 2019 NEWEA President, Raymond "Sonny" Vermette, of the City of Dover, NH. The Awards Luncheon sells out annually, so don't miss out!

We hope you take advantage of all the 2019 Annual Conference has to offer and use this occasion to catch up with old acquaintances and cultivate new ones.

We wish to recognize the significant efforts of the Meeting Management Council and members of the Program and Awards Committees who make this conference the place to be every January. Thanks to the members of all the committees who review abstracts, moderate sessions, and provide the technical and subject matter expertise we need to do our jobs better. And big thanks to the NEWEA Office Staff: Mary Barry, Janice Moran, Linda Austin and newest staffer Jordan Gosselin for their energy, professionalism, and patience in planning and coordinating this great event every year!

Janine Burke-Wells, NEWEA President
Amy Anderson, NEWEA Program Committee Chair

NEWEA 2018 EXECUTIVE COMMITTEE

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

WEF Delegate (10/15) Susan Sullivan
WEF Delegate (10/16) Frederick McNeill
WEF Delegate (10/17) Matthew Formica
WEF Delegate (10/18) Susan Guswa

State Directors

Connecticut Virgil Lloyd
Maine Clayton "Mac" Richardson
Massachusetts Justin deMello
New Hampshire Sean Greig
Rhode Island Scott Goodinson
Vermont Christopher Robinson

Council Directors

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

NEWEA 2018 COUNCILS

Vice President Council

Veterans Workforce Development* Dustin Price

Management Review Council

Assessment and Development Committee Charles Tyler
Awards Committee Michael Wilson
Bylaws Committee Phyllis Arnold Rand
Committee Member Appreciation Committee Denise Descheneau
Nominating Committee Matthew Formica
Sponsor Committee Dennis Vigliotte

NEWEA 2018 COUNCILS (CONTINUED)

Meeting Management Council

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

Communications Council

Journal Committee Joseph Boccadoro
Newsletter Committee Ashley Dunn
Public Awareness Committee Katelyn Biedron
Website Committee* Robert Musci

Treatment, Systems Operations, & Management Council

Asset Management Committee John Rogers
Energy Committee Denise Breitenreicher
Laboratory Practices Committee James Galasyn
Contaminates of Emerging
Concern Committee Rachel Watson
Operations Challenge Committee Travis Peaslee
Plant Operations Committee Thomas Hazlett
Residuals Management Committee Natalie Sierra
Small Community Committee Kurt Mailman
Utility Management Committee Gary Zrelak

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 Angela Blanchette
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 Leonard Young
Safety Committee David Wright
Scholarships Committee Udayarka Karra
Student Activities Committee Nick Tooker
Water for People Committee Renie Jesanis
Young Professionals Committee Ben Stoddard

* Ad hoc

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52 ALLEN STREET, NEW BRITAIN, CT 06053
366 HILL STREET, BIDDEFORD, ME 04005



Atlas Copco Blowers

NEWEA 2019

Authorized Dealer: Wescor Associates, Inc. Booth #481

Technical Session 28: Case Study of Blended Blower Technologies for Optimum Aeration Efficiency, Paul Peterson, Atlas Copco

atlascopco.com/air-usa




**JOIN US FOR THE
Committee Fair**

Interested in getting more involved with NEWEA? Stop by the Committee Fair, taking place outside the fourth-floor ballroom during the listed times, to learn more about the work our various committees do, the time commitment necessary to join, and how members benefit from their participation.

**Monday
1:30 – 3:30 PM**

**Tuesday
9:00 AM – 12:00 PM**

**Wednesday
9:00 – 11:00 AM**

*Outside Salon E
4th Floor*

*Must be a current NEWEA member to join a committee.



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deliver.**

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at booth #186**



NEWEA 2019 Spring Meeting & Exhibit

WATER'S WORTH IT INSPIRING THE WATER REVOLUTION



June 2–5, 2019 • Wentworth by the Sea • New Castle, New Hampshire

Call for presentations and papers

NEWEA invites the submission of abstracts for presentations for the upcoming 2019 Spring Meeting & Exhibit. This annual meeting consistently attracts more than 300 engineers, consultants, scientists, operators, and students, and features a variety of technical sessions, student presentations, exhibitor displays, and the Operations Challenge competition. It provides an opportunity for professional exchange of information and state-of-the-art concepts in wastewater treatment and water environment issues.

Visit newea.org and click **Submit an abstract** to complete the on-line abstract submittal form

Please consider submitting an abstract on water quality topics such as:

- Energy reuse
- Innovation
- Resiliency
- Climate change
- Sustainable clean water treatment

Abstract submission deadline
February 15, 2019

For more information contact the NEWEA office
Phone: 781-939-0908 • Email: mail@newea.org

It is NEWEA's policy that all participants and speakers are responsible for their own conference registration fee and other meeting-related expenses.



Meet



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New England Water Environment
Association Presents:

Let's Go All In

NEWEA 2019 Annual Conference & Exhibit

January 27–30, 2019
Boston Marriott Copley Place, Boston, MA

Conference Events

Sunday, January 27

Young Professionals Summit (Salon D, C, B)	10:00 AM–5:00 PM
New Committee Chair Orientation (Vineyard/Yarmouth)	10:30–Noon
Registration (4th Floor)	Noon–4:00 PM
Exhibit Hall Set-Up	Noon–6:00 PM
Executive Committee Meeting (Salon E)	Noon–3:30 PM

Monday, January 28

Registration (4th Floor)	7:00 AM–6:00 PM
Speakers' Breakfast (Hyannis)	7:30–8:30 AM
Coffee and Continental Breakfast (3rd Floor Atrium)	7:30–9:00 AM
Young Professionals Lounge (Vineyard/Yarmouth)	7:30–9:00 AM
The YP Committee will be hosting a Young Professionals Lounge Coordinator: Ben Stoddard, Kleinfelder	
NEWEA Annual Business Meeting (Falmouth)	8:00–8:30 AM
Welcome and Opening Remarks: Janine Burke-Wells, NEWEA President/Warwick Sewer Authority, Warwick, RI Presentation and vote on 2019 Slate of NEWEA Officers. <i>See description on page 49</i>	
Professional Poster Board Displays/Session (4th Floor)	8:30 AM–4:30 PM
Coordinator: Lauren Hertel, Woodard & Curran	
Session with authors	1:30–3:30 PM
Technical Sessions 1–6	8:30–10:30 AM
<i>See descriptions beginning on page 16</i>	

Monday, January 28 continued

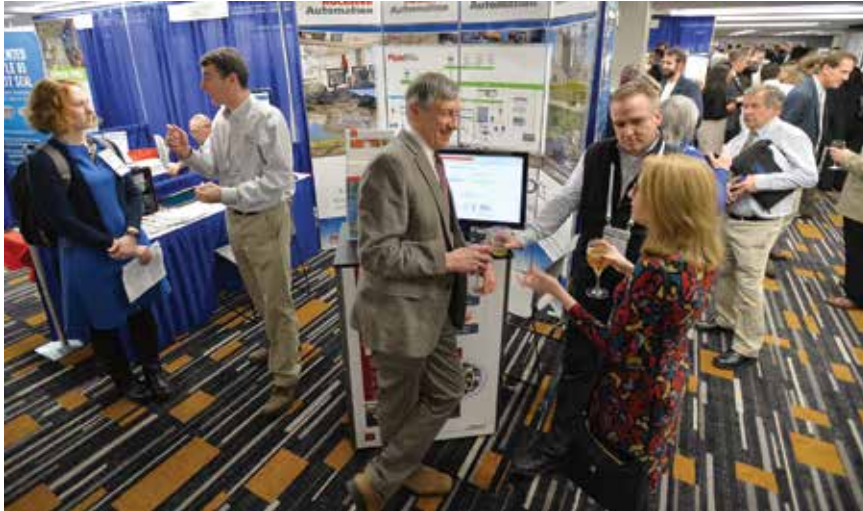
Exhibit Hall Grand Opening	10:30 AM
Paul P. Casey, Exhibits Committee Chair; Janine Burke-Wells, NEWEA President Grand Opening will take place at the main entrances of both the 3rd and 4th floor exhibit areas. Exhibits (3rd and 4th Floor Exhibit Areas) 10:30 AM–6:30 PM Please note that the 3rd and 4th floor exhibit areas are connected by a stairwell in the back of exhibit hall. <i>See list of exhibitors beginning on page 52</i>	
Opening Session (Salon E)	11:00 AM
<i>See description on page 15</i>	
Select Society of Sanitary Sludge Shovelers' Lunch	Noon–2:00 PM
by invitation – Charles Tyler, Influent Integrator (Dartmouth/Exeter)	
Technical Sessions 7–12	2:00–4:30 PM
<i>See descriptions beginning on page 19</i>	
Exhibit Hall Break	3:00–3:30 PM
Exhibit Hall Reception (3rd Floor Exhibit Area)	4:30–6:30 PM

Tuesday, January 29

Registration (4th Floor)	7:00 AM–6:00 PM
Speakers' Breakfast (Hyannis)	7:30–8:30 AM
NEWEA Presidents' Breakfast	8:00–9:00 AM
by invitation	
Innovation Pavilion (3rd Floor Atrium)	8:00 AM–4:00 PM
<i>See description on pages 36–37</i>	
Exhibits (3rd and 4th Floor Exhibit Areas)	8:00 AM–6:00 PM
Technical Sessions 13–18	9:00–11:30 AM
<i>See descriptions beginning on page 23</i>	
College Student Poster Board Displays/Competition	9:00 AM–4:00 PM
(3rd and 4th Floors) Session with authors 11:00 AM–12:30 PM	
Exhibit Hall Break	10:00–10:30 AM
Operator's Reception (Dartmouth/Exeter)	Noon–1:30 PM
Sponsored by: Connecticut Water Pollution Abatement Association Connecticut Water Pollution Control Association 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	
Technical Sessions 19–23	1:30–4:00 PM
<i>See descriptions beginning on page 26</i>	
Exhibit Hall Break	2:30–3:00 PM
Student Poster Awards (3rd Floor Atrium)	3:15–4:00 PM
Exhibit Hall Reception (4th Floor Exhibit Area)	4:00–6:00 PM

Wednesday, January 30

Registration (4th Floor).....	7:30 AM–2:00 PM
Speakers' Breakfast (Hyannis).....	7:30–8:30 AM
Exhibits (3rd and 4th Floor Exhibit Areas).....	8:00 AM–1:00 PM
Technical Sessions 24–29	8:30–11:00 AM
<i>See descriptions beginning on page 29</i>	
Exhibit Hall Break	9:30–10:00 AM
NEWEA Awards Ceremony and Lunch (Salon E)	11:00 AM–1:00 PM
Ticket required	
Exhibit Area Brunch	11:00 AM–1:00 PM
The exhibit area brunch will be held in both the 3rd and 4th floor exhibit areas.	
Technical Sessions 30–34	1:00–3:00 PM
<i>See descriptions beginning on page 32</i>	
Adjourn	3:00 PM



Opening Session

Welcome:

Janine Burke-Wells, NEWEA President,
Warwick Sewer Authority

Jackie Jarrell, WEF President-Elect,
Charlotte Water

Keynote Speaker:

Charles Sennott, The GroundTruth Project

Charles Sennott is the Founder, Chief Executive Officer, and Editor of The GroundTruth Project, a nonprofit and nonpartisan news organization committed to mentoring and supporting the development of journalists. GroundTruth's team reports on social justice issues across America and around the world, such as human rights, global health, and the environment.



Charles Sennott

Throughout his 30 years in international, national, and local reporting, Charles has covered regional issues, such as courts and municipal government, and international concerns, including post 9/11 conflicts in Afghanistan and Iraq. In addition to starting GroundTruth in 2014, Charles launched Report for America, GroundTruth's local reporting initiative, in 2017 and co-founded GlobalPost, an international news website.

Prior to establishing GroundTruth, he worked as a reporter at The New York Daily News and The Boston Globe, where he became Bureau Chief for the Middle East and Europe. Sennott also has worked as a correspondent for PBS FRONTLINE and PBS NewsHour and contributed news analysis to BBC, CNN, NPR, and MSNBC, among others. He earned a Master's degree in Journalism from Columbia University and was a Nieman Fellow at Harvard University.

Sessions 1–6
Monday
8:30–10:30 AM

Session 1

**Public Education:
Greening our
World: Community
Involvement in
Stormwater Quality
Improvements**

Moderators:

Allison McMordie,
Tighe & Bond
Danielle DiRuzza, MWRA

Suffolk

Session 2

**Utility Management 1:
Making Utilities
Resilient**

Moderators:

Jason Lavoie, Kleinfelder
Don Gallucci,
Weston & Sampson

Provincetown

Technical Sessions

**Real-Time, Continuous Monitoring of Green
Infrastructure at Boston's Middle Schools**

Genevieve Ho, OptiRTC
Kate England, Boston Water & Sewer Commission

**Approaches for Using Youth Education to Increasing
Stormwater Awareness**

Paul Mathisen, Worcester Polytechnic Institute
Corey Denenberg Dehner, Worcester Polytechnic
Institute

**Think Blue Massachusetts—A Statewide Stormwater
Awareness Campaign**

Kerry Reed, City of Framingham, MA/Massachusetts
Statewide Municipal Stormwater Coalition
Robin Craver, Town of Charlton, MA/Massachusetts
Statewide Municipal Stormwater Coalition
Eric Eckl, Water Words That Work, LLC

**Soak Up the Rain: NEWEA's 1st Community Service
Project**

Kate Roosa, Kleinfelder
Marc Weller, Pare Corporation
Sara Churgin, East Rhode Island Conservation District
Ben Stoddard, Kleinfelder

**Disaster Recovery: Response to a Major Fire at a
Water Resource Recovery Facility**

Jeff Kalmes, Town of Billerica, MA
Tom Hazlett, Woodard & Curran

**Smart City...Smart Water: How Newport News is
Leading Virginia's Smart Cities Efforts**

Jessica Hou, Gannett Fleming Engineers and
Architects, Inc

**City of Framingham's Emergency Preparedness, Risk
Management, and Business Continuity Planning**

James Barsanti, City of Framingham, MA
Kate Novick, Gradient Planning
Blake Lukis, City of Framingham, MA
Ashley Dunn, City of Framingham, MA
Stephen Leone, City of Framingham, MA

**Town of Ayer, MA: Resilient Strategies in a Rural
Non-coastal Community**

Jennifer Lachmayr, Arcadis
Mark Wetzell, Town of Ayer, MA

Monday
8:30–10:30 AM

Session 3

**Watershed
Management:
Solutions Without
Borders—Data
Collection and
Modeling for
Watershed
Management**

Moderators:

Jennifer Johnson,
Nitsch Engineering, Inc.
Sara Greenberg, GHD

Wellesley

Session 4

Government Affairs

Moderators:

Robert Fischer, City of
South Burlington, VT
Raymond Willis,
Onsite Engineering

C/D

Technical Sessions 1–6

**A Tale of Two Neighborhoods and Beyond – Climate
Change Preparedness and Resiliency Planning for
City of Cambridge**

Nathalie Beauvais, Kleinfelder
Indrani Ghosh, Kleinfelder
Katherine Watkins, City of Cambridge, MA

**A Watershed Permit to Facilitate Nitrogen
Management in Cape Cod's Pleasant Bay**

Michael Giggey, Wright-Pierce
Brian Dudley, MassDEP
Carole Ridley, Ridley Associates

**Condensing the Water Budget to Guide Planning
Efforts for Connecticut's Water Management**

Rebecca Guihan, CDM Smith
Kathryn Swanson, CDM Smith
Elaine Sistare, Town of Putnam, CT

Regress Me or Not Here AI Comes

Constantine Karos, CDM Smith
Joshua Registe, CDM Smith
Maryanne Taylor, CDM Smith
Ken Zegel, Suffolk County Department of Health
Services

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

Panelists:

Joseph Haberek, RI DEM
Rowland Denny, CT DEEP
Brian Kavanah, ME DEP
Susannah King, MassDEP
Shea Miller, VT DEC
Tracy Wood, NH DES

**NPDES Permit Renewal—What to Expect and How to
Prepare**

Michael Schrader, Tighe & Bond
Janet Moonan, Tighe & Bond

**Legislative Update: Massachusetts Bill Promoting
Climate Change Adaptation, Environmental and
Natural Resource Protection, and Investment in
Recreational Assets and Opportunity**

Steven Torres, West Group Law, PLLC
Jillian Jagling, West Group Law, PLLC
Teno West, West Group Law, PLLC

Monday
8:30–10:30 AM

Session 5

**Stormwater 1:
Not Knowing What You
Don't Know—Finding
a Path to a Resilient
Solution**

Moderators:

Kate Edwards, Arcadis
Patrick Gordon, StormTrap

Simmons

Session 6

**CSO/Wet Weather 1:
Combined Sewer
Overflow and Wet
Weather Plannings**

Moderators:

Rita Fordiani, Kleinfelder
David Gonclaves,
Mott MacDonald

A/B

Technical Sessions 1–6

**Evaluation of Street Flooding Solutions in a Highly
Transited Urban Area using a Detailed Flow
Dynamics 2D Model**

Yovanni Catano, Stantec
David Bedoya, Stantec

**An Integrated Approach to Resilience - Case Study in
Bridgeport, Connecticut**

Roni Deitz, Arcadis
Tyler Carson, Arcadis

**Humble Hummocks: Designing a “Hedge” against
Future Storm Surge**

Kirsten Ryan, Kleinfelder
David Kaplan, City of Cambridge, MA

**City of Medford: 2D Inundation Model and Flood
Mitigation Strategies**

Kenneth Yu, Kleinfelder
Alicia Hunt, City of Medford, MA

**Wet Weather Preparation the Massachusetts Water
Resources Authority**

Stephen Cullen, Massachusetts Water Resources
Authority
Charles Ryan, Massachusetts Water Resources
Authority

**What is in Your Data? Performing Data Analytics
to Quantify Seven Years of Sewer Rehabilitation
Projects for a Metro Boston Municipality**

Ayman Halaseh, CDM Smith

**Integrated Planning: Balancing What You are
Required to do With What You Must Do**

Joseph Laliberte, CDM Smith
Susan Negrelli, The Metropolitan District Commission

The West Lynn Sewer Separation Project

David VanHoven, Stantec
Anthony Marino, Lynn Water & Sewer Commission
Daniel O'Neill, Lynn Water & Sewer Commission

Sessions 7 – 12
Monday
2:00–4:30 PM

Session 7

**Plant Operations 1:
Pushing the Limit on
Phosphorus Removal**

Moderators:

Tom Hazlett,
Woodard & Curran
Nick Tooker,
UMass Amherst

A/B

Technical Sessions

**Leveraging Full-Scale Experience and Applied
Research for Ultralow TP with Ballasted
Sedimentation**

Patrick Dunlap, Black & Veatch
Jim Fitzpatrick, Black & Veatch
Will Walkup, Black & Veatch

**The Power of Partnering: Present and Future
Generations of Engineers and Operators Collaborate
on Hands-on State Point Clarifier Analysis Training**

Susan Guswa, Woodard & Curran
Todd Brown, University of Hartford

**Start-up and Optimization of a Tertiary Phosphorus
Removal System at Clinton WWTP**

Caitlin Hunt, Massachusetts Water Resources Authority
Shannon Beaton, Stantec
Ethan Wenger, Massachusetts Water Resources
Authority

**Chemical Precipitation as Primary, Polishing or Back-
up Process for Phosphorus Removal**

Jurek Patoczka, Mott MacDonald



Exhibit Hall Break
3:00–3:30 PM

Monday
2:00–4:30 PM

Session 8

Collection System 1: I/I Collection Systems

Moderators:
Peter Garvey, Dewberry
Anthony Maressa,
City of Fitchburg

C/D

Session 9

Asset Management 1: Optimize your Capital Cost Outputs—What Matters Most?

