New England Water Environment Association presents:

WATER’S WORTH IT
INSPIRING THE WATER REVOLUTION

NEWEA 2020
Annual Conference & Exhibit

January 26 – 29
Boston Marriott Copley Place
Boston, Massachusetts
### Miscellaneous Events & Committee Meetings

#### Sunday, January 26, 2020
- **Young Professionals (YP) Summit** | Salon E | 10:00 AM – 5 PM
- **Committee Chair & Council Director Orientation** | Vineyard/Yarmouth | 10:30 AM – Noon
- **Executive Committee Meeting** | Salon D-C-B-A | Noon – 3:30 PM

#### Monday, January 27, 2020
- **Affiliated State Association Leadership** | Orleans | 9:00 – 10:30 AM
- **Asset Management Committee** | Vineyard/Yarmouth | Noon – 1:00 PM
- **Residuals Management Committee** | Regis | Noon – 1:00 PM
- **Water Reuse Committee** | Champions | Noon – 1:00 PM
- **Young Professionals Committee** | Legal Seafoods | Noon – 1:00 PM
- **CSO/Wet Weather Issues Committee** | Champions | Noon – 1:30 PM
- **Stormwater Committee** | Clarendon | Noon – 1:30 PM
- **Energy Committee** | Harvard | 12:15 – 1:45 PM
- **Contaminants of Emerging Concern Committee** | MIT | 1:00 – 2:00 PM
- **Sustainability Committee** | Orleans | 1:00 – 2:00 PM
- **Utility Management Committee** | Hyannis | 2:00 – 3:00 PM
- **Charitable Giving Task Force** | Yarmouth | 2:00 – 3:30 PM
- **Public Awareness Committee** | Boston University | 2:00 – 3:30 PM
- **Assessment and Development Committee** | — | 2:30 – 3:30 PM
- **Innovation Council** | Falmouth | 3:30 – 4:30 PM
- **Plant Operations Committee** | Orleans | 4:30 – 5:30 PM
- **Stormwater, Watershed, Sustainability Committees** | Hyannis | 4:30 – 5:30 PM

#### Tuesday, January 28, 2020
- **Journal Committee** | Orleans | 7:30 – 8:30 AM
- **Government Affairs Committee** | Clarendon | 9:00 – 10:30 AM
- **Collection Systems Certification Committee** | MIT | 10:00 – 11:30 AM
- **Membership Committee** | Boston University | 10:30 – 11:30 AM
- **Awards Committee** | Falmouth | 11:00 AM – Noon
- **Operations Challenge Committee** | Vineyard | 11:00 AM – Noon
- **Sponsorship Committee** | Orleans | 11:00 AM – Noon
- **Industrial Wastewater Committee** | Champions | 11:45 AM – 1:15 PM
- **Youth Education Committee** | Champions | Noon – 12:30 PM
- **Laboratory Practices Committee** | Hyannis | Noon – 1:00 PM
- **Watershed Management Committee** | Orleans | Noon – 1:00 PM
- **Safety Committee** | Champions | Noon – 1:30 PM
- **Collection Systems Committee** | Clarendon | 12:15 – 1:15 PM
- **NEWEA/NEWWA/APWA Leadership** | Falmouth | 2:00 – 3:00 PM
- **Veterans Workforce Development Committee** | Champions | 3:00 – 4:00 PM

#### Wednesday, January 29, 2020
- **Innovation Task Force** | — | 9:00 – 10:00 AM
- **Photo Ready Room** | 3rd floor atrium | 9:00 – 10:00 AM
- **Award Ceremony & Lunch** | Salon E | 11:00 AM

**Speaker Breakfast/Ready Room (M, T, W)** | Hyannis | 7:30 AM
Welcome to NEWEA’s 90th Annual Conference!

This premier water quality event and exhibit features 32 technical sessions, a student poster session that showcases the work of students studying in our industry, two floors of exhibitors featuring the industry’s latest products, and the second annual Innovation Pavilion! In keeping with this year’s theme, “Inspiring the Water Revolution”, this year’s program is focused on bringing innovation to the forefront for our members and friends for all three days!

On Monday, join us at the Opening Session to hear from our Keynote Speaker Kit Krugman, Global Executive Director of Women in Innovation (WIN). Additionally, we plan to formally announce the full merger of NEWEA with the Northeast Water Innovation Network (NEWIN) during the Opening Session. This merger is the result of a lot of hard work by the NEWEA Senior Management Team, NEWIN Board, the NEWEA ADHOC Innovation Committee, and NEWEA Executive Office. Once finalized, the merger will grant existing NEWEA members the opportunity to connect with NEWIN’s network of innovators and attend additional events focused on water innovation and provide NEWIN members with access to NEWEA, and WEF, membership benefits, as well as NEWEA’s expertise cultivated throughout 90 years of industry experience.

We encourage you to attend any number of our technical sessions and roundtable discussions and visit both floors of our exhibit hall. Monday winds down with the first of two Exhibit Hall receptions on the 3rd floor.