Moderator:
Dan Capano, Gannett
Fleming Engineers
John Sykora,
Weston & Sampson

Suffolk

Exhibit Hall Break
3:00–3:30 PM

Technical Sessions 7–12

Use of LIDAR Scanning and Other Innovative Condition Assessment Strategies to Guide Targeted Rehabilitation of the North Metropolitan Sewer

Benjamin Agrawal, Hazen and Sawyer
Charles Wilson, Hazen and Sawyer
Patricia Mallett, Massachusetts Water Resources
Authority
Kathleen McCue Cullen, Massachusetts Water
Resources Authority

Private Work, Public Benefit—How Installing Sump Pumps Relieved Neighborhood Sewer Backups

Katelyn Biedron, CDM Smith
Jason Waterbury, The Metropolitan District Commission
Chris Coyle, CDM Smith

Inflow and Infiltration Removal: Three communities, three approaches

Chris Henry, Mott MacDonald

Innovative, Real-Time Data Sharing Methods Create Efficiencies in Sewer Assessments on Nantucket

Daniel Kramer, Hazen and Sawyer
David Gray, Town of Nantucket, MA
Deborah Mahoney, Hazen and Sawyer
Charles Wilson, Hazen and Sawyer

Service Levels and Performance Management— Step 1 in the Asset Management Cycle

Kevin Campanella, Burgess & Niple, Inc.

Pairing Wastewater & Roadway Risk-Based Assessments to Prioritize South Portland, ME's Infrastructure Investments

Rachel Osborn, Woodard & Curran
Peter Lyons, Woodard & Curran
Brad Weeks, City of South Portland, ME

Assessing the Long-Term Financial Sustainability of Water Mains Using Monte-Carlo Simulation

Cris Perez, Kleinfelder

Use of an Asset Management Plan to Meet State Fiscal Sustainability Plan Requirements

Len Sekuler, Arcadis
Jason Waterbury, The Metropolitan District
Commission

Monday
2:00–4:30 PM

Session 10

Young Professionals: Addressing Technical and Staffing Changes

Moderators:
Rachel Watson, Stantec
Vanessa Borkowski,
Stantec

Simmons

Session 11

Sustainability 1: Mitigating the Risk and Adaptively Responding to Changing Conditions—Climates, Regulations and Beyond

Moderators:
Courtney Eaton, Kleinfelder
Wayne Bates, Tighe & Bond

Wellesley

Exhibit Hall Break
3:00–3:30 PM

Technical Sessions 7–12

Improving the Fort Point Channel—A Challenging IDDE Project in Boston, MA

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

Infusing Youth in the Water and Wastewater field

Landon Kendricks, Woodard & Curran

Phosphorus Removal at an SBR Plant

Paul Moran, Tighe & Bond
Kellie Rotunno, R2O Consulting

Hydraulic Capacity Assessment in City of Fitchburg

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

Climate Resilience Guidelines for the City of Boston

Julie Eaton, Weston & Sampson
Steven Roy, Weston & Sampson

Resilience Strategies for South Boston—Mitigating Risk through Partnerships

Kathryn Edwards, Arcadis
Mia Mansfield, City of Boston, MA

Massachusetts Water Resources Authority's Climate Change Strategy: A Commitment to Sustainability, Sea Level Rise Adaptation, and Energy Efficiency

Hillary Monahan, Massachusetts Water Resources
Authority

Traditional Engineering Solutions Become the Cornerstone of Adaptive Management Strategy— Falmouth Case Study

Sandra Tripp, GHD
Amy Lowell, Town of Falmouth, MA

Monday
2:00–4:30 PM

Session 12

Energy: Tried and True Projects that will Save Your Facility Energy and Money

Moderators:

Cynthia Castellon,
Tighe & Bond
Tracy Chouinard,
Brown and Caldwell

Provincetown

Technical Sessions 7–12

P3s and the Water-Energy Nexus—Opportunities for Water Sector Energy Projects

Bruce Tobey, Pannone Lopes Devereaux & O’Gara LLC
Sean McGinniss, The Horinko Group

Sustainable Wastewater Facilities—A Creative Approach to Energy Management and Cost Control

Carina Hart, JKMuir, LLC
David Newman, The ECG Group
Jen Muir, JK Muir, LLC
Kendra McQuilton, The ECG Group
Denis Cuevas, City of Waterbury, CT

Mixer Upgrades at the South Essex Sewerage District—A Successful Energy Reduction Project

David Michelsen, South Essex Sewerage District
Peter Pommersheim, South Essex Sewerage District

The Largest Cost Savings You Don’t Know About

Alexandra Rozen, JKMuir, LLC
Chelsea Conlon, JK Muir, LLC



Exhibit Hall Break
3:00–3:30 PM

Sessions 13–18
Tuesday
9:00–11:30 AM

Session 13

Asset Management 2: Condition Assessment, A Key to Sound Cost, Level of Service, Risk, Investment, Funding and Asset Decisions

Moderators:

John Jackman, Hoyle,
Tanner & Associates
Gary Arthur,
Fiberglass Institute

C/D

Session 14

Plant Operations 2: WRRF Upgrade and Case Studies

Moderators:

John Adie,
New Hampshire DES
Benjamin Levin,
Hazen and Sawyer

A/B

Exhibit Hall Break
10:00–10:30 AM

Technical Sessions

NEW Three 15-minute or quicker presentations followed by presenter panel discussion!

13.1—GOING FROM CONDITION TO RISK:

Predictive and Condition Assessment using Smart Technology

Rob Jordan, Hayes Pump

Collection System Condition and Risk using Asset Management Software and PACP

Ken Conaty, Town of Merrimack, NH

Capital Prediction based on Asset Management

Rod Lovely, Assetic

Q&A with speaker panel

13.2—INSPECTION PRACTICES FOR OWNERS:

Inspecting Fiberglass Assets and Emerging Regulations

Gary Arthur, Fiberglass Institute

Case Histories for Fiberglass Odor Control Assets

Dick Pope, Hazen and Sawyer

Case Histories for Other Fiberglass Assets

Randy Nixon, Corrosion Probe

Q&A with speaker panel

Morris Cove Pump Station VFD Rehabilitation

Paul Ketchum, Arcadis
Greg Bazydola, Arcadis
Brian Robinson, Flow Tech, Inc.

From Odors to Ocean Breezes—Tackling Odor Control Through Operational and Capital Improvements

Eric Kelley, Environmental Partners Group, Inc.
Christopher Pratt, City of Newburyport, MA
Robert Rafferty, Environmental Partners Group

WWTP Primary Clarifier/Thickener Upgrade

Frederick McNeill, City of Manchester, NH
Robert Robinson, City of Manchester, NH
David Mercier, Underwood Engineers, Inc.

Hydraulic Improvements and Lessons Learned with Upgrades to Two 75 ft Squirrel Secondary Clarifiers in Chicopee, MA

Jacob Weinrich, Tighe & Bond
Mike Williams, SUEZ

Tuesday
9:00–11:30 AM

Session 15

Utility Management 2: Effective Program Management

Moderators:

Tim Vadney, Wright-Pierce
Scott Firmin,
Portland Water District

Suffolk

Session 16

Operator Ingenuity: Wastewater Treatment Facilities throughout New England— A Virtual Tour from an Operator's Perspective

Moderators:

Helen Gordon,
Environmental Partners
Group
Elena Proakis Ellis,
City of Melrose, MA

Wellesley

Technical Sessions 13–18

Alternative Project Delivery for Water/Wastewater Facility Projects

Hillary Holmes, Stantec
Denise Descheneau, Upper Blackstone Clean Water

Evolution of a CMOM Program in Waterbury, CT

Julie Silva, Woodard & Curran

Public Utility Management A.S. and B.S. Degree Programs

Wesley Winterbottom, Gateway Community College
Janet Hayes, Gateway Community College

Program Management at DC Water—Value Added for Successful CIP Implementation

John Wujek, Mott MacDonald

Take a virtual tour of wastewater treatment facilities in all six New England states. Hear from the perspectives of operators across New England as they describe their facilities, provide insight on their operational successes and challenges, and share their experiences amongst other fellow operators:

Dana DiScuillo, Town of Narragansett, RI
Robert Fischer, City of South Burlington, VT
Daniel Munsey, Brunswick Sewer District
David St. Armand, City of Manchester, NH
Anthony Piazzi, Town of Simsbury, CT
Scott Urban, SUEZ

Exhibit Hall Break
10:00–10:30 AM

Tuesday
9:00–11:30 AM

Session 17

Residuals: Advances in Biosolids Planning and Treatments

Moderators:

Natalie Sierra,
Brown and Caldwell
Christopher Muller,
Brown and Caldwell

Simmons

Session 18

Safety: The Top 10 of Safety and Security

Moderators:

David Wright,
Weston & Sampson
David Horowitz,
Tighe & Bond

Provincetown

Exhibit Hall Break
10:00–10:30 AM

Technical Sessions 13–18

Integrating Sustainability into Biosolids Master Planning

Tracy Chouinard, Brown and Caldwell
Natalie Sierra, Brown and Caldwell
John Willis, Brown and Caldwell

Operations of a Thermal Hydrolysis and Digestion System

Peter Loomis, CDM Smith

Pyrolysis as an Innovative Technology for Microconstituent Removal from Biosolids

John Ross, Brown and Caldwell

Advanced Digestion and Biogas Handling— Planning, Design and Construction

Eric Spargimino, CDM Smith

OSHA Top Ten and How They May Impact Wastewater Treatment Facilities

David Horowitz, Tighe & Bond
Alan Stratton, Tighe & Bond

Bringing Better Security Practices to the Water Sector for a New Normal

Corinne Ketchum, Arcadis
Ryan Joyce, Arcadis

Most Common Fatalities

David Wright, Weston & Sampson

The Top 10!

David Wright, Weston & Sampson

Sessions 19 – 23
Tuesday
1:30–4:00 PM

Session 19

Plant Operations 3: WRRF Optimization Upgrades

Moderators:

Pamela Westgate,
Kleinfelder
Travis Peaslee,
Lewiston-Auburn WPCA

A/B

Session 20

Collection System 2: Pumping Resilience

Moderators:

Kara Johnston, CDM Smith
John Murphy, Stantec

C/D

Technical Sessions

Effects of Food to Microorganism (F/M) Ratio and Feast-Famine Condition on NO₂ Accumulation During Denitrification

Mehran Andalib, Stantec

Art Umble, Stantec

Amanda Ford, Hazen and Sawyer

Don't Stop Me Now: Implementing MBR Upgrades Without Interrupting Operations

Joshua Jondro, Woodard & Curran

Brent Sutter, Woodard & Curran

Sludge Settleability Improvements at the East End WWTF

Benjamin Levin, Hazen and Sawyer

Deborah Mahoney, Hazen and Sawyer

Paul Rodriguez, Portland Water District

Scott Firmin, Portland Water District

Optimizing Pumping Operations—Maintaining your Pumps will Help, but your Control System Can do Much Better

Frederick Mueller, Tighe & Bond

Retrofitting a Pump Station for Improved Performance, O&M, Aesthetics and Odor Control

Erik Osborn, Woodard & Curran

Sean Tarbox, Woodard & Curran

Approaches to Address Resiliency and Reduce Risk at Pump Stations

Amy Sowitcky, Tighe & Bond

Daniel Roop, Tighe & Bond

Westport's Pump Station No. 2 Force Main Replacement Project using HDD: A Case Study

Bryan Thompson, Town of Westport, CT

Abhinav Huli, Haley & Aldrich

Lori Carriero, Tighe & Bond

Improving Pump Station Resilience, City of Warwick, RI

Peter Calderazzo, Dewberry

Earl Bond, Warwick Sewer Authority

Tuesday
1:30–4:00 PM

Session 21

Industrial Wastewater: -- Resurgence of Industrial Wastewater Treatment and Regulatory Opportunities in 2018

Moderators:

Sarah White, UniFirst Corp.
Darrell Interest, LabCentral

Simmons

Session 22

Water Reuse: Water Reuse—Across the Country and in your Own Back Yard

Moderators:

Nick Ellis,
Hazen and Sawyer
Meredith Zona, Stantec

Provincetown

Technical Sessions 19–23

Maybe We Can Do This!! Beneficial Re-Use of a Nutrient-rich Wastewater

Michael Curtis, Quantum Biopower

Lessons Learned from Warwick's First Craft Brewery

BettyAnne Rogers, Warwick Sewer Authority

Debbie Hoyes, Arcadis

Regulations Playing Catchup on Sustainable Industrial Water Reuse

Edward Sharood, Woodard & Curran

An Innovative Approach to Brewery Waste Treatment at the Alchemist Brewery

Michael Smith, Weston & Sampson

Daniel Dair, World Water Works

Coast to Coast: Creative Water Reuse Options in the USA

Robert Little, Woodard & Curran

Save Water, Save Money—The Water Kaizen Blitz Process

Hope Matis, Arcadis

Evangelina Belia, Primodal Inc.

Acing the Aquifer: Field Methods to Help Keep the Budget Under-Par

Kathryn Swanson, CDM Smith

Karilyn Heisen, CDM Smith

Robert Schreiber, CDM Smith

Direct Water Reuse in New England— Today and Tomorrow

Bruce Douglas, NSU Water

Exhibit Hall Break
2:30–3:00 PM

Exhibit Hall Break
2:30–3:00 PM

Tuesday
1:30–4:00 PM

Session 23

**Stormwater 2:
Shades of Green &
Gray (and Beyond)—
Promoting GI & LID in
Design**

Moderators:
Marc Gabriel,
Nitsch Engineering, Inc.
Natalie Pommersheim,
Environmental Partners
Group

Suffolk

Technical Sessions 19–23

Massachusetts Watershed-based Tool for Statewide Watershed Planning

David Roman, Geosyntec Consultants
Andrea Braga, Geosyntec Consultants
Julia Keay, Geosyntec Consultants
Malcolm Harper, MassDEP

Underground Stormwater Detention and Rainwater Harvesting System for Northbrook Park District

Brett Holmes, StormTrap
Paul Siegfried, Baxter & Woodman Consulting
Engineers

Greening Springfield: Springfield's Green Infrastructure Technical Guide

Lori Kennedy, VHB
Matthew Sokop, City of Springfield, MA
Corrin Meise-Munns, Pioneer Valley Planning
Commission

Improving Resiliency in an Urban Industrial and Commercial Area Through Green and Grey Stormwater Infrastructure Planning and Assessment

Andrew Walker, Weston & Sampson
Steven Roy, Weston & Sampson

Sessions 24 – 29
Wednesday
8:30–11:00 AM

Session 24

**Small Community:
Coastal Solutions and
Outreach Approaches**

Moderators:
Chris Hayward,
Orenco Systems
Ian Catlow,
Tighe & Bond

Provincetown

Session 25

**Asset Management 3:
Big Data—How to
Efficiently Capture Data
and Use it Effectively**

Moderators:
Demetrios Vidalis, Boston
Water & Sewer Commission
John Rogers,
City of Framingham, MA

Suffolk

Technical Sessions

Engaging the Public on the Importance of Maintaining Municipal Infrastructure for a Small Community—A Public Outreach Success Story in Funding a Major Wastewater Infrastructure Upgrade

Marc Drainville, GHD
Benn Sherman, Town of Uxbridge, MA

Critical Success Factors to Locating Acceptable Effluent Recharge Sites

Karilyn Heisen, CDM Smith
Michaela Bogosh, CDM Smith
Jeff Colby, Town of Yarmouth, MA

Beginning Anew—A Collection System, Effluent Treatment Facility, and Effluent Disposal System Design from Scratch for a Small Cape Town

Tess Laffer, AECOM
Thomas Parece, AECOM

Fighting Floatables in Small Town Pump Stations

Rachel Schnabel, Fuss & O'Neill

Applying GIS & Business Intelligence Technology and Leveraging Big Data to Support More Effective Utility Management

Jayson Brennen, CDM Smith
Harry Finklea, West Virginia University

Sewer System Asset Data Collection with ESRI Mobile Apps

Peralie Burbank, City of Bangor, ME
Patrick Cowan, City of Bangor, ME

Quantified Efficiency and Enhancements of Day-to- Day Operations Utilizing an Enterprise Geographic Information System—"A Regional Authority's Perspective"

Ricardo Ceballos, Greater New Haven WPCA
Tony Yates, Langan
Brett Milburn, Langan

Tips and Tricks for Establishing a Thrifty Culvert Asset Management Program

Janet Moonan, Tighe & Bond
Eric Ohanian, Tighe & Bond
Daniel Nason, Town of Sudbury, MA
William O'Rourke, Town of Sudbury, MA

Exhibit Hall Break
2:30–3:00 PM

Exhibit Hall Break
9:30–10:00 AM

Wednesday
8:30–11:00 AM

Session 26

**Microconstituents:
Assessment and
Treatment of
Contaminants of
Emerging Concern**

Moderators:

Ned Beecher, NEBRA
Laurel Schaidler,
Silent Spring Institute

Simmons

Session 27

**Stormwater 3:
MS4 Compliance—
Panel Discussion
from all New England
Communities**

Moderators:

Zach Henderson,
Woodard & Curran
Kerry Reed, City of
Framingham, MA

C/D

Exhibit Hall Break
9:30–10:00 AM

Technical Sessions 24–29

**Assessment of Micro Plastics in Wastewater and
Drinking Water**

Dounia Elkhatab, University of Rhode Island
Vinka Oyanedel-Craver, University of Rhode Island

**First Time Use of Ozofractionation to Treat AFFF
Release and Validation by TOP Assay**

Allan Horneman, Arcadis
Jeff McDonough, Arcadis
Yousof Aly, Arcadis
Ian Ross, Arcadis

**Regulatory, Technical and Communication Challenges
for Licensed Environmental Remediation Professionals**
Nick Hastings, Woodard & Curran

**Lessons Learned in PFAS Water and Wastewater
Treatment from Half Way Around the World**

Marc Drainville, GHD
Anastasia Rudenko, GHD
Ali Farhat, GHD
Chris Hertle, GHD

This two-hour session will include a description of stormwater compliance program innovations from across the New England region. The session will be broken into two consecutive moderated panel discussions with each of the presenters providing insights on needs, challenges, and opportunities during stormwater compliance program delivery associated with their MS4 General Permit. The panel will be moderated with the intention of engaging the audience in active dialogue on innovations and opportunities. Topics and panelists include:

Working Together to Get More for Less

Tom DiPietro – South Burlington, VT's cooperative efforts with a neighboring Town
Jami Fitch, Town of Scarborough, ME – Building Multi-Town Community Support
Michael Dietz, UCONN – Building Tools for CT communities
Kerry Reed – Statewide Collaboration in MA

Overcoming Challenges in Construction and Post-construction Programs—Lessons Learned

Angela Blanchette, Scarborough, ME
Kara Falise, Cambridge, MA
Jamie Houle, UNH Stormwater Center
David Wheeler, South Burlington, VT

Wednesday
8:30–11:00 AM

Session 28

**Sustainability 2:
Considering Innovative
Strategies to Achieve
Improved Efficiency
and Sustainability**

Moderator:

Meredith Zona, Stantec
Robert Montenegro,
Grundfos

Wellesley

Session 29

**Collection System 3:
Rehabilitation Issues**

Moderators:

Scott Lander, Retain-It
David Pavlik,
Town of Lexington, MA

A/B

Exhibit Hall Break
9:30–10:00 AM

Technical Sessions 24–29

**Aiming for Envision Platinum in Advanced
Wastewater Treatment Plant Design -- Upper York
Sewage Servicing (UYSS) Water Reclamation Centre
Case Study**

Anastasia Rudenko, GHD
Dianna Senior, GHD
Adam Lachmann, Region Municipality of York

**Achieving Revenue Enhancement and Sustainability
Gains through Utility Efficiency**

Jay Sheehan, Woodard & Curran

**Beat Ultra-Low Phosphorus Targets with Reactive
Filtration: How Marlborough, MA Efficiently Meets
0.07 mg/L**

Nick Janous, Nexom

**Case Study of Blended Blower Technologies
for Optimum Aeration Efficiency**

Paul Petersen, Atlas Copco
Laurel Schaich, CDM Smith

A Penny (Road) Saved is a Lesson (L)earned

Ryan Henley, Weston & Sampson
Scott Dixon, City of Melrose, MA
Elena Proakis Ellis, City of Melrose, MA
John Potts, Weston & Sampson

**Narragansett Bay Commission Rehabilitation
of Large Diameter Brick Sewer with GeoSpray
Geopolymer Mortar**

Scott Naiva, Milliken Infrastructure
Meg Goulet, Narragansett Bay Commission
James Fleming, National Water Main Cleaning

**Beware of Cross Bores!—New NASSCO Guidelines
for Prevention and Detection**

Laurie Perkins, Wright-Pierce

**21st Century Solutions for 19th Century
Sewer Systems**

Tom Perry, Multi Utilities Ventures

Sessions 30 – 34
Wednesday
1:00–3:00 PM

Session 30

**Energy/Residuals:
Resource Recovery—
Maximizing Energy
Generation**

Moderators:

Tom Schwartz,
Woodard & Curran
Eric Spargimino, CDM Smith

Simmons

Session 31

**CSO/Wet Weather 2:
Green Wet Weather
Solutions**

Moderators:

Steve Perdios, Dewberry
Jason Kreil,
Woodard & Curran

Suffolk

Technical Sessions

**GLSD's Co-Digestion of Food Waste and its Path to
Net Zero Energy Use**

Richard Weare, Greater Lawrence Sanitary District
Ben Mosher, CDM Smith

**Next Generation Resource Recovery: Co-Digestion to
Renewable Natural Gas (RNG) Pipeline Injection at
the Des Moines WRF**

Dustin Craig, CDM Smith
Peter Loomis, CDM Smith
Laurel Schaich, CDM Smith

**Getting the Most Value from Digester Gas at
GNHWPCA's East Shore WPAF**

Jay Kemp, Black & Veatch

FOG to Biodiesel Pilot Facility

Justin Motta, Stantec
Richard Parnas, University of Connecticut

**The Solution to This Pollution is Bioswales—
Greater New Haven's Innovative Approach to CSO
Abatement**

Douglas Brisee, Fuss & O'Neill, Inc.
Erik Mas, Fuss & O'Neill

Green Stormwater Infrastructure for CSO Control

Bernadette Callahan, Stantec

**Analysis of the Implementation of City-Wide Green
Infrastructure Solutions to Address Combined Sewer
Overflow. Case Studies: New York City, Philadelphia,
and Cleveland**

Kathryn DePippo, Mott MacDonald
John Scheri, Mott MacDonald
Kellie Rotunno, R2O Consulting

**Flood Mitigation in the Birthplace of America: The
Cohocksink Storm Flood Relief Project**

Gary Snyder, Mott MacDonald

Wednesday
1:00–3:00 PM

Session 32

**Stormwater 4:
MS4 Compliance—
Building on Progress
Made as We Start a
New Chapter**

Moderators:

Virginia Roach, CDM Smith
Angela Blanchette,
Town of Scarborough, ME

A/B

Session 33

**Water For People:
Global Solutions for
Increasing Access to
Safe Water**

Moderators:

Renie Jesanis,
Massachusetts Water
Resources Authority
Tenzin Lama, MassDEP

Wellesley

Technical Sessions 30–34

**Heads or Tails—Where to Start Looking for Sewage
in Your Storm Drains**

Garrett Bergey, SDE, Inc.

RIDOT's Stormwater Program—Tracking Progress

Lauren Caputo, VHB
Cambria Ung, VHB

**Lessons from the Chesapeake Bay—Leveraging
Ecosystem Restoration TMDL Reduction Practices
for Comprehensive Resilient Solutions**

Glenn Muckley, Stantec
Doug Beisch, Stantec

**Boston's IDDE Program—Lessons Learned from 20
Years of Experience**

Amy Schofield, Boston Water and Sewer Commission
Garrett Bergey, SDE, Inc.

**Sustainable Engineering Solutions to Alleviate Water
Scarcity in Saviefe-Deme, Ghana**

Samantha LeValley, UMass Amherst
Victoria Hennon, UMass Amherst
Michael Andrick, UMass Amherst
Wayne Bates, Tighe & Bond

**Increasing the Water Security of the Island Republic
of Kiribati Through a Multi-Prong Approach**

Anastasia Rudenko, GHD
Phoebe Mack, GHD
Audrey Degnan, GHD

**Ovoid Ceramic Filters Evaluated for Improved Water
Purification in Developing Communities**

Zachary Shepard, University of Rhode Island
Elizabeth Lux, University of Rhode Island
Vinka Oyanedel-Craver, University of Rhode Island

Why are They all So Happy . . . It's in the Water

Rachel Watson, Stantec

Wednesday
1:00–3:00 PM

Session 34

Collection System 4: Tidal Issues

Moderators:

Ryan Wingard,
Wright-Pierce
Kara Keleher,
Weston & Sampson

C/D

Technical Sessions 30–34

Roxbury Canal Sewer Separation—The Boston Water and Sewer Commission's Continued Commitment to Environmental Stewardship and Infrastructure Reliability.

Michael Carroll, Stantec
Irene McSweeney, Boston Water & Sewer Commission
Daniel Kucharski, Stantec

Not on My Watch—Using CIPP to Ensure Disaster Doesn't Strike

Justin deMello, Woodard & Curran
Paul Costello, City of Quincy, MA

Identification and Removal of Tidal Intrusion Sources in Manchester-by-the-Sea's Wastewater Collection System

Allison Shivers, Tata & Howard, Inc.

Nantucket Sewers—Our Island Story

Laurie Toscano, Weston & Sampson
David Gray, Town of Nantucket, MA
Andrew Patnode, Weston & Sampson



**Help Build
Congressional
Support for Clean
Water in New England**

**Join NEWEA at the National Water Policy Fly-In
Water Week, April 3-4, 2019**

Come to the Capitol to join with WEF, NACWA, WRF 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 and the new House of Representatives have indicated strong support for investments in infrastructure.

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

On the uncertainty side, we expect the EPA to continue to look very different in 2019.

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

The Government Affairs Committee will work with attendees to organize the meeting and 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 Kick-Off Dinner on Wednesday, April 3—speakers will cover major water developments in Washington, tips for elected Congressional meetings and review NEWEA's talking points
- Meetings with Senators, Representatives and aides on Capitol Hill—Wednesday and Thursday
- Congressional Reception—Thursday evening, April 4

For more information call: Bob Fischer (802-658-7964),
Scott Firmin (207-774-5961 Ext. 3077), Ray Willis (508-341-8570)
or Mary Barry (781-939-0908)



Tuesday
8:00 AM – 4:00 PM

3rd Floor Atrium



Highlighting
leading **water-**
innovators and
innovations
in energy and
water quality—
including:
energy
generation,
energy
efficiency,
nutrients and
emerging
contaminants

NEWEA/NEWIN Innovation Pavilion

The New England Water Environment Association (NEWEA) and the Northeast Water Innovation Network (NEWIN) are excited to announce The Water Innovation Pavilion, taking place during the 2019 NEWEA Annual Conference in Boston.

NEWEA and NEWIN, which exists to highlight water-innovation as a super-cluster with over 300 companies in the community and throughout New England, modeled the Innovation Pavilion after a similar forum at the Water Environment Federation's (WEF) Annual Conference. This event was developed with the goal of building awareness, sharing ideas, and creating connections between businesses, utilities, regulators, and academics to drive innovation in our region. The close proximity of so many cities, utilities, businesses, and innovators who are passionate about water makes the Northeast unique in the water-cluster ecosystem in the United States.

We are pleased to highlight the leading water-innovators and innovations in two areas: Energy and Water Quality, which includes Energy Generation, Energy Efficiency, Nutrients and Emerging Contaminants. Come visit the Innovation Pavilion to meet with the innovators and learn about their developments. Members of The Massachusetts Clean Energy Center (MassCEC) and the Water & Energy Test Center, EPA Region 1, and the Water Research Foundation will also be in attendance.

Innovation Pavilion

Exhibitors

Aclarity
AquaVector
Canopus Water Technologies
Capro-X
FoliaWater
Mass CEC
PerOxygen
Resolute Marine Energy
WERF-LIFT
Wint
Xylem

SCHEDULE

8:00	Join us for coffee & danish pastries
8:30 – 9:00	Welcome: Research to Innovation Experience Panel
9:00 – 3:00	Student Posters representing Market Driven Research Stage
10:00 – 10:30	Innovation to Market Experience Panel
12:15 – 12:30	Natixis presentation— Environmental, Social and Governance (ESG) Driven Target Date Funds
12:30 – 1:30	Exhibitor Pitch Event
2:30 – 3:00	Market to Scale Experience Panel
3:00 – 3:15	Innovation Pavilion Closing remarks
3:15 – 4:00	Student Poster Awards
4:00 – 6:00	Exhibit Hall Reception (4th floor)

Join us as we hear from the Water Innovators of New England at the Innovation Pavilion

on Tuesday, January 29th on the 3rd floor Atrium. The Pavilion will highlight a selection of the most promising water technology businesses while championing an important dialogue about innovation. Come and meet with innovators; learn about their technologies; and listen to a panel discussion on Research to Innovation, Innovation to Market, or Market to Scale.

Thank you to our sponsors:



Monday
8:30 AM – 4:30 PM

Session with authors
1:30 – 3:30 PM

4th Floor

Professional Poster Board Displays

The Significance of Good Modeling on Design of Biological Nutrient Removal Processes with Influent Inhibitory Compounds

Christopher Andres, Stantec

Can't Reach Your Dirty Assets? Challenges of a Cross Country Collection System Cleaning and Assessment Program in Springfield, MA

Timothy Baril, Kleinfelder

Best Practices for BNR (Biological Nutrient Removal) Mixing

Ian Belczyk, Xylem Water Solutions

Mapping Out MS4 Compliance: Options and Approaches to Improve the MS4 Asset Inventory

Janelle Bonn, Woodard & Curran

Structural Polyurethane and Rehabilitation of America's Infrastructure

Rob Emmerson, Sprayroq, Inc.

Role of Ultrafiltration and Reverse Osmosis in Improving the Water Quality Index for Potable Water Reuse—A Case Study

Mohamed Hamoda, Kuwait University

Online Nitrite Monitoring for Efficient Removal of Nitrogen from Wastewater

Robert Smith, YSI – a Xylem brand

Enhancing Sustainability—Evaluation of Two Screening Technologies

Thomas Steinke, Parkson Corporation

Tuesday
9:00 AM – 4:00 PM

Session with authors
11:00 AM – 12:30 PM

4th Floor

Moderators:

Tom Groves

Jerry Hopcroft

Annalisa Onnis-Hayden

Nick Tooker

Undergraduate Student Poster Board Competition

Community Based Capstone Project: a Study and Reflection on Stormwater Management Maintenance

Annelise Boylan, Evan Raffi, Daniel Petrovic, Andrew Gaughan, Tarek Aldawalibi; Roger Williams University

The Bbanda Distribution System - Providing Clean, Accessible Water to the People of Bbanda, Uganda

Peter Botticello, Jeffery Ling, Allison Murray; Northeastern University

Wastewater Treatment Microbiology

Ryann Yearwood, Sultan Alyami; University of Hartford

Mycoremediation as a Removal Method for E. coli in Natural Systems

Tijana Cooley Ojaswi Aryal; Smith College

Zooplankton Mediated Removal of E. Coli in Natural Systems

Ruby Kohn, Tyler Feeney; Smith College

Understanding Biological Nitrogen Removal using Tidal Flow Constructed Wetland Technology for Wastewater Treatment and Water Reuse

Kestral Johnston; Northeastern University

Removal of Phosphorus in the New Hartford Treatment Plant

Denise Prussen, Matthew Garneau, Caitlin Cervello, Kaustubh Bhasm; University of Hartford

Phosphorus Removal: Springfield Regional Wastewater Treatment Facility

Stephen Tyler Arnold; University of Hartford

H2gO: Portable Water Treatment System

Isabella Silverman, Alexa Leone, Ian Hallman; University of Rhode Island

Pumps and Valves

Shaun Vasselin, Nick Kennedy, Robert Joie; University of Hartford

An Evaluation of Point of Use Water Treatment Methods

Hannah Wharton; UMass Amherst

The Effect of Acetate, Butyrate, and Propionate on the Efficiency of Double Chamber Microbial Fuel Cells

Isabella Cobble; UMass Amherst

Tuesday
9:00 AM – 4:00 PM

Session with authors
11:00 AM – 12:30 PM

3rd Floor

Moderators:

Tom Groves
Jerry Hopcroft
Annalisa Onnis-Hayden
Nick Tooker

Graduate Student Poster Board Competition

**Modeling of Beta Blocker Biotransformation by
Denitrifying Mixed Culture Communities**
Amy Hunter; Tufts University

**The Emergent Risk of Food Waste Recovery:
Characterizing the Contaminants in MSW Organics
from Different Sources**
Astha Thakali; University of Maine

**Method for and Characterization of Novel Anammox
Composition Reactor Chemistry to Support In-Situ
Sensing for Real-Time Process Controls**
Umang Chauhan; Northeastern University

**The Resiliency and Performance of Oxygenic
Photogranules Under Light-Induced Stress
Conditions**
Sam Downes; UMass Amherst

**Bench Scale Examination of Acid Mine Drainage
Addition to Municipal Wastewater for Co-treatment**
Charles Spellman Jr., Travis Tasker, Joseph Goodwill,
William Strosnider; University of Rhode Island

**Managing Disinfection Byproduct Formation Using
an Energy Efficient LED-UV Disinfection System**
Hichem Hadjeres; University of Rhode Island

**Exploring the Potential of Citizen Science through
Evaluation of Commercial Water Quality Test Kits**
LeighAnn D'Andrea; UMass Amherst

**Real-time *in situ* Monitoring of Water and Air
Flow Velocity Using Flat Flexible Thin Mm-sized
Resistance-Typed Sensor Film (MRSF)**
Yingzheng Fan; University of Connecticut

**Real-time, *in situ* Monitoring of Nitrogen Dynamics
in Wastewater Treatment Processes Using Wireless,
Solid-State, and Ion-Selective Membrane (S-ISM)
sensors**
Yuankai Huang; University of Connecticut

**Closing the Knowledge Gaps in Intermittent Water
Supply: An Experimental Lab-scale Pipeloop for the
Investigation of Intermittent Water Supply**
Mariam Alkattan; UMass Amherst

Moderators

SESSION	Moderator	Affiliation
1.....	Allison McMordie	Tighe & Bond
1.....	Danielle DiRuzza	MWRA
2.....	Jason Lavoie	Kleinfelder
2.....	Don Gallucci	Weston & Sampson
3.....	Jennifer Johnson	Nitsch Engineering
3.....	Sara Greenberg.....	GHD
4.....	Robert Fischer	City of South Burlington, VT
4.....	Raymond Willis	Onsite Engineering
5.....	Kate Edwards	Arcadis
5.....	Patrick Gordon.....	StormTrap
6.....	Rita Fordiani	Kleinfelder
6.....	David Goncalves	Mott MacDonald
7.....	Tom Hazlett	Woodard & Curran
7.....	Nick Tooker	UMass Amherst
8.....	Peter Garvey	Dewberry
8.....	Anthony Maressa	City of Fitchburg, MA
9.....	Dan Capano	Gannett Fleming Engineers
9.....	John Sykora	Weston & Sampson
10.....	Rachel Watson.....	Stantec
10.....	Vanessa Borkowski	Stantec
11.....	Courtney Eaton	Kleinfelder
11.....	Wayne Bates	Tighe & Bond
12.....	Cynthia Castellon.....	Tighe & Bond
12.....	Tracy Chouinard.....	Brown and Caldwell
13.....	John Jackman.....	Hoyle, Tanner & Associates
13.....	Gary Arthur	Fiberglass Institute
14.....	John Adie.....	New Hampshire DES
14.....	Benjamin Levin	Hazen and Sawyer
15.....	Tim Vadney.....	Wright-Pierce
15.....	Scott Firmin	Portland Water District
16.....	Helen Gordon	Environmental Partners Group
16.....	Elena Proakis Ellis.....	City of Melrose, MA
17.....	Natalie Sierra	Brown and Caldwell
17.....	Christopher Muller	Brown and Caldwell
18.....	David Wright.....	Weston & Sampson
18.....	David Horowitz	Tighe & Bond
19.....	Pamela Westgate	Kleinfelder
19.....	Travis Peaslee.....	Lewiston-Auburn WPCA
20.....	Kara Johnston.....	CDM Smith
20.....	John Murphy	Stantec
21.....	Sarah White	UniFirst Corp.
21.....	Darrell Interest	LabCentral