Tuesday is NEWEA Operator Day! We will celebrate operators with a full program of technical sessions geared towards operators, the Operator Ingenuity technical session on Tuesday morning, the Operator’s Reception at noon, and countless networking opportunities at the Exhibit Hall Reception in the afternoon.

Stop by the 3rd floor on Tuesday to visit the Innovation Pavilion. The program features exhibits and presentations from some of the most promising water technology companies in the region, as well as Shark Tank pitches from students.

The final day of the conference features a full day of technical sessions and exhibits, our Wednesday lunch-time awards ceremony recognizing outstanding efforts in our industry, and the passing of the gavel to the 2020 NEWEA President, Jennifer Kelly Lachmayr. The Awards Luncheon sells out annually, so don’t miss out! We hope you take advantage of all the 2020 Annual Conference has to offer and use this occasion to catch up with old acquaintances and friends 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, Jordan Gosselin, and Cindy Avagianos, for their energy, professionalism, and patience in planning and coordinating this great event every year!

Raymond Vermette, NEWEA President
Amy Anderson George, NEWEA Program Committee Chair
### NEWEA 2019 EXECUTIVE COMMITTEE

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
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<tbody>
<tr>
<td>President</td>
<td>Raymond Vermette</td>
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<tr>
<td>President Elect</td>
<td>Jennifer Kelly Lachmayr</td>
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<tr>
<td>Vice President</td>
<td>Virgil Lloyd</td>
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<tr>
<td>Treasurer</td>
<td>Clayton “Mac” Richardson</td>
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<td>Past President (Management Review)</td>
<td>Janine Burke-Wells</td>
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<tr>
<td>Executive Director</td>
<td>Mary Barry</td>
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<tr>
<td>WEF Delegate (10/16)</td>
<td>Frederick McNeill</td>
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<td>WEF Delegate (10/17)</td>
<td>Matthew Formica</td>
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<td>WEF Delegate (10/18)</td>
<td>Susan Guswa</td>
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<tr>
<td>WEF Delegate (10/19)</td>
<td>James Barsanti</td>
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### NEWEA 2019 COUNCILS (CONTINUED)

#### Collection Systems/Water Resource Council
- Collection Systems Certification Committee: Gregory Kidd
- Collection Systems Committee: Peter Garvey
- CSO/Wet Weather Issues Committee: Steven Perdios
- Industrial Wastewater Committee: Sarah White
- Stormwater Committee: Angela Blanchette
- Sustainability Committee: Courtney Eaton
- Water Reuse Committee: Robert Scott
- Watershed Management Committee: Jennifer Johnson

#### Outreach Council
- Government Affairs Committee: Robert Fischer
- Humanitarian Assistance and Grants Committee: Marina Fernandes
- Membership Committee: Peter Frick
- Safety Committee: David Wright
- Scholarships Committee: Nicholas Valinski
- Student Activities Committee: Nicholas Tooker
- Water for People Committee: Renee Janes
- Young Professionals Committee: Colin O’Brien

#### Vice President Council
- Innovation Task Force: Marianne Langridge
- Voluntary Certification: Tom Groves
- Veterans Workforce Development*: Peter Goodwin

#### Management Review Council
- Assessment and Development Committee: Mary Lee Santoro
- Awards Committee: Jay Sheehan
- Bylaws Committee: Michael Bonomo
- Committee Member Appreciation Committee: Denise Deschenneau
- Nominating Committee: Raymond Willis
- Sponsor Committee: Dennis Vigliotta

* Ad hoc
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Dear Members and Friends,

We have exciting news of positive change within NEWEA. After many months of planning and discussion, our NEWEA Executive Committee and the Northeast Water Innovation Network’s (NEWIN) Board of Directors have voted to approve a merger between our two organizations.

Following some organizational planning in the fourth quarter and a final approval vote at our January 2020 Annual Conference, NEWIN will merge to become the brand-new Innovation Council within NEWEA. This council will be led by Marianne Langridge (MacDonald) and consist of members of the NEWEA Innovation Task Force and NEWIN Board of Directors, as well as others. As the Council grows, we plan to establish dedicated committees focused in the pursuit of water innovation, and we will be announcing Innovation Partnerships for all types of organizations to participate in exciting and impactful water innovation opportunities.

We’re very excited for this new phase of our history and the opportunities the merger will provide. Existing NEWIN members will gain the benefits of NEWEA and WEF membership and the opportunity to leverage NEWEA’s industry experience, while existing NEWEA members will gain access to a network of innovators and events with a focus on enhancing innovation in the water sector. We will be leading the region through further development of the New England Water Cluster.

For more details on this merger, please visit our site to read our full statement, and please contact myself or Marianne with any questions or for additional information. As always, we’d like to thank you for your continued support of NEWEA and NEWIN. We look forward to maintaining and growing our commitment to water quality and innovation.