SESSION	MODERATOR	AFFILIATION
22	Nick Ellis	Hazen and Sawyer
22	Meredith Zona	Stantec
23	Marc Gabriel	Nitsch Engineering
23	Natalie Pommersheim	Environmental Partners Group
24	Chris Hayward	Orenco Systems
24	Ian Catlow	Tighe & Bond
25	Demetrios Vidalis	Boston Water & Sewer Commission
25	John Rogers	City of Framingham, MA
26	Ned Beecher	NEBRA
26	Laurel Schaidler	Silent Spring Institute
27	Zach Henderson	Woodard & Curran
27	Kerry Reed	City of Framingham, MA
28	Meredith Zona	Stantec
28	Rob Montenegro	Grundfos
29	Scott Lander	Retain-It
29	David Pavlik	Town of Lexington, MA
30	Tom Schwartz	Woodard & Curran
30	Eric Spargimino	CDM Smith
31	Steve Perdios	Dewberry
31	Jason Kreil	Woodard & Curran
32	Ginny Roach	CDM Smith
32	Angela Blanchette	Town of Scarborough, ME
33	Renie Jsanis	MWRA
33	Tenzin Lama	MassDEP
34	Ryan Wingard	Wright-Pierce
34	Kara Keleher	Weston & Sampson

Presenters

PRESENTER	AFFILIATION	SESSION NO.
Benjamin Agrawal	Hazen and Sawyer	8
Yousof Aly	Arcadis	26
Mehran Andalib	Stantec	19, 33
Michael Andrick	UMass Amherst	33
Gary Arthur	Fiberglass Institute	13
James Barsanti	Framingham Public Works	2
Wayne Bates	Tighe & Bond	33
Greg Bazydola	Arcadis	14
Nathalie Beauvais	Kleinfelder	3
Shannon Beaton	Stantec	7
David Bedoya	Stantec	5
Doug Beisch	Stantec	32
Evangelina Belia	Primodal Inc.	22
Garrett Bergey	SDE, Inc.	32
Katelyn Biedron	CDM Smith	8
Angela Blanchette	Town of Scarborough, ME	27
Michaela Bogosh	CDM Smith	24
Earl Bond	Warwick Sewer Authority	20
Andrea Braga	Geosyntec Consultants	23
Jayson Brennen	CDM Smith	25
Douglas Brisee	Fuss & O'Neill, Inc.	31
Todd Brown	University of Hartford	7
Peralie Burbank	City of Bangor, ME	25
Peter Calderazzo	Dewberry	20
Bernadette Callahan	Stantec	31
Kevin Campanella	Burgess & Niple, Inc.	9
Lauren Caputo	VHB	32
Lori Carriero	Tighe & Bond	20
Michael Carroll	Stantec	34
Tyler Carson	Arcadis	5
Cynthia Castellon	Tighe & Bond	12
Yovanni Catano	Stantec	5
Ricardo Ceballos	Greater New Haven WPCA	25
Tracy Chouinard	Brown and Caldwell	12, 17
Sara Churgin	East Rhode Island Conservation District	1
Jeff Colby	Town of Yarmouth, MA	24
Ken Conaty	Town of Merrimack, NH	13
Chelsea Conlon	JKMuir, LLC	12
Matthew Corbin	Wright-Pierce	10
Paul Costello	City of Quincy, MA	34
Patrick Cowan	City of Bangor, ME	25
Chris Coyle	CDM Smith	8
Dustin Craig	CDM Smith	30

PRESENTER	AFFILIATION	SESSION NO.
Robin Craver.....	Town of Charlton, MA/Massachusetts Statewide Municipal Stormwater Coalition.....	1
Denis Cuevas	City of Waterbury, CT.....	12
Stephen Cullen	Massachusetts Water Resources Authority	6
Michael Curtis.....	Quantum Biopower.....	21
Daniel Dair.....	World Water Works	21
Audrey Degnan.....	GHD	33
Corey Denenberg Dehner.....	Worcester Polytechnic	1
Roni Deitz	Arcadis	5
Justin deMello	Woodard & Curran	34
Rowland Denny.....	CT DEEP.....	4
Kathryn DePippo.....	Mott MacDonald	31
Denise Descheneau	Upper Blackstone Clean Water	15
Michael Dietz	University of Connecticut	27
Tom DiPietro	City of South Burlington, VT	27
Dana DiScullo.....	Town of Narragansett, RI.....	16
Scott Dixon.....	City of Melrose, MA.....	29
Bruce Douglas.....	Natural Systems Utilities.....	22
Marc Drainville	GHD	24, 26
Brian Dudley	MassDEP.....	3
Patrick Dunlap.....	Black & Veatch	7
Ashley Dunn	City of Framingham, MA	2
Julie Eaton.....	Weston & Sampson.....	11
Eric Eckl.....	Water Words That Work, LLC.....	1
Kathryn Edwards.....	Arcadis	11
Dounia Elkhatib.....	University of Rhode Island.....	26
Kate England	Boston Water & Sewer Commission.....	1
Kara Falise.....	City of Cambridge, MA.....	27
Ali Farhat.....	GHD	26
Harry Finklea	West Virginia University.....	25
Scott Firmin	Portland Water District	19
Robert Fischer.....	City of South Burlington, VT	16
Jami Fitch	Town of Scarborough, ME.....	27
Jim Fitzpatrick	Black & Veatch	7
James Fleming.....	National Water Main Cleaning	29
Amanda Ford.....	Hazen and Sawyer.....	19
Indrani Ghosh	Kleinfelder	3
Michael Giggey	Wright-Pierce	3
Meg Goulet	Narragansett Bay Commission	29
David Gray.....	Town of Nantucket, MA.....	8, 34
Rebecca Guihan	CDM Smith	3
Susan Guswa	Woodard & Curran	7
Ayman Halaseh.....	CDM Smith	6
Joseph Haberek	RI DEM.....	4
Malcolm Harper	MassDEP.....	23
Carina Hart.....	JKMuir, LLC.....	12
Nick Hastings	Woodard & Curran	26
Janet Hayes.....	Gateway Community College	15

PRESENTER	AFFILIATION	SESSION NO.
Tom Hazlett	Woodard & Curran	2
Karilyn Heisen	CDM Smith	24
Ryan Henley.....	Weston & Sampson.....	29
Victoria Hennon.....	UMass Amherst.....	33
Chris Henry	Mott MacDonald	8
Chris Hertle	GHD	26
Genevieve Ho	OptiRTC.....	1
Brett Holmes.....	StormTrap.....	23
Hillary Holmes	MHW Constructors.....	15
Allan Horneman	Arcadis	26
David Horowitz.....	Tighe & Bond.....	18
Jessica Hou.....	Gannett Fleming Engineers and Architects, Inc.....	2
Jamie Houle.....	University of New Hampshire Stormwater Center.....	27
Debbie Hoyes	Arcadis	21
Abhinav Huli.....	Haley & Aldrich	20
Alicia Hunt	City of Medford, MA.....	5
Caitlin Hunt	Massachusetts Water Resources Authority	7
Jonnas Jacques.....	Kleinfelder	10
Jillian Jagling	West Group Law, PLLC.....	4
Nick Janous	Nexom	28
Charlie Jewell.....	Boston Water and Sewer Commission	10
Chandler Johnson.....	World Water Works	21
Joshua Jondro.....	Woodard & Curran	19
Rob Jordan.....	Hayes Pump.....	13
Ryan Joyce.....	Arcadis	18
Jeff Kalmes.....	Town of Billerica, MA	2
David Kaplan.....	City of Cambridge, MA.....	5
Constantine Karos.....	CDM Smith	3
Brian Kavanah	ME DEP	4
Julia Keay	Geosyntec Consultants.....	23
Eric Kelley.....	Environmental Partners Group.....	14
Jay Kemp	Black & Veatch	30
Landon Kendricks.....	Woodard & Curran	10
Lori Kennedy.....	VHB.....	23
Corinne Ketchum.....	Arcadis	18
Paul Ketchum.....	Arcadis	14
Susannah King	MassDEP.....	4
Daniel Kramer.....	Hazen and Sawyer.....	8
Daniel Kucharski.....	Stantec	34
Adam Lachmann.....	Region Municipality of York	28
Jennifer Lachmayr.....	Arcadis	2
Tess Laffer	AECOM	24
Joseph Laliberte	CDM Smith	6
Stephen Leone.....	City of Framingham, MA	2
Samantha LeValley.....	UMass Amherst.....	33
Benjamin Levin.....	Hazen and Sawyer.....	19
Robert Little.....	Woodard & Curran	22
Peter Loomis.....	CDM Smith	17, 30

PRESENTER	AFFILIATION	SESSION NO.
Rod Lovely.....	Assetic.....	13
Amy Lowell.....	Town of Falmouth, MA	11
Blake Lukis.....	City of Framingham, MA	2
Elizabeth Lux.....	University of Rhode Island.....	33
Peter Lyons.....	Woodard & Curran	9
Phoebe Mack	GHD	33
Deborah Mahoney	Hazen and Sawyer.....	8, 19
Patricia Mallett.....	Massachusetts Water Resources Authority	8
Mia Mansfield	City of Boston, MA	11
Anthony Marino	Lynn Water & Sewer Commission	6
Erik Mas.....	Fuss & O'Neill.....	31
Paul Mathisen	Worcester Polytechnic Institute	1
Hope Matis.....	Arcadis	22
Jeff McDonough	Arcadis	26
Sean McGinniss	The Horinko Group	12
Frederick McNeill	City of Manchester, NH.....	14
Kendra McQuilton.....	The ECG Group.....	12
Irene McSweeney.....	Boston Water and Sewer Commission	34
Kathleen McCue Cullen.....	Massachusetts Water Resources Authority	8
Corrin Meise-Munns	Pioneer Valley Planning Commissio.....	23
David Mercier	Underwood Engineers, Inc.	14
David Michelsen	South Essex Sewerage District.....	12
Brett Milburn	Langan.....	25
Shea Miller	VT DEC.....	4
Hillary Monahan.....	Massachusetts Water Resources Authority	11
Janet Moonan	Tighe & Bond.....	4, 25
Paul Moran	Tighe & Bond.....	10
Eliza Morrison	Wright-Pierce	10
Ben Mosher.....	CDM Smith	30
Justin Motta.....	Stantec	30
Glenn Muckley	Stantec	32
Frederick Mueller	Tighe & Bond.....	19
Jen Muir	JKMuir, LLC.....	12
Daniel Munsey	Brunswick Sewer District.....	16
Scott Naiva.....	Milliken Infrastructure.....	29
Daniel Nason	Town of Sudbury, MA.....	25
Susan Negrelli.....	The Metropolitan District Commission.....	6
David Newman.....	The ECG Group.....	12
Randy Nixon.....	Corrosion Probe	13
Kate Novick.....	Gradient Planning.....	2
Germana Nunes.....	Black & Veatch Canada	28
Daniel O'Neill.....	Lynn Water & Sewer Commission	6
William O'Rourke	Town of Sudbury, MA.....	25
Eric Ohanian	Tighe & Bond.....	25
Erik Osborn	Woodard & Curran	20
Rachel Osborn.....	Woodard & Curran	9
Vinka Oyanedel-Craver	University of Rhode Island.....	26, 33
Thomas Parece	AECOM	24

PRESENTER	AFFILIATION	SESSION NO.
Richard Parnas	University of Connecticut.....	30
Andrew Patnode	Weston & Sampson.....	34
Jurek Patoczka.....	Mott MacDonald	7
Cris Perez	Kleinfelder	9
Tom Perry.....	Multi Utilities Venture	29
Laurie Perkins	Wright-Pierce	29
Paul Petersen	Atlas Copco.....	28
David Peterson.....	Kleinfelder	10
Peter Pommersheim	South Essex Sewerage District.....	12
Dick Pope	Hazen and Sawyer.....	13
John Potts.....	Weston & Sampson.....	29
Christopher Pratt	City of Newburyport, MA.....	14
Elena Proakis Ellis	City of Melrose, MA	29
Robert Rafferty	Environmental Partners Group.....	14
Kerry Reed.....	City of Framingham, MA/Massachusetts Statewide Municipal Stormwater Coalition.....	1, 27
Joshua Registe.....	CDM Smith	3
Carole Ridley	Ridley Associates	3
Brian Robinson	Flow Tech, Inc.....	14
Robert Robinson	City of Manchester, NH.....	14
Paul Rodriguez	Portland Water District	19
BettyAnne Rogers	Warwick Sewer Authority	21
David Roman	Geosyntec Consultants.....	23
Daniel Roop	Tighe & Bond.....	20
Kate Roosa	Kleinfelder	1
Ian Ross.....	Arcadis	26
John Ross	Brown and Caldwell.....	17
Kellie Rotunno	R2O Consulting.....	10, 31
Steven Roy	Weston & Sampson.....	11, 23
Alexandra Rozen	JKMuir, LLC.....	12
Anastasia Rudenko.....	GHD	26, 28, 33
Charles Ryan.....	Massachusetts Water Resources Authority	6
Kirsten Ryan.....	Kleinfelder	5
Laurel Schaich.....	CDM Smith	28, 30
John Scheri	Mott MacDonald	31
Amy Schofield	Boston Water and Sewer Commission	10, 32
Rachel Schnabel	Fuss & O'Neill.....	24
Michael Schrader.....	Tighe & Bond.....	4
Robert Schreiber.....	CDM Smith	22
Len Sekuler	Arcadis	9
Dianna Senior.....	GHD	28
Edward Sharood	Woodard & Curran	21
Jay Sheehan	Woodard & Curran	28
Zachary Shepard	University of Rhode Island.....	33
Benn Sherman.....	Town of Uxbridge, MA.....	24
Allison Shivers.....	Tata & Howard, Inc.....	34
Paul Siegfried	Baxter & Woodman Consulting Engineers	23
Natalie Sierra	Brown and Caldwell.....	17

PRESENTER	AFFILIATION	SESSION NO.
Julie Silva.....	Woodard & Curran	15
Elaine Sistare	Town of Putnam, CT.....	3
Michael Smith	Weston & Sampson.....	21
Gary Snyder	Mott MacDonald	31
Matthew Sokop.....	City of Springfield, MA	23
Amy Sowitcky.....	Tighe & Bond.....	20
Eric Spargimino.....	CDM Smith	17
David St. Armand.....	City of Manchester, NH.....	16
Ben Stoddard	Kleinfelder	1
Alan Stratton	Tighe & Bond.....	18
Brent Sutter.....	Woodard & Curran	19
Kathryn Swanton	CDM Smith	3, 22
Sean Tarbox.....	Woodard & Curran	20
Maryanne Taylor	CDM Smith	3
Bryan Thompson	Town of Westport, CT	20
Bruce Tobey.....	Pannone Lopes Devereaux & O'Gara LLC.....	12
Steven Torres.....	West Group Law, PLLC	4
Laurie Toscano	Weston & Sampson.....	34
Sandra Tripp.....	GHD	11
Art Umble	Stantec	19
Cambria Ung.....	VHB.....	32
Scott Urban	SUEZ	16
David VanHoven.....	Stantec	6
Andrew Walker.....	Weston & Sampson.....	23
Will Walkup.....	Black & Veatch	7
Jason Waterbury.....	The Metropolitan District Commission.....	8, 9
Katherine Watkins	City of Cambridge, MA.....	3
Rachel Watson.....	Stantec	33
Richard Weare.....	Greater Lawrence Sanitary District.....	30
Brad Weeks.....	City of South Portland, ME	9
Jacob Weinrich.....	Tighe & Bond.....	14
Marc Weller	Pare Corporation	1
Ethan Wenger.....	Massachusetts Water Resources Authority	7
Teno West.....	West Group Law, PLLC	4
Mark Wetzel	Town of Ayer, MA.....	2
David Wheeler.....	City of South Burlington, VT.....	27
Mike Williams	SUEZ	14
John Willis	Brown and Caldwell.....	17
Charles Wilson	Hazen and Sawyer.....	8
Wesley Winterbottom.....	Gateway Community College	15
Tracy Wood	NH DES	4
David Wright	Weston & Sampson.....	18
John Wujek	Mott MacDonald	15
Tony Yates	Langan.....	25
Kenneth Yu.....	Kleinfelder	5
Ken Zegel	Suffolk County Department of Health Services.....	3

Annual Business Meeting

MONDAY, JANUARY 28
8:00–8:30 AM

Respectfully Submitted
by the NEWEA
Nominating Committee:
Matt Formica, Chair
Ray Willis
Jim Barsanti
Priscilla Bloomfield
Meg Tabacsko
All nominees have
indicated their
willingness to serve.

2019 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 28, 2019:

- Vice President – Virgil Lloyd
- Treasurer – Clayton “Mac” Richardson
- Council Director – Meeting Management – Katelyn Biedron
- Council Director – Treatment, Sys Operations, and Management – Philip Forzley
- WEF Delegate – James Barsanti
- Connecticut – William “Bill” Norton
- Maine Director – Jeffrey McBurnie
- New Hampshire Director – Steve Clifton

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

- President – Raymond Vermette
- President-Elect – Jennifer Kelly Lachmayr
- Past President – Janine Burke-Wells

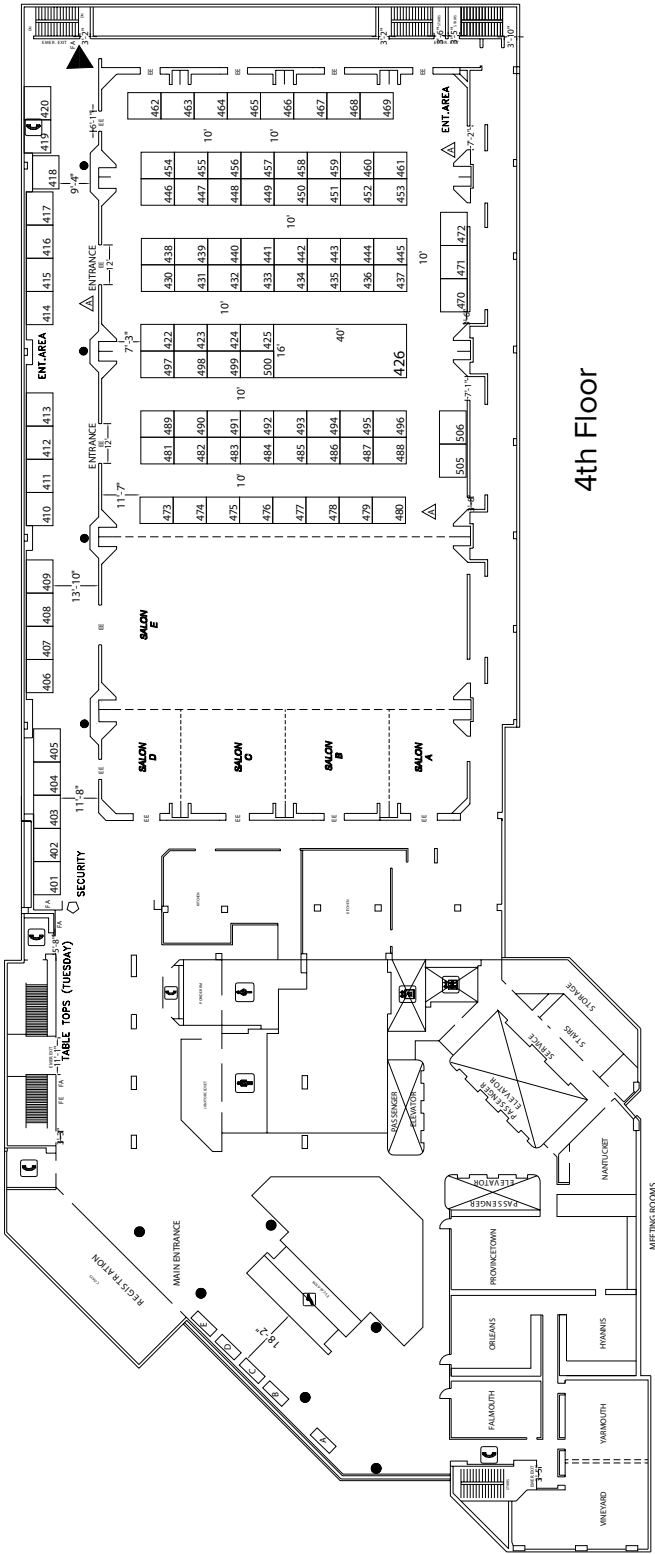
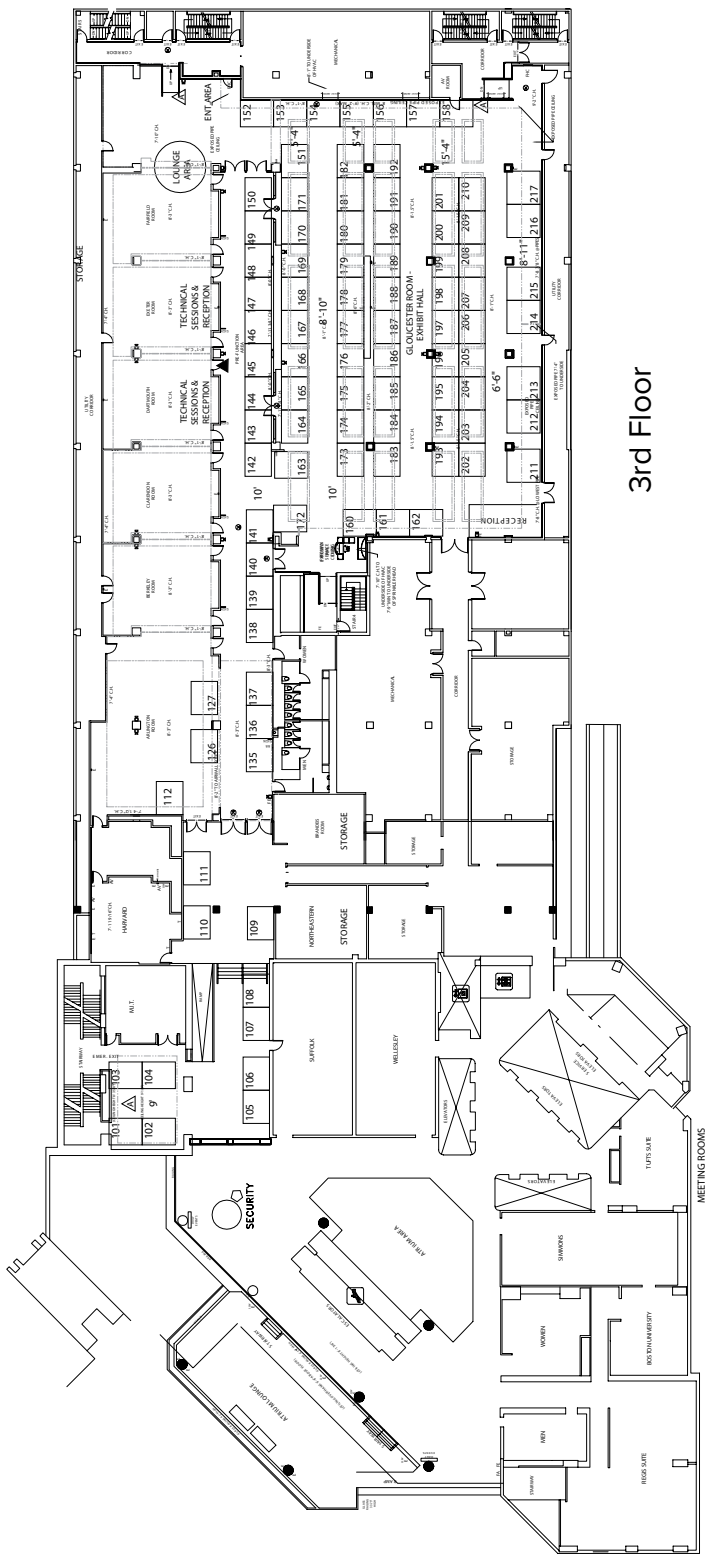
The remaining incumbents are fulfilling unexpired terms:

- WEF Delegate – Frederick McNeill (through WEFTEC 2019)
- WEF Delegate – Matthew Formica (through WEFTEC 2020)
- WEF Delegate – Susan Guswa (through WEFTEC 2021)
- Council Director – Collections Systems and Water Resources – John Digiacoimo (3rd year)
- Council Director – Communication – Meg Tabacsko (2nd year)
- Council Director – Outreach – Justin Skelly (2nd year)
- Massachusetts Director – Justin deMello (3rd year)
- Rhode Island State Director – Scott Goodinson (2nd year)
- Vermont State Director – Christopher Robinson (2nd year)

Treasurer Report—2018 Balance Sheet

Adjourn—Janine Burke-Wells, NEWEA President

Marriott Copley Place Hotel—NEWEA Conference Floor Plans



Exhibitors

ABBA Pump Parts & Service

Booth(s): 109

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

ABEL Pumps (Event Sponsor)

Booth(s): 199

What are you looking for in a pump? Sludge Pumps (up to 40% sludge);

Grit Pumps (up to 80% solids); Clarifier Underflow Pumps; Sludge Transfer Pumps;

Incinerator Feed Pumps; Truck Transfer Pumps; Grease Pumps; DAF Pumps; Air / Sludge Pumping; Belt and Filter Press Pumps; Solids Handling & Extreme Duty;

Contact: Steve Andrews, 600 N. Bell Ave. Bldg. 2, Ste. 250, Carnegie, PA 15106, tel: 973-294-5589, sandrews@abelpumps.com, www.abelpumps.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 providing early warning of blockages—preventing overflows and optimizing sewer cleaning.

Contact: Matthew Brown, 51 Wentworth Ave Ste. 15, Londonderry, NH 03053, tel: 256-337-2904, mbrown3@idexcorp.com, www.adsenv.com

Advanced Drainage Systems, Inc.

Booth(s): 138

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

Airvac – a brand of Aqseptence Group

Booth(s): 450

For nearly a century, Airvac, a brand of Aqseptence Group, has provided cost-effective wastewater collection solutions for existing communities, new land developments, commercial and industrial buildings, and the marine industry.

Contact: Philip Crincoli, 4217 North Old US Highway 31, Rochester, IN 46975, tel: 217-299-7942, philip.crincoli@aqseptence.com, www.aqseptence.com

Amphidrome® Advanced Treatment Solutions

Booth(s): 401, 402 403, 404, 405, 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 reuse quality effluent for irrigation and/or toilet flushing.

Contact: Andrew McBrearty, 273 Weymouth Street, Rockland MA 02370; tel. 781-982-9300, andrewmcbrearty@frmahony.com

ANUA

Booth(s): 482

Represented by Wescor Associates, ANUA provides Airshell odor biofiltration for municipal, industrial, & residential applications.

Contact: Casey Davis, 4106 Bernau Ave, Greensboro, NC 27407, tel: 336-547-9338, casey.davis@anuainternational.com

AP/M CentriPipe

Booth(s): 189

AP/M Permaform's CentriPipe® is the engineered centrifugally cast concrete pipe solution for cost-effective trenchless rehabilitation of deteriorated round, arched and elliptical CMP, brick, and RCP storm and sanitary sewer pipes.

Contact: Tom Perry, P.O. Box 555, Johnston, IA 50131, tel: 800-662-6465, info@permaform.net, www.centripipe.com

Aqua Solutions, Inc. (Gold Sponsor)

Booth(s): 444, 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 and equipment selection through installation, startup and service after the sale, we are committed to providing superior customer service and the right product for each application.

Contact: Jim Deluca, 154 W Grove St Ste D, Middleboro, MA 02346, tel: 508-947-5777, jdeluca@aquasolutionsinc.net, www.aquasolutionsinc.net

Aqua-Aerobic Systems, Inc.

Booth(s): 401, 402 403, 404, 405, 406

Offers Aqua ElectroOzone® Ozone Generation Systems, partnered with Metawater, Co., Ltd. and Pinnacle Ozone Solutions. Ozone treatment for water and wastewater has been utilized successfully for several decades and continues to be a viable disinfection solution for both municipal and industrial plants, worldwide.

Contact: Tom Miles, 6306 N. Alpine Rd., Loves Park, IL 61111, tel. 815-639-4463, tmiles@aqua-aerobic.com, Rep: F. R. Mahony & Associates, Inc.

Aquionics, Inc.

Booth(s): 401, 402 403, 404, 405, 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): 162

Aries Industries, Inc. manufactures inspection and rehabilitation equipment for underground infrastructure professionals, sewer pipeline equipment includes mainline and lateral video cameras, powerful tractors and complete systems. Rehabilitation equipment includes cutting and grouting systems.

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

Represented by Wescor Associates, 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, Tel: 229-516-0570, Tony@Chemscan.com

Asahi/America, Inc.

Booth(s): 435, 436

Asahi/America is the premier provider of thermoplastic fluid flow solutions for industrial, commercial and environmental applications. Asahi's piping systems, valves and actuators have been installed with confidence for our 40 years in a variety of industries including water and wastewater treatment, oil and gas, water parks and aquariums, landfills, semiconductor and pharmaceutical manufacturing, and chemical processing.

Contact: Joe Durning, 655 Andover St., Lawrence, MA 01843, tel: 781-321-5409, jdurning@asahi-america.com, www.asahi-america.com

Associated Electro-Mechanics, Inc.

Booth(s): 468

Associated Electro-Mechanics is a One-Stop industrial sales and service center, servicing MA, CT, VT, NH, ME, RI, PA, NJ, and Eastern NY market areas. Situated on 3.6 acres in Springfield, MA, the service shop is comprised of 84,000 square feet, including a 10,000 square foot, high bay building, serviced by a 35-ton overhead crane.

Contact: Mark DuBois, 185 Rowland St., Springfield, MA 01107, tel: 800-288-4276, mdubois@aemservices.com, www.aemservices.com

Atlantic Fluid Technologies, Inc.

Booth(s): 479, 480, 487, 488, 495, 496, 505, 506

Atlantic Fluid Technology is a manufacturer's representative serving the water and wastewater industry. We carry a full line of treatment process and fluid handling equipment.

Contact: Moji Amini, 354 West Boylston St., Ste 221, West Boylston, MA 01583, tel: 508-755-0440, moji@aftinc.com, www.aftinc.com

Atlas Copco (Event Sponsor)	Booth(s): 481
<p>Represented by Wescor Associates, 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.</p> <p>Contact: Paul Petersen, 3042 Southcross Blvd. Ste. 102, Rock Hill, SC 29730, Tel: 803-415-2564, Paul.Petersen@us.atlascopco.com</p>	
Autrol America	Booth(s): 423
<p>Autrol America brings an impressive line of very competitive smart process transmitters for differential pressure, flow, pressure & temperature. Hart programmable and/or complete configurable with built in push button programming. 100:1 turndown.</p> <p>Contact: James Birkenberger, 65 August Ave., Wolcott, CT 06716, tel: 203-879-6959, jamie@jwbcompany.net, www.jwbcompany.net Manufacturing Rep: JWB Company</p>	
Bal-Last™ Interlocking Ballast Systems	Booth(s): 401, 402 403, 404, 405, 406
<p>Bal-Last™ Interlocking Ballast Systems was developed as a safe and effective means to provide an efficient ballast solution for the installer of grinder pump basins. The original Bal-Last interlocking ballast block system improves the time, effort and expense of field constructed forms.</p> <p>Contact: Henry Albro, Townsend, MA 01474, 978-808-4986, henry@interlockingballast.com, Rep: F.R. Mahony & Associates, Inc.</p>	
BAU Hopkins	Booth(s): 422 – 425, 430 – 433
<p>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. BAU/HOPKINS has a close working relationship with the JWB Company.</p> <p>Contact: Alan Hopkins - ahopkins@bauhopkins.com, 508-699-9300 or Bob Hopkins - bhopkins@bauhopkins.com, 508-699-9300, www.bauhopkins.com</p>	
BDP Industries	Booth(s): 165
<p>Sludge thickening and dewatering technologies including screw press. Agitated bed in vessel biosolids composting.</p> <p>Contact: BDP Industries, PO Box 118, Greenwich, NY 12834, Dan Fronhoffer 518-527-5417, dan@bdpindustries.com, Rep: David F. Sullivan & Assoc., Inc</p>	
Biowaste Pyrolysis Solutions LLC	Booth(s): 204
<p>Biowaste Pyrolysis Solutions, LLC (BPS) uses cutting edge pyrolysis technology to convert dewatered sludge into energy and an inorganic sterile residue. Because of its compact size and high automation, systems sit at a given wastewater facility. Running 24/7, typical system will process roughly 40,000 tons/year and can generate 1 MW of electricity.</p> <p>Contact: Samuel Sylvestsky, 433 State St. 4th Fl, Schenectady, NY 12305, tel: 518-421-4130, sam.sylvestsky@gmail.com, www.biopyro.com</p>	
Blake Equipment	Booth(s): 466, 467
<p>NEWEA members throughout New England rely on the Blake Group, a full service distributor and manufacturer's representative of pumps, equipment, parts, and service. We also provide design assistance to provide Peak Performance Solutions for water and wastewater projects.</p> <p>Contact: Bob Klybas, 6 New Park Rd., East Windsor, CT 06088, tel: 860-218-1010, Bob.Klybas@bghusa.com, www.blakeequip.com</p>	
Blue Ribbon Corporation	Booth(s): 432
<p>Blue Ribbon offers submersible level transmitters for wastewater applications. Blue Ribbon invented the 1st cage style hydrostatic level transmitter called the "Birdcage" that has revolutionized level measurement in the most demanding sewage level monitoring applications. Products are made in the USA.</p> <p>Contact: James Birkenberger, JWB Company, 65 August Avenue, Wolcott, CT 06716, tel: 203-879-6959, jamie@jwbcompany.net, www.jwbcompany.net Manufacturing Rep: JWB Company</p>	

BMC Corp. (Event Sponsor)	Booth(s): 161
<p>Contact: Richard Corsetti, P.O. Box 60, Pinehurst, MA 01866, tel: 781-273-0398, rich@pipejetter.com, www.pipejetter.com/index.html</p>	
BNC Insurance Agency	Booth(s): 101
<p>We provide a full spectrum of insurance solutions for you and your company. We have made it our mission to understand New England's water and wastewater challenges. We provide the most accurate information to insurance underwriters to get you the right coverage to fit your budget.</p> <p>Contact: Alice Lara, 90 South Ridge St., Rye Brook, NY 10573, tel: 203-733-6908, alara@bncagency.com, www.bncagency.com</p>	
Boyson and Associates, Inc.	Booth(s): 497, 498, 499
<p>Contact: Brian Boyson, 2 Little Tree Rd., Medway, MA 02053, tel: 508-889-6371, brianjboyson@outlook.com</p>	
Carl Lueders & Company	Booth(s): 485
<p>Instrumentation & Controls</p> <p>Contact: Mark Lueders, 258 Main St. Unit #6, Medfield, MA 02052, tel: 508-358-7577, markalueders@cs.com, www.luederscompany.com</p>	
Carlsen Systems (Silver Sponsor)	Booth(s): 183
<p>Representing Sulzer/ABS, Grundfos, Peerless, PACO, USEMCO, Carbtrol, A3-USA, Powersmiths, & Toshiba</p> <p>Contact: Craig Burmeister, 176 Amity Rd. #102, Woodbridge, CT 06525, tel: 203-663-1314, cburmeister@carlsensystems.com, www.carlsensystems.com</p>	
Casella Organics (Event Sponsor)	Booth(s): 150
<p>Casella Organics is an industry leader in the transportation, recycling, processing and marketing of organic and mineral resources including biosolids, short paper fiber, ash, liming agents, food wastes, and compost.</p> <p>Contact: Patrick Ellis, 110 Main St. Ste. 1308, Saco, ME 04072, tel: 800-933-6474, Patrick.Ellis@casella.com, www.casellaorganics.com</p>	
CN Wood	Booth(s): 213
<p>C.N. Wood Co. has been a leading distributor of construction and environmental equipment for over 50 years with six locations throughout New England.</p> <p>Contact: Tom Fiore, 200 Merrimac St., Woburn, MA 01801, tel: 781-935-1919, tfiore@cn-wood.com, www.cn-wood.com</p>	
Coyne Chemical Environmental Services	Booth(s): 127
<p>Chemical distributor for all your wastewater treatment requirements along with the technical expertise to perform on site evaluations for all products offered.</p> <p>Contact: Dave Maugle, 3015 State Rd., Croydon, PA 19021, tel: 215-785-3000, dmaugle@coynechemical.com, www.coyneenvironmental.com</p>	
Cretex Specialty Products	Booth(s): 112
<p>Manhole and pipe rehabilitation products.</p> <p>Contact: Lee Haessig, N25 W23790 Commerce Cir. Ste. E, Waukesha, WI 53188, tel: 800-345-3764, info@cretexseals.com, www.cretexseals.com</p>	
CSI Controls	Booth(s): 417
<p>Dependable water and waste control solutions.</p> <p>Contact: Megan Harmon, 220 Ohio St., Asland, OH 44805, tel: 207-998-8100, megan.harmonco@gmail.com, www.csicontrols.com</p>	
CSL Services	Booth(s): 195
<p>CSL Services is an engineering field services company that specializes in wastewater collection systems flow monitoring and condition assessment. We offer our services primarily to municipal utilities and engineering firms. CSL is determined to provide the most accurate flow data possible.</p> <p>Contact: Sean Cohen, 7905 Browning Rd., Ste. 316, Pennsauken, NJ 08109, tel: 609-332-6439, scohen@cslservices.com, www.cslservices.com</p>	

CUES, Inc. (Event Sponsor)**Booth(s): 141**

As the world's leading manufacturer of water, wastewater, and stormwater inspection equipment, CUES provides the necessary tools for both pipeline inspection and repair. For 50+ years, CUES has manufactured the most rugged and reliable pipeline inspection equipment in the industry.