Sincerely,
Mary Barry
Executive Director
New England Water Environment Association
NEWEA invites the submission of abstracts for presentations for the upcoming 2020 Spring Meeting & Exhibit. Visit springmeeting.newea.org and click Submit an abstract to complete the on-line abstract submittal form.
NEW ENGLAND WATER ENVIRONMENT ASSOCIATION

2020 SPONSOR, ADVERTISER, DONOR PROGRAMS NOW ENROLLING

Sign up online at newea.org/join-us or pick up the applications at the NEWEA booth

MAKE 2020 THE YEAR YOU JOIN US

Since 1947 our engineers and constructors have provided exceptional service in the water, environment, transportation, energy, and facilities industries. We look forward to partnering with you for another 70 years.

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Conference Events

Sunday, January 26

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

Monday, January 27

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
Colin O’Brien, Brown and Caldwell
NEWEA Annual Business Meeting (Falmouth) .................... 8:00–8:30 AM
Welcome and Opening Remarks:
Raymond Vermette, NEWEA President/City of Dover, NH
Presentation and vote on 2020 Slate of NEWEA Officers.
See description on page 46
Technical Sessions 1–5 .............................................. 8:30–10:30 AM
See descriptions beginning on page 16
Exhibit Hall Grand Opening ...................................... 10:30 AM
Paul P. Casey, Exhibits Committee Chair; Raymond Vermette, NEWEA President
Grand Opening will take place at the main entrances of both the 3rd and 4th floor
exhibit areas.

Monday, January 27 continued

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. See page 50 for list of exhibitors.
Opening Session (Salon E) ............................................. 11:00 AM
Select Society of Sanitary Sludge Shovelers’ Lunch ............ Noon–2:00 PM
by invitation – Charles Tyler, Influient Integrator (Dartmouth/Exeter)
Technical Sessions 6–11 ............................................. 2:00–4:30 PM
See descriptions beginning on page 19
Exhibit Hall Break ...................................................... 3:00–3:30 PM
Exhibit Hall Reception (3rd Floor Exhibit Area) ............... 4:30–6:30 PM

Tuesday, January 28

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
See description on page 34
Exhibits ................................................................. 8:00 AM–6:00 PM
3rd and 4th Floor Exhibit Areas
Technical Sessions 12–17 ............................................ 9:00–11:30 AM
See descriptions beginning on page 22
College Student Poster Board Competition ................. 9:00 AM–4:00 PM
Coordinator: Thomas Groves, NEIWPCC
Session with authors .............................................. 11:30 AM–12:30 PM
Exhibit Hall Break ...................................................... 10:00–10:30 AM
Operator’s Reception .................................................. 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
New Hampshire Water Pollution Control Association
Rhode Island Clean Water Association
Technical Sessions 18–23 ........................................... 1:30–4:00 PM
See descriptions beginning on page 26
Exhibit Hall Break ...................................................... 2:30–3:00 PM
Student Award Reception (3rd Floor Atrium) ............... 3:15–4:00 PM
Exhibit Hall Reception (4th Floor Exhibit Area) .......... 4:00–6:00 PM
**Wednesday, January 29**

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

**Speakers’ Breakfast** (Vineyard/Yarmouth) .................................7:30–8:30 AM

**Exhibits** ......................................................................................... 8:00 AM–1:00 PM

**Exhibits** ......................................................................................... 3rd and 4th Floor Exhibit Areas

**Technical Sessions 24–28** .......................................................... 8:30–11:00 AM
See descriptions beginning on page 29

**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 29–32** .......................................................... 1:00–3:00 PM
See descriptions beginning on page 32

**Adjourn** ......................................................................................... 3:00 PM

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**Opening Session**

**MONDAY, JANUARY 27**

11:00 AM  
Moderator:  
Amy Anderson George,  
NEWEA Program Chair,  
Arcadis

**Salon E**

**Salon E**

**Keynote Speaker:**  
Kit Krugman, Organization & Culture Design at co:collective

Kit Krugman is the Head of Organization & Culture Design at co:collective, a creative and strategic transformation consultancy.

Kit has spent 10+ years of experience designing, managing, and growing teams at creative organizations. She has worked on Future of Talent/Future of Work projects for clients like IBM, LinkedIn, and Microsoft and designed organizational change initiatives for diverse communities including schools, design firms, and publishing companies.

In addition to her role at co;, Kit is the Global Executive Director of WIN: Women in Innovation—a global nonprofit dedicated to closing the gender gap in innovation by providing concrete learning and resources to women innovators.

Kit is deeply committed to building more inclusive communities and organizations. She has been published in INC, Fast Company, and the Huffington Post and spoken at DisruptHR, Talent2030, and Adobe’s 99U on numerous topics including women in leadership, new organizational models and building a culture of inclusion and innovation.