Contact: Richie Sheridan, 3600 Rio Vista Ave., Orlando, FL 32805, tel: 407-849-0190, rsheridan@cuesinc.com, www.cuesinc.com

David F. Sullivan & Assoc., Inc. (Bronze Sponsor)**Booth(s) #164–167 and 173–177**

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Contact: Dave Sullivan, 19 Batchelder Rd. Ste. 2B, Seabrook, NH 03874, tel: 603-474-2484, info@davidfsullivan.com, www.davidfsullivan.com

Denali Water Solutions**Booth(s): 494**

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, and Operations & Maintenance

Contact: Anita Dean, 3308 Bernice Ave, Russellville, AR 72802, tel: 987-979-5916, anita.dean@denaliwater.com, www.denaliwater.com

Diversified Infrastructure Services, Inc.**Booth(s): 191**

DIS provides survey services to the public and private sectors, services to the water/wastewater collection systems industry, energy and power delivery markets. Through acquisition of TRB & NEPCCO, we have been providing these services since 1982.

Contact: Jon Ziegler, 46 S. Rolling Meadows Dr., Fond DU Lac, WI 54937, tel: 920-579-4804, jziegler@disinc.us, www.disinc.us

DN Tanks**Booth(s): 478**

Wire-wound prestressed concrete tanks for water storage, wastewater storage and treatment, storm water, and digesters. Complete turn-key design and construction responsibility.

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

Duke's has sewer root control down to a science. Tree root infiltration is preventable, but without the proper maintenance steps, it will destroy a collection system. Using Duke's exclusive Razorooter® II – a diquat-based herbicide registered by the EPA for controlling roots in sewer systems.

Contact: Larry Aldrich, 1020 Hiawatha Blvd., West Syracuse, NY 13204, tel: 860-798-0982, larry@dukes.com, www.dukes.com

Duperon Corp.**Booth(s): 177**

Flex Rake fine screen, Low Flow screen, 2.0 mm perforated plate and Washer Compactor.

Contact: Duperon Corporation, 515 No. Washington, First Fl, Saginaw, MI 48607, tel: 989-754-8800, lbruns@duperon.com, Rep: David F. Sullivan & Assoc., Inc.

Eastern Pipe Service LLC**Booth(s): 171**

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

ElectroScan, Inc.**Booth(s): 430**

ElectroScan—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® & CriticalH2O® cloud applications that are revolutionizing how you collect & prioritize your data for repair & rehabilitation projects.

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

EMS New England**Booth(s): 205**

Manufacturer's Reps for MERSEN Fuses & Surge protection devices, MELTRIC switch rated plugs & connectors, HAMMOND MFG stainless steel, metal & non-metallic Nema enclosures, ALLIED MOULDED PRODUCTS non-metallic Nema enclosures...

Contact: Steven Graboski, 65 South Turnpike Rd., Wallingford, CT 06492, tel: 860-841-7141, sgraboski@emsnewengland.com, www.EMSnewengland.com

Enviro-Care Company**Booth(s): 410, 411, 412, 413, 473, 474, 481, 482, 489, 490**

Represented by Wescor Associates, 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: Matt Bodwell, 1570 St. Paul Ave, Gurnee, IL 60030, tel: 224-302-0309, MBodwell@enviro-care.com

Environment One Corporation**Booth(s): 401, 402 403, 404, 405, 406**

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. See us in Booths 401 through 406.

Contact: Christopher Nedwick, 2773 Balltown Rd, Niskayuna, NY 12309, tel: 518-596-2186, eone@eone.com, Rep: F.R. Mahony & Associates, Inc.

Environmental Operating Solutions, Inc. (EOSI)**Booth(s): 449**

Environmental Operating Solutions, Inc. (EOSI) offers non-hazardous, environmentally sustainable removable solutions. (Nitrogen / Phosphorus / Selenium / Perchlorate / BOD Supplementation)

Contact: Ben Smith, 160 MacArthur Blvd. Ste. 6, Bourne, MA 02532, tel: 508-322-3065, bsmith@microc.com, www.microc.com

EST Associates (Gold Sponsor)**Booth(s): 140**

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

Evoqua Water Technologies**Booth(s): 164**

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Contact: Rob Biase, 409 Hastings Dr., Cranberry Township, PA 16066, tel: 724-312-3336, Robert.biase@evoqua.com, Rep: David F. Sullivan & Assoc., Inc.

F. R. Mahony & Associates, Inc. (Event Sponsor)**Booth(s): 401, 402 403, 404, 405, 406**

We are a water and wastewater manufacturers' representative celebrating our 55th year serving New England. Our staff of experienced engineers provides a wide range of knowledge and expertise with a focus on a systems approach and customized solution for your application.

Contact: Ed Quann, 273 Weymouth St., Rockland, MA 02370, tel: 781-982-9300, edquann@frmahony.com, www.frmahony.com

F.W. WEBB Co. – Commercial & Ind Pump Div.**Booth(s): 217**

Contact: Tarad Nadeau, 3 Slater Rd., Cranston, RI 02920, tel: 207-432-0266, sls486@fwwebb.com, www.fwwebb.com

F.W. WEBB Co. – Process Controls Division**Booth(s): 216**

The Process Controls Division of F.W. Webb offers automated controls, over pressure protection, and engineered systems that are the brains of your industrial or municipal operation.

Contact: Mark Braatz, 37 Heywood Rd., Winslow, ME 04901, tel: 781-281-4119, mark.braatz@fwwebb.com, www.fwwebb.com/processcontrols

Flomotion Systems Inc.	Booth(s): 411
Represented by Wescor Associates, 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, tel: 800-909-3569, chucks@flomotionsystems.com	
Flottweg Separation Technology	Booth(s): 176
Flottweg Separation Technology is a manufacturer of dewatering and thickening centrifuges and has numerous US and New England installations. Innovative features include centrate energy recovery systems and easy to use independent VFP controls. Contact: John Yacilla, Downingtown, PA 19335, 484-796-3270, jyacilla@flottweg.net, Rep: David F. Sullivan & Assoc., Inc.	
Flow Assessment Services LLC (Platimun Sponsor)	Booth(s): 135, 136
Contact: Paul Casey, 72 Pricilla Lane, Auburn, NH 03032, tel: 603-396-4519, p2casey@flowassessment.com, www.flowassessment.com	
FLOW TECH, Inc. (Event Sponsor)	Booth(s): 186
Flow Tech, Inc. is a full-service manufacturer's representative for ABB variable frequency drives (VFDs) in the municipal, water and wastewater markets for all of New England. Contact: Larry Scola, 10 Bidwell Rd., South Windsor, CT 06074, tel: 860-291-8886, LScola@FlowTechInc.com, www.flowtechinc.com	
FlowWorks, Inc.	Booth(s): 443
A Seattle, Washington company, FlowWorks provides a cloud-based Software as a Service (SaaS) providing data management and analytical tools for the water/wastewater industry. Contact: Trent Kamins, 1001 4th Ave. #3200, Seattle, WA 98154, tel: 844-205-6973, tkamins@flowworks.com, www.flowworks.com	
Ford Hall Company	Booth(s): 177
Weir-Wolf st.st. spring-loaded brush systems for automated cleaning of weirs, baffles, and launders in circular mechanisms. Contact: Joy Lowery, Ford Hall Company, 301 Lower Hines Creek Rd., Richmond, KY 40476, tel: 859-624-1077, jlowery@fordhall.com, Rep: David F. Sullivan & Assoc., Inc.	
Franklin Miller Inc.	Booth(s): 401, 402 403, 404, 405, 406
An innovative force in wastewater grinding for in-line, open channel, septic receiving, screening technology, and gravity systems. See us in Booths 401 through 406. Contact: Joe Macula, 60 Okner Parkway, Livingston NJ 07039, tel: 973-533-6457, jmacula@franklinmiller.com, Rep: F.R. Mahony & Associates, Inc.	
G.A. Fleet	Booth(s): 111
G&G Enterprises	Booth(s): 416
G&G Enterprises and Fusion Environmental Solutions are companies that have developed and acquired an impressive lineup of products involved in the odor and grease control industry, manhole carbon filters, and wet well mixing and other mixing applications. Contact: Stephen Buckley, 1177-C Jefferson Blvd., Warwick, RI 02886, tel: 508-742-7324, sbuck1421@gmail.com, www.fusionenvironmentalsolutions.com	
Gabriel Novac & Associates	Booth(s): 166
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.	
Gardner Denver Nash	Booth(s): 401, 402 403, 404, 405, 406
For more than 155 years, Gardner Denver has been a leading global provider of compressors, blowers and vacuum pumps. Contact: Rob Mears, Tel: 905-361-6562 or 416-763-4681, robert.mears@gardnerdenver.com, Rep: F.R. Mahony & Associates, Inc.	

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Green Mountain Pipeline Services	Booth(s): 442
Offering a wide range of Pipeline Rehabilitation Services to meet your trenchless pipeline needs. Contact: Ray Bahr, 768 South Main St. Unit 1, Bethel, VT 05032, tel: 860-986-1072, ray@greenmountainpipe.com, www.greenmountainpipe.com	
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Groth	Booth(s): 166
Groth offers biogas safety and recovery products such as Digester Cover Protection Equipment, Biogas Safety Control Equipment and Waste Gas Burner Systems. Contact: Joe Kareivis, 3160 W. Hartford Dr. Liberty, MO 46046, jkareivis@contdisc.com, Rep: David F. Sullivan & Assoc., Inc.	
Grundfos Water Utility, Inc.	Booth(s): 167
Grundfos and its legacy brands provide a comprehensive range of optimized solutions for North American Water Utility Industry. From raw water intake and drinking water treatment to water distribution, stormwater and wastewater treatment, Grundfos is a full-line supplier of reliable products. Contact: Robert Montenegro, 3905 Enterprise Ct, Aurora, IL 60504, tel: 475-202-3699, rmontenegro@grundfos.com, Rep: David F. Sullivan & Assoc., Inc.	
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Hach Flow Group – Collection Systems Flowmeters & Equipment. Both Permanent & Portable Open Channel Collection & Monitoring System, including wireless and internet based solutions. Turnkey flow monitoring via DDS (Data Delivery Services) providing a hands-off approach to sewage flow data collection. Contact: Alan Hopkins - ahopkins@bauhopkins.com, 508-699-9300 or Bob Hopkins - bhopkins@bauhopkins.com, 508-699-9300, www.bauhopkins.com, Manufacturing Rep: BAU/HOPKINS & JWB COMPANY	
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HammerHead® Trenchless, a Charles Machine Works Company, of Lake Mills, Wisconsin, USA manufactures and delivers a unique combination of repair, rehabilitation and installation equipment and consumables for the underground construction market. Contact: Gregg Conklin, 500 South CP Ave., Lake Mills, WI 53551, tel: 920-650-5441, gconklin@hhtrenchless.com, www.hammerheadtrenchless.com	
Hayes Pump, Inc. (Bronze Sponsor)	Booth(s): 470, 471, 472
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Hazen and Sawyer (Silver Sponsor) Engineering Consulting Services Contact: Deb Mahoney, 24 Federal St., 5th Fl, Boston, MA 02110, tel: 617.574.4747, dmahoney@hazenandsawyer.com, www.hazenandsawyer.com	Booth(s): 139
Hidrogerson & Glasco	Booth(s): 425
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J.F. McDermott Corporation J.F. McDermott is a stocking dealer representing some of the top manufacturers in the water and waste water industry and serving all of New England. Our product line includes Envirosight camera systems, Sewer Equipment of America jetting, vacuum, & combination machines, Stoneage Nozzles, Duracable, Rigid, Cherne and Global Street Sweepers. Contact: Brendan Kennedy, 1235 Auburn St., Whitman, MA 02382, tel: 508-580-7740, brendan@jfmcdermott.com, www.jfmcdermott.com	Booth(s): 419
J&R Sales and Service, Inc. J&R Sales and Service, Inc. (J&R) is a manufacturers representative for two onsite wastewater treatment technologies. J&R represents BioMicrobics and GEOFLOW throughout New England in sales, installation support, and warranty issues. Contact: Lauren Usilton, 44 Commercial St., Raynham, MA 02767, tel: 508-823-9566, info@jrsalesinc.com, www.jrsalesinc.com	Booth(s): 414
JDV Equipment Corp. Represented by Wescor Associates, JDV Equipment Corp. is a leading manufacturer and provider of safe, environmentally friendly processing equipment and services for water treatment, wastewater treatment, industrial & agricultural applications. Contact: Bob Abbott, One Princeton Ave, Dover, NJ 07801, tel: 973-366-6556 x101, sales@jdvequipment.com	Booth(s): 410
JWB Company (Event Sponsor) JWB is a Manufacturer's representative covering the 6 New England States. JWB Product line focus in on Instrumentation and Controls. JWB Co. specializes in SCADA, telemetry, level, flow, pressure and analytical instrumentation. JWB has a close working relationship with BAU/HOPKINS. Contact: James Birkenberger, JWB Company, 65 August Avenue, Wolcott, CT 06716, tel: 203-879-6959, jamie@jwbcompany.net, www.jwbcompany.net	Booth(s): 425A
Kaeser Compressors, Inc. Kaeser Compressors, Inc., offers a complete line of air system products. Kaeser understands the important requirements wastewater treatment plant designers and operators consider when evaluating and selecting blowers and compressed air equipment. Contact: Stephan Dagovitz, Senior Manager-Municipal Sales-Kaeser Omega Blowers, tel. 540-898-5500, stephan.dagovitz@kaeser.com, Rep: F. R. Mahony & Associates, Inc.	Booth(s): 401, 402 403, 404, 405, 406
Kemira Contact: Catherine Brosseau, tel: 514-601-5785, catherine.brosseau@kemira.com, www.kemira.com	Booth(s): 484
Kruger Kruger, Veolia's US Municipal Solutions, offers innovative, efficient & compact solutions including clarification, separation, biosolids & biological solutions with low installation costs and rapid startup, optimizing energy and savings. Contact: Tabitha Atkinson, 4001 Weston Pkwy, Cary, NC 27513, tel: 919-677-8310, usmunicipal@veolia.com, Rep: F.R. Mahony & Associates, Inc.	Booth(s): 401, 402 403, 404, 405, 406
Kubota Kubota provides MBR technology using their own flat sheet Submerged Membrane Unit. Contact: Kevin Crane, 11807 No. Creek Pkwy 5, Ste. 3109, Bothell, WA 98011, tel:425-381-3604, kevin.crane@kubota.com, Rep: David F. Sullivan & Assoc., Inc.	Booth(s): 174
LandTech Consultants, Inc. LandTech Consultants utilizes 3D laser scanning, 3D modeling and UAV applications to document existing conditions and identify infrastructure conflicts prior to construction. Accurate dimensioning data allows for better design and prefabrication—minimizing the downtime of an online facility. Contact: Shelagh Hennessey, 515 Groton Rd., Westford, MA 01886, tel: 978-692-6100, shennessey@landtechinc.com, www.landtechinc.com	Booth(s): 137
Layne Represented by Wescor Associates, Layne provides cost effective water treatment solutions. Layne & Sumitomo Electric Industries partner to offer the biggest innovation in hollow-fiber wastewater membranes in the last 10 years—POREFLOW. Contact: Michael Busch, 1800 Hughes Landing Blvd, Ste. 800, The Woodlands, TX 77380	Booth(s): 410, 411, 412, 413, 473, 474, 481, 482, 489, 490

LG Sonic	Booth(s): 200
<p>Since 1999, LG Sonic has been a leading international manufacturer of chemical-free algae control and biofouling prevention systems. Our latest innovation, the MPC-Buoy, is a floating, solar powered, platform that combines real-time water quality monitoring, web-based software, and ultrasound technology to control harmful algal blooms in large water surfaces.</p> <p>Contact: Greg Eiffert, 201 Lackawanna Ave. Ste. 222, Scranton, PA 18503, tel: 833-547-6642, g.eiffert@lgsonic.com, www.lgsonic.com</p>	
LLumin, Inc.	Booth(s): 208
<p>LLumin's asset and maintenance management software, READYAsset, 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, facilities, or locations on a map.</p> <p>Contact: Ed Garibian, 59 Interstate Dr. Ste. 30, West Springfield, MA 01089, tel: 413-233-5404, ed@llumin.com, www.llumin.com</p>	
LMK Technologies	Booth(s): 187
<p>LMK Technologies has been a leader in trenchless Cured-In-Place-Pipe (CIPP) lining since 1993. LMK is recognized by many municipalities and engineering firms as the innovative leader for the trenchless renewal of sewer laterals, mainlines and manholes. LMK has over 100 patents and pending patent applications throughout the world.</p> <p>Contact: Dominic Golini, 1779 Chessie Lane, Ottawa, IL 61350, tel: 815-640-9302, jgass@lmktechnologies.com, www.lmktechnologies.com</p>	
Lonza ARCH Chemical	Booth(s): 410, 411, 412, 413, 473, 474, 481, 482, 489, 490
<p>Represented by Wescor Associates, Lonza ARCH Chemical Constant Chlor is a batching disinfection system. Waste water, if left untreated, is a major source of pollution for the environment. Our solutions are the technology of choice, helping to reduce odors, bacterial counts and organic content (residual COD) in the discharged effluent.</p> <p>Contact: Lou Finelli, 1400 Bluegrass Lakes Pkwy, Alpharetta, GA 30004, tel: 800-654-6019, louis.finelli@lonza.com</p>	
Lystek International, Inc.	Booth(s): 143
<p>Lystek is a leading provider of Thermal Hydrolysis solutions for the sustainable management of biosolids and organics. The multi-use, award-winning Lystek system reduces costs, volumes and GHG's by converting wastewater treatment facilities into resource recovery centers.</p> <p>Contact: Jim Belcastro, 125 McGovern Dr., Cambridge, ON N3H 4R7, tel: 226-444-0186, jbelcastro@lystek.com, www.Lystek.com</p>	
Maltz Sales Company	Booth(s): 160
<p>Maltz Sales Company, the leader in fluid handling for the municipal market in New England. Utilizing our industry leading product offerings we offer solutions for applications such as wet and dry pit submersible pumps, transfer pumps, plant water booster systems, chemical feed pumps, chemical storage tanks and mixers.</p> <p>Contact: Joe Witts, 67 Green St., Foxboro, MA 02035, tel: 508-203-2400, joew@maltzsales.com, www.maltzsales.com</p>	
Mechanical Solutions, Inc.	Booth(s): 102, 104
<p>MSI is a manufacturers' representative for high efficiency and reliable pumps, mixers & chemical feed and treatment systems for New England. Introducing the DeRagger, an anti ragging device that thru early detection prevents pump clogs to eliminate the down time from flush-able wipes.</p> <p>Contact: Gary MacDonald, P.O. Box 790, 121 Commerce Way, South Windsor, CT 06074, tel: 860-290-1564, gmacdonald@msipump.com, www.msipump.com</p>	
MGD Process Technology, Inc.	Booth(s): 401, 402 403, 404, 405, 406
<p>Wastewater Treatment Equipment and Engineering Manufacturers of Turborator® Self Aspirating Aerator/Mixer for municipal and industrial applications including sludge mixing and digestion and process mixing and aeration.</p> <p>Contact: Matthew Dickson, PO Box 654, Boylston, MA 01505, tel: 508-869-2164, Matt.Dickson@MGDProcess.com, Rep: F.R. Mahony & Associates, Inc.</p>	