In addition to her subject matter expertise in organizational psychology and change leadership via a M.A. from Columbia University, Kit brings a deep understanding of narrative and design theory from her B.A. in Literature and Studio Art from Yale. Kit began her career as a K-12 art teacher and is a certified yoga teacher.
Technical Sessions 1–5
Monday
8:30–10:30 AM

Session 1
Asset Management 1:
Case Studies and Tools
Moderators:
Dan Capone, Gannett Fleming
John Sykora, Weston & Sampson
Suffolk

Session 2
Collection System 1:
Modeling/II/I
Moderators:
Peter Garvey, Dewberry
Ryan Wingard, Wright-Pierce
Provincetown

Session 3
Stormwater 1:
Tools of the Stormwater Trade
Moderators:
Patrick Gordon, StormTrap
Angela Blanchette, Town of Scarborough, ME
Salon A/B

Session 4
Contaminants of Emerging Concern:
Monitoring and Treating PFAS, Pharmaceuticals, and PCPs
Moderators:
Brendan Curran, Stantec
John Ross, Stantec
Brown and Caldwell
Salon C/D

Technical Sessions
8:30–10:30 AM

3D GIS and Asset Management
Zachary Jaffe, LandTech Consultants
Andrea Taveres, LandTech Consultants
Chris Lorain, LandTech Consultants

Asset Management in the Granite State—
a Case Study in Keene, NH
Matthew Manchisi, Hazen and Sawyer
Charles Wilson, Hazen and Sawyer
Don Lussier, City of Keene, NH

Are there Benefits to Cloud Assets Management and IoT?
Ken Nolan, Watts Water Technologies
Ian Baynes, Watts Water Technologies

Development of an Asset Management Roadmap
Propelled by Work Team Initiatives
Len Sekuler, Arcadis
Sowmya Bhimanadhuni, Arcadis
Alton Echols, Loudoun Water, VA
Jessica Dzara, Loudoun Water, VA

O&M Optimization via a Living Hydraulic Model
Brian Brown, CDM Smith
Laurie Kellndorfer, CDM Smith
Jason Waterbury, The Metropolitan District Commission

Physical Hydraulic Modeling a Tool for Pumping System Design and Optimization
Paul Moulton, AECOM

All Over Over-Unders! Addressing I/I, Water Quality, and CSO Abatement with an Over/Under Manhole Program
Shawn Syde, City of New Bedford, MA
Jamie Ponte, City of New Bedford, MA
Jesse Herman, CDM Smith
Karilyn Heisen, CDM Smith

Strategic Meter Migration Leads to Accelerated Solutions in Dover
Eliza Morrison, Wright-Pierce
Bill Boulanger, City of Dover, NH

Targeting and Prioritizing Stormwater
Master Planning Projects in Vermont
Kerrie Garvey, Watershed Consulting Associates

Everything Counts—Expanding the Realm of Stormwater Treatment Credits
Theresa McGovern, VHB
Cambia Ung, VHB
Alisa Richardson, RIDOT

Implementing Opti-Tool—Benefits, Complications, and Considerations for Putting this Technology into Action
Hernan Peralta, Woodard & Curran
Carly Quinn, Woodard & Curran

Utilizing the Massachusetts MVP Grant Program to Address Precipitation-based Vulnerabilities to Climate Change
Jennifer Zoppo, Stantec
Haleemah Qureshi, City of Somerville, MA

Repelling the Repellent—PFAS Considerations for Water and Wastewater Utilities
Christopher Curran, AECOM
Rhonda Pogodzienski, AECOM
Dr. Yujung Chang, AECOM

The Fate and Removal of Pharmaceuticals and Personal Care Products within Wastewater Treatment Facilities Discharging Upstream from the Great Bay Estuary
Alexandria Hidrovo, University of New Hampshire
Jenna Luek, University of New Hampshire
James Mailey, Jr., University of New Hampshire
Paula Mouser, University of New Hampshire

Exploring Pharmaceutical Biotransformation by Denitrifiers
Amy Hunter, Tufts University
Dr. C. Andrew Ramsburg, Tufts University

Distribution of Per- and Polyfluorinated Alkyl Substances (PFAS) in Wastewater Treatment Plants
Elham Tavasoli, University of New Hampshire
Scott Greenwood, University of New Hampshire
James Mailey, Jr., University of New Hampshire
Paula Mouser, University of New Hampshire
Technical Sessions 1–5

Monday
8:30–10:30 AM

Session 5
Small Community: Potpourri

Moderators:
Ian Catlow, Tighe & Bond
Meghan Trahan, Woodard & Curran

Simmons

Wastewater Headworks Screening for Smaller Installations
Joe Clark, JWC Environmental
Kevin Bates, JWC Environmental

Pilot Test of Nutrient Removal by Large-scale Drip Dispersal of Tertiary Treated Effluent, Southern Vermont
Craig Heindel, Waite-Heindel Environmental Management

Pay for Large Projects in Small Communities—Templeton’s Replacement of its Main Wastewater Pump Station
David Peterson, Kleinfelder
Judy Arnobit, Kleinfelder
Mark Thompson, Kleinfelder

Non-destructive Investigation and Proactive Hydrogen Sulfide Corrosion Rehabilitation of Collection System Infrastructure—Uxbridge, MA Case Study
Anastasia Rudenko, GHD
Sara Greenberg, GHD
Benn Sherman, Town of Uxbridge, MA
James Legg, Town of Uxbridge, MA

Technical Sessions 6–11

Monday
2:00–4:30 PM

Session 6
Government Affairs: GAC Regulators Roundtable

Moderators:
Bob Fischer, City of South Burlington, VT
Matt Formica, AECOM

Panelists include:
Thomas O’Donovan, NH DES
Emily Boedecker, VT DEC
Angelo Liberti, RI DEM
Brian Kavanah, ME DEP
Susannah King, MassDEP
Rowland Denny, CT DEEP

Session 7
CSO/Wet Weather 1: Long-term CSO Control Plans—Creating or Assessing

Moderators:
Steven Perdios, Dewberry
Jeff Cantwell, Flow Assessment Services

Salon A/B

A City with a Plan is a City with a Vision. Developing the City-Wide Sewer Separation Master Plan in Chelsea, MA
David Bedoya, Dewberry
Lou Mamolette, City of Chelsea, MA

Swimming in Data—Collaboration to Collect, Review, and Effectively Use Data
Erika Casarano, AECOM
Sharon Tsay, AECOM
Evelyn Grainger, AECOM
Jeremy Hall, Massachusetts Water Resources Authority

Applications of Smart Data Infrastructure for Wet Weather Control and Decision Support
Tony Omobono, Tetra Tech
Diana Qing Tao, Tetra Tech

Your CSO Long-Term Control Plan is Constructed… What Happens Next?
Charles Wilson, Hazen and Sawyer

Exhibit Hall Break
3:00–3:30 PM
Technical Sessions 6 – 11

Monday
2:00–4:30 PM

Session 8
Plant Operations 1:
Data/Instrumentation

Moderators:
Tom Hazlett,
Woodard & Curran
Varun Srinivasan,
Brown and Caldwell

Salon C/D

Making the Most of Online Instrumentation to Improve Process Performance and Reduce Costs at the Westfield, MA WRF
Jeff Gamelli, City of Westfield, MA
Ken Gagnon, City of Westfield, MA

You’ve Got the Data—Now What? How to Effectively Integrate and Visualize Data to Facilitate Effective Process Control Decisions
Susan Guswa, Woodard & Curran
Alan Fabiano, Woodard & Curran
Bob Amaral, Woodard & Curran
Frank Cavaleri, Woodard & Curran

The Current State of Automation and Controls at New England WRRFs
Nicholas Tooker, University of Massachusetts Amherst
Wenjin Zhang, Northeastern University
Amy Mueller, Northeastern University
Mickey Nowak, Massachusetts Water Environment Association

Enabling Next-Generation Process Automation—Where are the Next Innovations in Sensing and Data Analytics?
Wenjin Zhang, Northeastern University
Amy Mueller, Northeastern University
Nicholas Tooker, University of Massachusetts Amherst

Navigate Through Design Codes and Standards for Biogas Systems
Regina Hanson, Varec Biogas

Innovative Approach to Enhancing Dewaterability of Co-digesting Sludge and High Strength Waste from a Mesophilic Digester
Christopher Muller, Brown and Caldwell
Tim Mills, Brown and Caldwell
Michael Nacrelli, City of Gresham, OR

Innovative Dewatering Approaches to Achieve Lowest Life Cycle Costs
Micah Biate, Hazen and Sawyer

Using Sludge Rheology in Solids Systems Design, Planning, and Operation
Tracy Chouinard, Brown and Caldwell

Session 9
Residuals 1:
Operation Issues and Residuals Management

Moderator:
Natalie Sierra,
Brown and Caldwell
Dexter Lefavour,
Tata and Howard

Suffolk

Navigate Through Design Codes and Standards for Biogas Systems
Regina Hanson, Varec Biogas

Innovative Approach to Enhancing Dewaterability of Co-digesting Sludge and High Strength Waste from a Mesophilic Digester
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Innovative Dewatering Approaches to Achieve Lowest Life Cycle Costs
Micah Biate, Hazen and Sawyer

Using Sludge Rheology in Solids Systems Design, Planning, and Operation
Tracy Chouinard, Brown and Caldwell

Exhibit Hall Break
3:00–3:30 PM

Session 10
Energy:
Multi-Faceted Approach to Energy Optimization

Moderators:
Nick Ellis,
Hazen and Sawyer
Karen Wong,
Tighe & Bond

Designing Energy Efficiency and Nitrogen Removal Optimization for a Major WPCF Upgrade in Southington, CT
Cynthia Castellon, Tighe & Bond
Chris Bone, Tighe & Bond

Zero Net Energy Pumping Station Using On-site Water Source for Geothermal Heating and Cooling
Tom Renaud, Massachusetts Water Resources Authority
Mike Bartley, Stantec

Revenue through Energy Savings and Generation
Alex Rozen, JKMuir
Jen Muir, JKMuir
Molly Keleher, JKMuir

A Multi-Sector Approach to Optimize Process Efficiency and Reduce Operating Costs at the Upper Blackstone
Edris Taher, Upper Blackstone Clean Water
Karla Sangrey, Upper Blackstone Clean Water
Timothy Loftus, Upper Blackstone Clean Water