Milliken Infrastructure Solutions	Booth(s): 215
<p>Milliken Infrastructure solves infrastructure repair challenges differently. More than just a materials provider, we partner with the industry to deliver a series of concrete and composite repair solutions for a variety of structures, from buildings and roadways to oil, gas and water pipelines.</p> <p>Contact: Scott Naiva, 920 Milliken Rd., Spartanburg, SC 29303, tel: 610-971-0362, scott.naiva@milliken.com, www.infrastructure.milliken.com</p>	
Mobile Sludge Dewatering Services.	
<p>Contact: Alyssa Newell, P.O. Box 577, Milton, VT 05468, tel: 802-524-7013, phsenesacinc@gmail.com, www.phsenesacinc.com</p>	
Motor Protection Electronics	Booth(s): 423
<p>MPE, Inc. manufactures phase monitors, voltage monitors, duplex alternators, intrinsically safe relays & industrial/municipal pumping controls for wastewater, water & control panel builders. Many replacement control parts for Flygt controls including MiniCas, offered at very competitive prices.</p> <p>Contact: James Birkenberger, JWB Company, 65 August Avenue, Wolcott, CT 06716, tel: 203-879-6959, jamie@jwbcompany.net, www.jwbcompany.net, Manufacturing Rep: JWB Company</p>	
National Filter Media	Booth(s): 126
<p>Contact: Randy Carlsen, 12 Winada Dr., Winthrop, ME 04364, tel: 207-377-2626, rcarlsen@nfm-filter.com, www.nfm-filter.com</p>	
National Water Main Cleaning Co.	Booth(s): 107, 108
<p>Contact: Dennis Sullivan, 25 Marshall St., Canton, MA 02021, tel: 781-828-0863, dennis@nwmcc-bos.com, www.nwmcc-bos.com</p>	
Netzsch	Booth(s): 424B
<p>Netzsch: Progressing Cavity, Rotary Lobe Pumps & Dual Shaft Grinders. NEMO brand of Progressing Cavity Pumps. TORNADO brand of Rotary Lobe Pumps</p> <p>Contact: Alan Hopkins - ahopkins@bauhopkins.com, 508-699-9300 or Bob Hopkins - bhopkins@bauhopkins.com, 508-699-9300, www.bauhopkins.com</p>	
NDS, Inc	Booth(s): C
<p>NDS, the brand trusted by professionals for performance, durability and ease of installation. NDS offers a broad range of high-quality and durable solutions for any size problem or project.</p> <p>Contact: 21300 Victory Blvd., Woodland Hills, CA 91367, tel: 888-825-4716,</p>	
New England Environmental Equipment	Booth(s): 438, 439, 440, 441, 446, 447, 448
<p>Serving clients since 1993, NE3 has over 1,300 Penn Valley Pumps in New England. Teledyne Isco portable and refrigerated samplers and flow meter. Red Valve Company pinch valves, knife gate valves, expansion joints. Tideflex check valves for stormwater and course bubble aeration.</p> <p>Contact: Robert Mack, 1 DeAngelo Dr, Bedford, MA 01730, tel: 781-275-1001, bob@ne3inc.com, www.ne3inc.com</p>	
Nivelco, USA	Booth(s): 431
<p>Nivelco, USA, is an undustry leader in non contact and contact level monitoring instrumentation. Technologies include ultrasonic, radar, & guide wave radar. Industry proven products include EchoTrek, MicroTrek, PiloTrek, EasyTrek & MultiCont.</p> <p>Contact: James Birkenberger, 65 August Ave., Wolcott, CT 06716, tel: 203-879-6959, jamie@jwbcompany.net, www.jwbcompany.net Manufacturing Rep: JWB Company</p>	
Novozymes	Booth(s): 103
<p>Novozymes is the world leader in biological solutions. Stop by our booth to learn about improving dewatering performance through the addition of hydrolytic enzymes.</p> <p>Contact: Matt Livingston, 5400 Corporate Cir., Salem, VA 24015, tel: 540-819-1969, MLIV@novozymes.com, www.novozymes.com/en</p>	
Oakson	Booth(s): 483
<p>The Perc-Rite® Drip Dispersal system is a non-invasive, flexible, and environmentally sensitive means of wastewater disposal, providing equal distribution across hundreds of application points throughout the dispersal field.</p> <p>Contact: Robert Sarmanian, 6 Sargent St, Gloucester, MA 01930, tel: 978-282-1322, rob@oakson.com, www.oakson.com</p>	

Ober-Read & Associates (Event Sponsor)**Booth(s): 214**

Ober-Read & Associates is the New England factory authorized distributor and service center for Gardner Denver Positive Displacement blowers for wastewater aeration. We stock blowers and parts to support wastewater treatment plants for Gardner Denver's Sutorbilt, Duroflow, Heliflow and Cycloblower series blower products.

Contact: Scott Strang, 31 Business Park Dr. Unit H, Branford, CT 06405, tel: 203-481-0341, sstrang@ober-read.com, www.ober-read.com

Opti Float/Cox Research**Booth(s): 423**

Opti Float—The Opti-Float® level detector is a revolutionary innovation in float switches. It's mercury and lead free and is built to last for years of service. Using fiber optic cable, it transmits a beam of light from an LED in a remote transceiver down to the float, where the beam makes and breaks depending on the tilt of the float.

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

Orenco Systems, Inc.**Booth(s): 172**

Designer and manufacturer of decentralized wastewater collection and treatment systems, as well as related products and technologies.

Contact: Christopher Hayward, 814 Airway Ave., Sutherlin, OR 97479, tel: 339-203-7397, chayward@orencos.com, www.orencos.com

P&H Senesac, Inc.**Booth(s): 202****Performance Chemicals LLC****Booth(s): 179**

Chemical Manufacturing.

Contact: Mike Currier, 40 Industrial Park Dr., Franklin, NH 03235, tel: 603-228-1200, cs@perfchem.us, www.perfchem.us

Philadelphia Mixers**Booth(s): 424A**

Philadelphia Mixers: Surface & Submerged Aerators, High Flow Low Shear Flocculators, Vertical Turbine Rapid Mixers, Sludge Blending Mixers

Contact: Alan Hopkins - ahopkins@bauhopkins.com, 508-699-9300 or Bob Hopkins - bhopkins@bauhopkins.com, 508-699-9300, www.bauhopkins.com

POND Technical**Booth(s): 434**

POND Technical has been providing water and waste water treatment solutions in New England since 1962, with world class instrumentation from Rosemount, Rosemount Analytical, Rosemount Flame & Gas Detection, Micro Motion, Ashcroft, Dynasonics, Fox Thermal, MTL, Eurotherm Chessell, Precision Digital, Emerson Machinery Health, Keystone, and Vanessa.

Contact: Bob Osnoe, 100 Sebethe Dr., Cromwell, CT 06416, tel: 860-316-2570, rosnoe@pondtechnical.com, www.pondtechnicalsales.com

Pribusin Inc.**Booth(s): 423**

Pribusin offers unique and unsurpassable telemetry products for the water & wastewater industry. Non licensed/licensed wireless, cellular, dial up and FSK telemetry systems so simple that programming is not required. I/O to I/O mirror, point to point and point to multipoint configurations. Pribusin also offers a full line of signal conditioners for every imaginable application.

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

Primex Controls**Booth(s): 418**

Nationally recognized leader of complete water and wastewater solutions. As a full-service water treatment solutions provider, systems integrator, and original equipment manufacturer, we offer a broad end-to-end suite of products and services

Contact: Megan Harmon, 22650 County Highway 6, Detroit Lakes, MN 56501, tel: 207-998-8100, megan.harmonco@gmail.com, www.primexcontrols.com

PrimOzone**Booth(s): 410, 411, 412, 413, 473, 474, 481, 482, 489, 490**

Represented by Wescor Associates, PrimOzone redefines ozone technology. Modular design with high concentration ozone production.

Contact: Ilaria Azzara, Terminalvagen 2 SE-246 42 Loddekoping, Sweden, info@primozone.com, +46 46 70 45 70

Pump Systems, Inc.**Booth(s): 486**

Contact: John Benham, P.O. Box 269, Franklin, NH 03235, tel: 603-934-7100, jbenham@pumpsystemsinc.com, www.PumpSystemsInc.com

Purafil**Booth(s): 401, 402 403, 404, 405, 406**

Manufacturers of dry chemical scrubbers for odor control, emergency chlorine scrubbers, control room odor, control and corrosion protection for electronic equipment.

Contact: Marketing, 2654 Weaver Way, Doraville, GA 30340, tel: 770-662-8545, marketing@purafil.com, Rep: F.R. Mahony & Associates, Inc.

Pure Technologies U.S. Inc.**Booth(s): 211**

Pure Technologies is a world leader in the development and application of innovative technologies for inspection, monitoring and management of water and wastewater networks.

Contact: Jeffrey Zdrojewski, 8920 State Route 108, Ste. D, Columbia, MD 21045, tel: 305-779-5629, jeffrey.zdrojewski@puretechltd.com, www.puretechltd.com

QED Environmental Systems, Inc.**Booth(s): 145**

QED Environmental Systems, Inc. is the leading manufacturer of innovative environmental pumping systems, landfill products, landfill gas products, and air strippers for use at landfills, mines, oil refineries and other industrial sites, as well as hazardous waste cleanup sites.

Contact: Joe Mauro, 2355 Bishop Cir. West, Dexter, MI 48130, tel: 201-675-4528, jmauro@qedenv.com, www.qedenv.com

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

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: Christopher Devaney, 41 Central St. P.O. Box 404, Auburn, MA 01501, tel: 508-832-3295, lrusso@rhwhite.com, www.rhwhite.com

RACO Manufacturing & Engineering Co.**Booth(s): 423**

RACO offers a complete line of systems for remote site monitoring that include phone line, Ethernet/OPC, cellular/wireless & internet based

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

Rain for Rent**Booth(s): 415**

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, www.rainforrent.com

RCAP Solutions, Inc.**Booth(s): 178**

OUR MISSION: To foster personal and public self-reliance and improve the quality of life for individuals, families and the communities in which they live. RCAP Solutions works with the communities and systems we serve.

Contact: James Starbard, 205 School St., Gardner, MA 01440, tel: 978-502-0227, jstarbaard@rcapsolutions.org, www.rcapsolutions.org

REA Resource Recovery Systems**Booth(s): 168**

Advanced revenue-generating technology for your Wastewater Treatment Facility . REA's patented reaction system converts Brown FOG to B100 Biodiesel. Our demonstration model is now up and running producing B100 Biodiesel at the Greater New Haven WTP in New Haven, CT

Contact: Alfonso Barbarotta, 925 White Plains Rd. Ste. 210, Trumbull, CT 06611, tel: 203-590-3838, al@rea-systems.com, www.rea-systems.com

Reliant Water Technologies **Booth(s): 401, 402 403, 404, 405, 406**
Reliant Water's WET WELL WIZARD Collection System Aeration is a cost effective and reliable answer to odor and FOG problems in wet wells.
Contact: Jim Dartez, 141 Robert E. Lee Blvd. #284, New Orleans, LA 70124, tel: 504-444-2200, jdartez@reliantwater.us.com Rep: F.R. Mahony & Associates, Inc.

Rezatec **Booth(s): 197**
Rezatec's Geospatial Artificial Intelligence (AI) solution for managing water quality provides a scalable, decision support tool for estimating diffuse pollution loads based on contemporary earth observation data and hydrological modelling.
Contact: Simon Haskell, Quad One Becquerel Ave., Harwell, UK OX11 0RA, tel: 01865 817500, info@rezatec.com, www.rezatec.com

RMClark **Booth(s): B**
Manufacturers representative agency offering solutions to the water industry. Focus includes electrical apparatus, transformers, VFD's, metering and power quality solutions. Additional solutions include secondary spill containment and vault maintenance/ dewatering solutions.
Contact: Dave Mullally, 221 East Main Street Ste 202, Millbury, MA 01757, tel: 508-435-6800, www.rmclark.com

Robert H. Wager Company, Inc. **Booth(s): 401, 402 403, 404, 405, 406**
Wager's Wastewater Division offers our customers a very unique line of Odor Control Vent Valves. These are designed to protect the environment from the hazards of H2S gas being emitted from lift stations, wet wells, gravity lines, and wastewater treatment plants.
Contact: Steve Carter, 570 Montroyal Rd, Rural Hall, NC 27045, tel: 336-969-6909, scarter@wagerusa.com, Rep: F.R. Mahony & Associates, Inc.

Rockwell Automation **Booth(s): 207**
Rockwell Automation, Inc., the world's largest company dedicated to industrial automation and information, makes its customers more productive and the world more sustainable.
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Russell Resources, Inc. **Booth(s): 454, 455, 456, 462, 463, 464**
Russell Resources is a full-service manufacturer's representative firm serving all of New England. We service everything we sell and will go the extra mile to make sure everything works perfectly. Our factory-trained team is here to help with your next project!
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Saf-T-Flo **Booth(s): 425B**
Specializes in manufacturing chemical injection quills, sampling probes for chemical feed systems in the municipal, industrial & commercial water treatment industries.
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Scavin Equipment Co. LLC (Event Sponsor) **Booth(s): 196**
Sewer Cleaning and Sewer Pipe Inspection Equipment
Contact: Jon Gotchis, 101 Roosevelt St., New Britain, CT 06051-4119, tel: 860-944-8340, jgotchis@scavinequip.com, www.scavinequipment.com

Schreiber **Booth(s): 422**
Process Equipment: Fuzzy Filters, Grit Removal Equipment, Clarifiers & Continuously Sequencing Reactor.
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Seepex, Inc. **Booth(s): 420**
SEEPEx is a leading worldwide specialist in water & wastewater pump technology. Our progressive cavity pumps, macerators and control systems are used wherever low to highly viscous, aggressive or abrasive media must be conveyed at low pulsation rates.
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Shea Concrete Products, Inc. **Booth(s): 457**
Shea Concrete Products, Inc. is a family owned and operated company celebrating its 70th Anniversary in 2019. We have grown to become one of New England's largest and most reputable precast concrete manufacturers.
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SmartCover Systems **Booth(s): 209**
SmartCover Systems provides Real-Time Condition Assessment to manage and protect collection system assets and operations. Operators gain collection system visibility through remote monitoring, advanced communications, delivering data and analytics to users via the cloud..
Contact: Phil Brenner, 2067 Wineridge Place, Ste. E, Escondido, CA 92029, tel: 760-291-1980, pbrenner@smartcoversystems.com, www.smartcoversystems.com

SNF Polydyne **Booth(s): 407**
SNF Polydyne is a wholly owned subsidiary of SNF HOLDING COMPANY, and is responsible for the direct marketing of products, equipment, applications expertise, and related services to the municipal potable water and wastewater markets in the United States.
Contact: Tim Terry, 1 Chemical Plant Rd., Riceboro, GA 31323, tel: 315-271-6840, tterry@polydyneinc.com, www.snf.us/markets-served/municipal

Spencer Turbine Co. **Booth(s): 433**
Aeration blowers including high-efficiency Power Mizer® cast centrifugal and high-speed AyrJet® turbo blowers featuring magnetic bearing technology. Customer engineered and fabricated gas pressure booster blowers and packages for digester and biogas applications.
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Spire Metering Technology **Booth(s): 206**
Water Utility Revenue, Distribution and Process Flow Metering. Energy Metering for Institutional, Commercial and Industrial Applications.
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Sprayroq, Inc. **Booth(s): 184**
Sprayroq develops and manufactures fast-curing structural and chemical-resistant polyurethane coatings for the rehabilitation and protection of underground infrastructure.
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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.
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Stacey DePasquale Engineering, Inc. **Booth(s): 451**
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, tel: 978-975-0500, sdepasquale@sde-inc.com, www.sde-inc.com

StormTank **Booth(s): 188**
StormTank products offer sustainable solutions that are widely-used across all forms of commercial, residential, and recreational stormwater management and pretreatment applications.
Contact: Sam Williamson, 621 Brentwood Dr., Reading, PA 19611, tel: 484-401-0401, swilliamson@stormtank.com, www.stormtank.com

StormTrap Booth(s): 147
StormTrap provides proven, leading-edge solutions for managing runoff, protecting waterways and improving property use. Our stormwater management portfolio includes detention, infiltration, rainwater harvesting and treatment products.
Contact: Patrick Gordon, 1287 Windham Pkwy., Romeoville, IL 60446, tel: 815 941 4549, pgordon@stormtrap.com, www.stormtrap.com

SUEZ (Gold Sponsor) Booth(s): 146
Water and Wastewater Contractor
Contact: Michael Burke, 1 Berkshire St., Holyoke, MA 01040, tel: 413-534-2222, Michael.Burke@Suez-NA.com, www.suez.com

Sullivan Associates/RITEC Booth(s): 458
Process control instrumentation and chemical feed equipment
Contact: Chris Williams, P.O. Box 514, East Boothbay, ME 04544, tel: 207-633-3111, chris.williams4@myfairpoint.net, www.ritecenvironmental.com

Synagro Northeast LLC (Silver Sponsor) Booth(s): 180
Founded in 1986, Synagro Technologies, Inc. provides environmentally sustainable solutions for commercial and municipal organizations that generate organic by-products. Synagro consistently transforms industrial and municipal waste into environmentally friendly resources that benefit our communities.
Contact: Pat Rimkoski, 435 Williams Court, Ste. 100, Baltimore, MD 21220, tel: 860-483-0160, primkoski@synagro.com, www.synagro.com

Technology Sales Associates, Inc. Booth(s): 426, 427, 428, 429, 501, 502, 503, 504
Contact: Michael Caso, 44 Central St Ste 5, Berlin, MA 01503, tel: 978-838-9998, mcaso@techsales.com

Ted Berry Company Booth(s): 110
The Ted Berry Company was founded in 1972 by Ted Berry. Today the business is still family owned and operated and provides services to both municipalities and industry throughout New England.
Contact: Peter Goodwin, 521 Federal Rd., Livermore, ME 04253, tel: 207-897-3348, peter.goodwin@tedberrycompany.com, www.tedberrycompany.com

TenCate Geotube Booth(s): A
TenCate, an international manufacturer of engineered textiles, manufactures Geotube® containers for building marine structures, containment and dewatering residuals, sediments and sludge. TenCate markets the Geotube® technology for environmental, mining, municipal, industrial and agricultural projects worldwide.
Contact: 3680 Mt Olive Rd., Commerce, GA 30529, www.tencategeo.us

The MAHER Corporation (Gold Sponsor) Booth(s): 152, 153, 154, 155, 156, 157, 158, 181
Please visit the following companies in Booths 152-158 & 181: Boerger, ClearStream, Parkson, Vapex, Hayward Gordon, Xylem, Trojan, Biorem, Watson Marlow, Brentwood Industries, Waco, Gea, Lakeside
Contact: Peter Kibble, 192 Pleasant St., Rockland, MA 02370, tel: 781-421-2600, pkibble@themahercorp.com, www.themahercorp.com

Thermal Process Systems Booth(s): 165
TPS offers biosolids management systems including high solids destruction and odor free Class A product. Also they provide an ammonia removal system that is applicable for aerobic and anaerobic digestion systems.
Contact: Eric Haslam, 7523 Route 20, Fabius, NY 13063, tel: 315-440-9750, ehaslam@thermalprocess.com, Rep: David F. Sullivan & Assoc., Inc.