Pushing Process Intensification Limits for Biological Nitrogen Removal using Gel Entrapment Technology
Dr. Carla Cherchi, Stantec
Kellogg Schwab, JHU
Shu Tsuda, Hitachi

Improved BNR Performance Through Selective Sludge Wasting
Daniel Dair, World Water Works
Krishen Tucker, World Water Works
Jason Boyd, World Water Works
Chandler Johnson, World Water Works

First of its Kind Treated Effluent Discharge Saves City Over $5M
Robert Polys, Woodard & Curran
Maxwell Kenney, Woodard & Curran

Leaving Obsolescence Behind! A Case Study of Innovative Design/Build SCADA Upgrades
Akshaya Selvaraj, Arcadis
Zeeshan Amin, Arcadis
Edward Kowalski, Arcadis
Vanessa McPherson, Arcadis

Exhibit Hall Break
3:00–3:30 PM

Session 11
Innovation:
Advantage, Innovation! New Technologies to Solve Operational Problems

Moderators:
Dave Polcari,
CDM Smith
Miles Moffatt,
Tighe & Bond

Pushing Process Intensification Limits for Biological Nitrogen Removal using Gel Entrapment Technology
Dr. Carla Cherchi, Stantec
Kellogg Schwab, JHU
Shu Tsuda, Hitachi

Improved BNR Performance Through Selective Sludge Wasting
Daniel Dair, World Water Works
Krishen Tucker, World Water Works
Jason Boyd, World Water Works
Chandler Johnson, World Water Works

First of its Kind Treated Effluent Discharge Saves City Over $5M
Robert Polys, Woodard & Curran
Maxwell Kenney, Woodard & Curran

Leaving Obsolescence Behind! A Case Study of Innovative Design/Build SCADA Upgrades
Akshaya Selvaraj, Arcadis
Zeeshan Amin, Arcadis
Edward Kowalski, Arcadis
Vanessa McPherson, Arcadis

Exhibit Hall Break
3:00–3:30 PM
Technical Sessions

**Session 12**
Collection System 2: Pumping

*Moderators:*
Scott Lander, Retain-It
Mike Armes, ADS Environmental Services-Idex

*Salon C/D*

**Session 13**
Energy/Residuals Joint: Energy Optimization for Selected Processes

*Moderators:*
Tracy Chouinard, Brown and Caldwell
Suffolk

*Salon A/B*

**Tuesday**
9:00–11:30 AM

**Session 14**
Operator Ingenuity: Wastewater Treatment Facilities Throughout New England—A Virtual Tour from the Operator’s Perspective

*Moderators:*
Helen Gordon, Environmental Partners Group
Erik Meserve, AECOM

*Salon C/D*

**Session 15**
Plant Operations 2: Emerging Issues

*Moderators:*
John Adie, NHDES
Pam Westgate, Kleinfelder

*Salon A/B*

**Exhibit Hall Break**
10:00–10:30 AM

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**Alone on an Island—Designing a Pump Station with Resiliency in Mind and Facing the Storm of the Century During Construction**
Kevin Raftery, Hazen and Sawyer

**When There is No Where to Go But Up**
Gary Simard, AECOM
Richard Feminella, Town of Greenwich, CT

**Dealing with Both Peaks and Valleys—Pump Station Upgrade Design**
John Scheri, Mott MacDonald
Kevin O’Brien Mott MacDonald
Ernie DeGraw, Two Bridges Sewerage Authority

**Taking a Global Look—City-wide Pump Station Assessment for Portsmouth, NH**
Michael Theriault, Wright-Pierce
Terry Desmarais, City of Portsmouth, NH

**Biogas Utilization for Small Utilities—Small Utilities Can Dream Big Too**
Bryan Lisk, Hazen and Sawyer
Micah Blate, Hazen and Sawyer

**No Digester, No Problem—CHP May Still be a Viable Option for Your Wastewater Treatment Facility**
Matthew Ribeiro, AECOM
Alan Taubert, Jr. South Essex Sewerage District
David Michelsen, South Essex Sewerage District
Peter Pommersheim, South Essex Sewerage District

**Evaluating Thermal Drying—Energy and Economics**
John Ross, Brown and Caldwell

**Asset Replacement to improve Energy Efficiency and Achieve Net Zero Energy Goals**
Colin O’Brien, Brown and Caldwell
Christopher Muller, Brown and Caldwell
William Rehkop, Derry Township Municipal Authority
Wayne Schultz, Derry Township Municipal Authority

**Reading the Tea Leaves—the Future of PFAS Treatment in Wastewater?**
Rob Little, Woodard & Curran
Lisa Campe, Woodard & Curran
Dan Bryant, Woodard & Curran

**Optimizing Capacity at a Hybrid Rotating Biological Contactor Plant—Where Do We Stand and Where Do We Invest Next to Get the Capacity We Need?**
Frederick Mueller, Tighe & Bond
Cynthia Castellon, Tighe & Bond
Peter Boria, Town of Charlton, MA