Titus Industrial Group, Inc. Booth(s): 149
For over two decades TITUS® Industrial Group Inc. has been committed to providing innovative, effective solutions for Water, Wastewater, and Storm Water industries throughout North America.
Contact: Gina Lathan, 1450 NW Gardner Rd., Prineville, OR 97754, tel: 585-409-8009, gina@titusig.com, www.titusig.com

Toshiba Magnetic Flowmeters Booth(s): 423
Toshiba offers electromagnetic flowmeters & microwave density (consistency) analyzers. All Toshiba electromagnetic flow meters are backed by a 10-year warranty.
Contact: James Birkenberger, JWB Company, 65 August Avenue, Wolcott, CT 06716, tel: 203-879-6959, jamie@jwbcompany.net, www.jwbcompany.net, Manufacturing Rep: JWB Company

Truax Booth(s): D
We are a full-service catch basin and drain maintenance company. Our services include catch basin cleaning, storm drain maintenance, high-velocity pipe flushing, closed-circuit television inspections and lateral lining.

TruGrit Traction, Inc. Booth(s): 212
With over 30 years of combined experience engineering and testing Pipeline Video Inspection Equipment, TruGrit Traction has developed traction products, such as gritted cleats and carbide gritted wheels that have proven to optimize the performance of camera transporters and self propelled lateral reinstatement cutters in varying pipe types and conditions.
Contact: Tom Rebozo, P.O. Box 2084, Winter Park, FL 32790, tel: 619-797-7371, tomr@trugrittraction.com, www.trugrittraction.com

Trumbull Manufacturing, Inc. Booth(s): 194
Manufacturer of Waterworks tools, Valve Keys, waterworks brass, zinc anodes, polywrap, pipe restraints, valve box risers and rite height adapters, composite & polymer meter lids-frames, meter pit frames, composite manhole frames and covers 24"-38", Treatment plant products, valve accessories, chainwheels etc.
Contact: Victor Dasbach, 3850 Hendricks Rd., Youngstown, OH 44515, tel: 330-307-1217, vdasbach@trumbull.com, www.trumbull-mfg.com

Ultraflote LLC Booth(s): 489
Represented by Wescor Associates, Ultraflote is a worldwide leader in the design, manufacturing, & installation of the Ultradome Geodesic Dome, Quadseal Flat Cover, & Geotrust rectangular or square basin cover.
Contact: Matt Sumner, 3640 W 12th St, Houston, TX 77008, tel: 713-581-7851, msumner@ultraflote.com

Underground Inspection Technologies Booth(s): 203
Municipal and contractor equipment sales
Contact: Robert Terrazzano, 10 R Lowell St., North Billerica, MA 01862, tel: 978-447-3605, bobt@undertechsales.com, www.undergroundinspectiontechnologies.com

Unison Solutions Booth(s): 176
Unison is an industry leader in biogas conditioning systems. Their expertise includes purifying biogas for H2S removal, siloxane, and CO2.
Contact: Eric Wilgenbusch, 5451 Chavenelle Rd., Dubuque, IA 52002, tel: 563-585-0967, eric.wilgenbusch@unisonsolutions.com, Rep: David F. Sullivan & Assoc., Inc.

United Concrete Products, Inc. Booth(s): 169
Engineered Pump Stations and Prefabricated Buildings
Contact: Jonathan Duffy, 173 Church St., Yalesville, CT 06492, tel: 203-530-2716, jduffy@unitedconcrete.com, www.unitedconcrete.com

United Rentals Fluid Solutions Booth(s): 201
United Rentals Fluid Solutions brings together tanks, pumps, filters, and industry-leading engineering expertise to be your one-stop shop for every fluid need.
Contact: Wade Bergeron, 102 Old Worcester Rd., Oxford, MA 01540, tel: 774-276-7824, wbergeron@ur.com

USABUEBOOK Booth(s): 459
USABueBook 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.usabuebook.com.
Contact: Charlie Kayton, P.O. Box 9005, Gurnee, IL 60031, tel: 847-689-3000, ckayton@usabuebook.com, WWW.USABUEBOOK.COM

USP Technologies**Booth(s): 190**

We are a leading provider of peroxygen-based technologies and full-service chemical treatment programs for municipal and industrial water and wastewater treatment applications.

Contact: Inken Mello, 1375 Peachtree St NE Ste. 300N, Atlanta, GA 30309, tel: 858-245-7883, imello@usptechnologies.com, www.usptechnologies.com

Verder**Booth(s): 424B**

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.

Contact: Alan Hopkins - ahopkins@bauhopkins.com, 508-699-9300 or Bob Hopkins - bhopkins@bauhopkins.com, 508-699-9300, www.bauhopkins.com

VersaFlex/Raven**Booth(s): 170**

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: Jeff Croll, 13105 E 61st St. Ste A, Broken Arrow, OK 74012, tel: 918-899-0996, crollj@ravenlining.com, www.ravenlining.com

Vogelsang**Booth(s): 473**

Vogelsang designs, develops and manufactures a wide range of industry-leading products and systems for industrial, agricultural and municipal applications for the North & South American market. VX Rotary Lobe Pumps, RotaCuts, & X Ripper Grinders.

Contact: Tim Smith, 7966 State Route 44, Ravenna, OH 44266, tel: 800-984-9400, TimS@VogelsangUSA.com

Walker Process Equipment – Div. of McNish Corporation**Booth(s): 401, 402 403, 404, 405, 406**

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

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

Walker Wellington LLC**Booth(s): 475, 476, 477**

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

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

Represented by Wescor Associates, 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, tel: 888-829-2783, info@wastecorp.com

Wemco Weir Specialty Pumps**Booth(s): 474**

Represented by Wescor Associates, 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

Wescor Associates, Inc.**Booth(s): 410, 411, 412, 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 Street, Wrentham, MA 02093, tel: 508-384-8921, BillJr@Wescor1.net, www.WescorAssociatesInc.com

WESTECH**Booth(s): 175**

WesTech Engineering, Inc. offers a complete line of equipment for primary and secondary clarification, anaerobic digestion, tertiary treatment, thickening, CSO, and headworks. Talk to us about our breakthrough biological treatment, Microvi MNE. We are an employee-owned, global company, founded in 1973.

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

WhiteWater, Inc.**Booth(s): 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: Russell Tierney, 253B Worcester Rd., Charlton, MA 01507, tel: 508-832-3295, rtierney@rhwhite.com, www.whitewateronline.com

Williamson Pump & Motor**Booth(s): 185**

Williamson is a full service pump & motor company. We specialize in pump repair, motor rewinding, planned maintenance on pumping systems for homeowners and businesses, structural rehabilitation, HVAC, wastewater and potable water, VFDs and generators. We provide around the clock emergency service, repairs and replacements.

Contact: Russ Clark, 25 Griffin Way, Chelsea, MA 02150, tel: 617-884-9200, russc@weco-group.com, www.weco-group.com

Worcester Polytechnic Institute**Booth(s): 408**

Emphasizing contemporary topics and emerging research, the WPI Environmental Engineering program covers advanced water-quality topics, including water flow, analysis, chemistry, treatment, hydraulics, and resource management

Contact: Tim Goodale, 100 Institute Rd., Worcester, MA 01609, tel: 508-831-6594, tpgoodale@wpi.edu, www.online.wpi.edu

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-inc.com, www.xylem.com/en-US/brands/godwin

Xylem Dewatering Solutions, Inc. – Flygt Pumps**Booth(s): 493**

Flygt – a xylem brand, is the technological leader in wastewater market, the originator of the heavy duty electrical submersible pump. We have been innovating, designing and manufacturing high quality heavy duty equipment since 1901.

Contact: Tom Malone, 78 Olympia Ave #K, Woburn, MA 01801, tel: 860-889-2343, tom.malone@xylem-inc.com, www.xylem.com/en-us/brands/flygt

ZCL | Xerxes**Booth(s): 409**

ZCL | Xerxes is a leading innovator in composite tank engineering, and the largest manufacturer of underground fiberglass storage tanks in the world with nearly 40 years of direct industry experience.

Contact: Jim Merchlewitz, 7901 Xerxes Ave. South, Minneapolis, MN 55431, tel: 651-587-4105, jim.merchlewitz@xerxes.com, www.zcl.com

Exhibitor Category Directory



Air Quality, Odor Control

Atlantic Fluid Technologies, Inc. / 480	F.W. WEBB Co. - Process Controls Division / 216	Titus Industrial Group Inc / 149
Carlsen Systems / 183	Russell Resources, Inc. / 454	USABBLUEBOOK/ 459
David F. Sullivan & Assoc / 177	Sullivan Associates/RITEC / 458	USP Technologies / 190
Evoqua Water Technologies / 164	The MAHER Corporation / 181	Walker Wellington LLC / 475
F. R. Mahony & Associates, Inc. / 401		Wescor Associates, Inc. / 410-413 & 473-474 & 481-482 & 489-490



Stormwater Detention, Retention, Conveyance & Treatment

Atlantic Fluid Technologies, Inc. / 480	New England Environmental Equipment / 438	StormTank / 188
David F. Sullivan & Assoc / 177	Russell Resources, Inc. / 454	StormTrap / 147
DN Tanks / 478	Shea Concrete Products, Inc. / 457	United Rentals Fluid Solutions / 201
F. R. Mahony & Associates, Inc. / 401	Spire Metering Technology / 206	USP Technologies / 190
Hobas Pipe USA / 142	Stacey DePasquale Engineering, Inc. / 451	Worcester Polytechnic Institute / 408
ILC Dover / E		ZCL Xerxes / 409



Biosolids/Sludge

ABEL Pumps / 199	F. R. Mahony & Associates, Inc. / 401	Synagro Northeast, LLC / 180
Atlantic Fluid Technologies, Inc. / 480	Flottweg Separation Technology / 176	TenCate Geotube / A
BDP Industries / 165	Groth / 166	The MAHER Corporation / 181
Biowaste Pyrolysis Solutions, LLC / 204	Hach Company / 193	Thermal Process Systems / 165
Casella Organics / 150	New England Environmental Equipment / 438	Unison Solutions / 176
David F. Sullivan & Assoc / 177	Novozymes / 103	USP Technologies / 190
Denali Water Solutions / 494	Russell Resources, Inc. / 454	Walker Wellington LLC / 475
Evoqua Water Technologies / 164	Shea Concrete Products, Inc. / 457	Wescor Associates, Inc. / 410-413 & 473-474 & 481-482 & 489-490
		WESTECH / 175



Sewer Maintenance, Inspection and Rehab Services

ADS Environmental Services / 437	ElectroScan, Inc / Nivelco, USA / Blue Ribbon Corporation / 430 – 432	Scavin Equipment Co. LLC / 196
Airvac - a brand of Aqseptence Group / 450	EST Associates / 140	Sprayroq, Inc. / 184
AP/M CentriPipe / 189	Flow Assessment Services LLC / 135	Stacey DePasquale Engineering, Inc. / 451
Aries Industries Inc / 162	Green Mountain Pipeline Services / 442	Ted Berry Company / 110
Atlantic Fluid Technologies, Inc. / 480	Grignard Company LLC / 148	Titus Industrial Group Inc / 149
CN Wood / 213	HammerHead Trenchless Equipment / 144	Truax / D
Cretex Specialty Products / 112	Hobas Pipe USA / 142	TruGrit Traction Inc. / 212
CSL Services / 195	ITpipes / 210	Trumbull Manufacturing, Inc. / 194
CUES, Inc. / 141	J.F. McDermott Corporation / 419	Underground Inspection Technologies / 203
Diversified Infrastructure Services, Inc. / 191	LMK Technologies / 187	USABBLUEBOOK / 459
Duke's Root Control / 491	National Water Main Cleaning Co. / 107	VersaFlex/Raven / 170
Eastern Pipe Service LLC / 171	Pure Technologies U.S. Inc. / 211	Williamson Pump & Motor / 185
		Worcester Polytechnic Institute / 408



Laboratory Services and Supplies

F.W. WEBB Co. - Process Controls Division / 216	New England Environmental Equipment / 438
Hach Company / 193	USABBLUEBOOK / 459



New Pipe & Collection System Components

ABEL Pumps / 199	Hobas Pipe USA / 142	Titus Industrial Group Inc / 149
Airvac—a brand of Aqseptence Group / 450	Mechanical Solutions Inc. / 102	Truax / D
Cretex Specialty Products / 112	Shea Concrete Products, Inc. / 457	TruGrit Traction Inc. / 212
Diversified Infrastructure Services, Inc. / 191	Stacey DePasquale Engineering, Inc. / 451	Trumbull Manufacturing, Inc. / 194
FlowWorks, Inc. / 443		USABUEBOOK / 459



Computer Hardware, Software, Asset Management Software & Cloud Services

CUES, Inc. / 141	LLumin, Inc / 208	Underground Inspection Technologies / 203
FlowWorks, Inc. / 443	Rezatec / 197	
Innovyze / 198	Rockwell Automation / 207	



Tank Component and Coating Systems

ABEL Pumps / 199	New England Environmental Equipment / 438	USABUEBOOK / 459
Atlantic Fluid Technologies, Inc. / 480	Shea Concrete Products, Inc. / 457	VersaFlex/Raven / 170
DN Tanks / 478	Sprayroq, Inc. / 184	Williamson Pump & Motor / 185
Maltz Sales Company / 160		ZCL Xerxes / 409



Engineering (as a standalone service)

ABEL Pumps / 199	LandTech Consultants Inc. / 137	/ 457
F.W. WEBB Co. - Process Controls Division / 216	Rockwell Automation / 207	Stacey DePasquale Engineering, Inc. / 451
Flow Assessment Services LLC / 135	Shea Concrete Products, Inc.	Worcester Polytechnic Institute / 408



Process Equipment and Systems

ABEL Pumps / 199	Hach Company / 193	Russell Resources, Inc. / 454
Asahi/America, Inc. / 435	Hiller Separation & Process / Netzsch Booth / 422 - 425, 430 - 433	Seepex Inc. / 420
Atlantic Fluid Technologies, Inc. / 480	J&R Sales and Service, Inc. / 414	SNF Polydyne / 407
CUES, Inc. / 141	Kubota / 174	StormTrap / 147
David F. Sullivan & Assoc / 177	LG Sonic / 200	Sullivan Associates/RITEC / 458
Duperon Corp. / 177	Maltz Sales Company / 160	The MAHER Corporation / 181
EMS New England / 205	Mechanical Solutions Inc. / 102	Trumbull Manufacturing, Inc. / 194
Environmental Operating Solutions, Inc. (EOSI) / 449	New England Environmental Equipment / 438	USABUEBOOK / 459
Evoqua Water Technologies / 164	Oakson / 483	USP Technologies / 190
F. R. Mahony & Associates, Inc. / 401	Ober-Read & Associates / 214	Walker Wellington LLC / 475
FLOW TECH INC / 186	POND Technical v434	Wescor Associates, Inc., / 410-413 & 473-474 & 481-482 & 489-490
Ford Hall Company / 177	QED Environmental Systems, Inc. / 145	WESTECH / 175
Gabriel Novac & Associates / 166	REA Resource Recovery Systems / 168	Williamson Pump & Motor / 185
Glasco uv / Saf-T-Flo Booth / 422 - 425, 430 - 433	Rockwell Automation / 207	



Chemicals

ABEL Pumps / 199	Grignard Company LLC / 148	The MAHER Corporation / 181
Coyne Chemical Environmental Services / 127	Holland Company, Inc. / 500	USABUEBOOK / 459
Duke's Root Control / 491	Performance Chemicals, LLC / 179	USP Technologies / 190
G&G Enterprises / 416	Seepex Inc. / 420	VersaFlex/Raven / 170
Glasco uv / Saf-T-Flo / 422 - 425, 430 - 433	SNF Polydyne / 407	Wescor Associates, Inc., / 410 - 413 & 473 - 474 & 481 - 482 & 489 - 490
	Sprayroq, Inc. / 184	



Pumps

ABBA Pump Parts & Service / 109	Hiller Separation & Process/ Netzsch / 422–425, 430–433	The MAHER Corporation / 181
ABEL Pumps / 199	J.F. McDermott Corporation / 419	United Rentals Fluid Solutions / 201
Airvac - a brand of Aqseptence Group / 450	Maltz Sales Company / 160	USABUEBOOK / 459
Associated Electro-Mechanics, Inc. / 468	Mechanical Solutions Inc. / 102	Walker Wellington LLC / 475
Atlantic Fluid Technologies, Inc. / 480	New England Environmental Equipment / 438	Wescor Associates, Inc., / 410 – 413 & 473 – 474 & 481 – 482 & 489 – 490
Blake Equipment / 466	Ober-Read & Associates / 214	Williamson Pump & Motor / 185
Carlsen Systems / 183	POND Technical / 434	Worcester Polytechnic Institute / 408
David F. Sullivan & Assoc / 177	QED Environmental Systems, Inc. / 145	Xylem Dewatering Solutions Inc - Flygt Pumps / 493
F. R. Mahony & Associates, Inc. / 401	Rain for Rent / 415	Xylem Dewatering Solutions Inc - Godwin Pumps / 492
Grundfos Water Utility, Inc / 167	Russell Resources, Inc. / 454	
	Seepex Inc. / 420	
	Sullivan Associates/RITEC / 458	



Flow Monitoring, Instrumentation, Controls and SCADA

ADS Environmental Services / 437	FlowWorks, Inc. / 443	Russell Resources, Inc. / 454
Blake Equipment / 466	JWB Company / Hach Flow Group / 430 – 432	SmartCover Systems / 209
Carl Lueders & Company / 485	Maltz Sales Company / 160	Spire Metering Technology / 206
CSL Services / 195	Motor Protection Electronics / Opti Float/Cox Research / Toshiba Magnetic Flowmeters / 430 – 432	Stacey DePasquale Engineering, Inc. / 451
Diversified Infrastructure Services, Inc. / 191	New England Environmental Equipment / 438	Sullivan Associates/RITEC / 458
ElectroScan, Inc / Nivelco, USA / Blue Ribbon Corporation / 430 – 432	POND Technical / 434	Trumbull Manufacturing, Inc. / 194
EST Associates / 140	RACO Manufacturing & Engineering Co / Pribusin Inc. / Autrol America / 430 – 432	USABUEBOOK / 459
F. R. Mahony & Associates, Inc. / 401	Rain for Rent / 415	Wescor Associates, Inc., / 410-413 & 473-474 & 481-482 & 489-490
F.W. WEBB Co. - Process Controls Division / 216	Rockwell Automation / 207	Williamson Pump & Motor / 185
Flow Assessment Services LLC / 135		

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

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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, A–E

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.**

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