**Side-stream Enhanced Biological Phosphorus Removal (S2EBPR)—a Comparison of Performance and Microbial Ecology with Conventional EBPR**
Varun Srinivasan, Brown and Caldwell
Annalisa Onnis-Hayden, Northeastern University
Nicholas Tooker, University of Massachusetts Amherst
April Gu, Cornell University

**Review of Pilot Studies to Remove Zinc at the Sturbridge Wastewater Treatment Facility**
Austin Weidner, Tighe & Bond
Ian Catlow, Tighe & Bond
**Technical Sessions 12 – 17**

This two-hour session will include a description of alternative approaches to managing nutrients in stormwater. The session will be broken into two consecutive moderated panel discussions with each of the presenters providing insights on nutrient management innovations, challenges, and opportunities. The panel will be moderated with the intention of engaging the audience in active dialogue on the topic areas. The first hour will include a short introduction to current regulatory requirements on nutrients in the MA/NH MS4 General Permit followed by presentations by each of the panelists to describe their innovative efforts, programs, policies or structural controls.

Each panelist will have 10–15 minutes to present their topic. After a short break, the conversation will continue with a second facilitated panel of the same experts interacting with the moderator and the audience on the presented alternatives, MA/NH MS4 General Permit credit policy and TMDL Wasteload allocations. The nutrient-related regulatory requirements in the new MS4 permit in NH/MA are particularly challenging for permittees and we will use perspectives from across the country on alternatives that would allow permittees to more effectively and efficiently meet clean water goals.

**Panelists include:**
Tom Schueler, Chesapeake Stormwater Network—Streambank Stabilization and Restoration
Jamie Houle, University of New Hampshire Stormwater Center—Riparian Buffers
Jason Sorenson, United States Geological Survey—Street Solids and Leaf Litter

**Session 16**
Stormwater 2: Panel Discussion—Alternative Strategies for Managing Nutrients in Stormwater

Moderators:
Zach Henderson, Woodard & Curran
Kate Edwards, Arcadis

Wellesley

**Session 17**
Water Reuse: Planning, Permitting, Technology and Trials

Moderators:
Robert Scott, Woodard & Curran
Meredith Zona, Stantec Simmons

Applicability of WERF’s Risk Based Framework for Permitting Decentralized Non-Potable Water Systems in New England
Bruce Douglas, Natural Systems Utilities
Ed Clerico, Natural Systems Utilities
Zach Gallagher, Natural Systems Utilities
Adam Stern, Natural Systems Utilities

Full-Scale Loading Test at the MFN Regional Wastewater District Infiltration Basins for Assessing Maximum Capacity
Kathryn Swanson, CDM Smith
Buvana Ramaswamy, CDM Smith
Christopher Rositer, MFN Regional Wastewater District

Rare Earth Technology in Wastewater Treatment
Logan Wherry, Neo Water Treatment

Considerations for Water Reuse—Incorporating Water Reuse into Integrated Planning
Troy Walker, Hazen and Sawyer

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

**Session 18**
Collection System 3: CMOM/Asset Management

**Moderators:**
- Matt Corbin, Wright-Pierce
- Brad Hayes, Woodard & Curran

**Salon A/B**

**Session 19**
Industrial Wastewater Treatment: Chemistry Advances Improve Treatment Technologies and Processes

**Moderators:**
- Darrell Interess, LabCentral
- Matthew Dickson, MGD Process Technology

**Wellesley**

**Session 20**
Plant Operations 3: Wet Weather/Upgrades

**Moderators:**
- Ben Levesque, Tighe & Bond
- Ben Levin, Hazen and Sawyer

**Salon C/D**

**Session 21**
Residuals 2: Regulatory Issues and Other Hot Topics

**Moderators:**
- Eric Spargimino, CDM Smith
- Deborah Mahoney, Simmons

**Responding to the Maine DEP's Biosolids Utilization Memorandum**
- Jeff McBurnie, Casella Organics

**How Much Digestion Volume Do You Really Need for a THP Facility?**
- Matthew Van Horne, Hazen and Sawyer
- Joe Uglevich, Stantec
- Kevin Selock, WSSC
- Andy Seaton, PC Construction

**A Dose of Chaos—A Snapshot of the Current Biosolids Market and How PFAS Could Disrupt It**
- Tom Schwartz, Woodard & Curran
- Jay Sheehan, Woodard & Curran

**Manchester’s SSI Compliance Project**
- Robert Robinson, City of Manchester, NH/EPD
- Gillian Wood, Woodard & Curran
Tuesday 1:30–4:00 PM

Session 22
Safety Forum
Moderators:
David Wright, Weston & Sampson
David Horowitz, Tighe & Bond

Provincetown

Session 23
Watershed Management:
New Tools and Technology for a Changing World
Moderators:
Steve Wolosoff, CDM Smith
Sara Greenberg, GHD

Suffolk

Technical Sessions 18 – 23

Most Challenging Safety Programs for Drinking Water and Clean Water Treatment Plant Operators
David Horowitz, Tighe & Bond

Fall Protection—What’s the Big Deal?
David Wright, Weston & Sampson

A one-hour Discussion on the Industry’s Most Relevant Safety Issues

Leveraging State of the Science Tools to Identify Bacteria and Nutrient Sources in Urban Waters
Jared Ervin, Geosyntec Consultants
Adam Questad, Geosyntec Consultants
Brandon Steets, Geosyntec Consultants

Taunton Estuary Update—Proactive Program Triggers Reassessment of TN Controls Needed to Meet Dissolved Oxygen Standards and Narrative Nutrient Criteria
William Hall, Hall & Associates
John Hall, Hall & Associates

A Decision Support Tool to Increase Resilience for the Mouse River Enhanced Flood Protection Project
Laurie Kelindorfer, CDM Smith
Michael Schmidt, CDM Smith
Richard Wagner, CDM Smith

Mitigating Nutrient Impacts on a Stressed Watershed Through a New Ocean Outfall
Anastasia Rudenko, GHD
Marc Drainville, GHD
Kelvin George, GHD
Brandon Gott, GHD
Lenna Quackenbush, GHD

Wednesday 8:30–11:00 AM

Session 24
Asset Management 2:
Panel Discussion—Show Us the Money!
Funding Opportunities from Asset Management Through Construction
Moderators:
Daniel Roop, Tighe & Bond
Luis Adorno, NHDES

Provincetown

Sessions 24 – 28

This two-hour session will showcase funding opportunities throughout New England. The purpose of this panel is to provide a funding forum for attendees to learn from regulators and funding agents about a multitude of programs to support asset management planning projects, state revolving fund construction loans, climate adaptation plans, coastal resilience, water & environment rural development, and more. Panelists will present on their respective programs all the while interacting with the moderators and audience. Discussion is anticipated to ensue throughout the panel on how entities can actually fund, plan for, and implement the improvement and maintenance activities resultant from their asset management planning work.

Panelists include:
Luis Adorno, NHDES – Drinking Water Groundwater Bureau
Sharon Nall, NHDES – Wastewater Engineering Bureau, Water Division
Megan Young, Vermont DEC – Drinking Water Capacity Program Supervisor
Josh Lochhead, Vermont DEC – Drinking Water Capacity Program Specialist
Maria Pinaud, MassDEP Bureau of Water Resources – Acting Director, Municipal Services
Kelly Taylor, MassDEP Division of Municipal Services – State Revolving Fund Project Engineer
George Hicks, CT Department of Environmental Protection – Municipal Wastewater Section
Brandy Piers, Maine DEP – Grants Coordinator
Lyndon Nichols, USDA Rural Development MA Area Director

Exhibit Hall Break
2:30–3:00 PM

Exhibit Hall Break
9:30–10:00 AM
Wednesday
8:30–11:00 AM

Technical Sessions 24–28

Session 25
Sustainability: Making Positive Gains Toward Sustainable Outcomes
Moderators:
Courtney Eaton, Kleinfelder
Kara Keleher, Weston & Sampson
Suffolk

Strengthening Water Infrastructure Planning and Design Outcomes Using Sustainability Concepts Within the Envision Rating System
Jacob Cantor, Hazen and Sawyer
Evan Bowles, Hazen and Sawyer
Jorge Acevedo, City of Coral Gables, FL
Lauren Zuravnsky, Hampton Roads Sanitation District

Protecting the Future Through Sustainable Planning—Design to Prevent Catastrophic Failure in a Flood
Bill Davis, Weston & Sampson

Rising Above the Storm—Greater New Haven’s Resilient Pump Stations
Jay Sheehan, Woodard & Curran
Tom Sgroi, Greater New Haven WPCA

Green Steps Award Winner—Highlighting the Sustainability of the Globalcycle Water Reuse Process
Kyle Kennedy, Globalcycle, Inc.
Stephen Pozner, Globalcycle, Inc.

Session 26
CSO/Wet Weather 2: Projects Big and Bigger in CSO
Moderators:
Peter Frick, ADS Environmental Services-Idex
David Goncalves, Mott MacDonald
Simmons

Dip Your Toe into the Water—Alternative Analysis of Crossing Massachusetts’ Largest River
Debbie Cheng, Kleinfelder
Gus O’Leary, Kleinfelder

Hartford Metropolitan District Commission (MDC) Wet Weather Expansion Project (WWEP) Phase 2—New 200 MGD Wet Weather Treatment Facilities
Brian McGuire, Arcadis
Jeff Bowers, The Metropolitan District Commission

How Bangor, ME Expanded a 20-year old Storage Facility Threefold Along a Vibrant Waterfront
Kate Mignon, AECOM
Gregory Heath, AECOM
Andy Rudzinski, City of Bangor, ME
John Theriault, City of Bangor, ME

Boston Water and Sewer Commission—Real-time Predictive Modeling for the Dorchester Interceptor
John Rahill, Kleinfelder
Kenneth Yu, Kleinfelder

Wednesday
8:30–11:00 AM

Technical Sessions 24–28

Session 27
Plant Operations 4: Technologies
Moderators:
Dave Press, Tighe & Bond
Phil Forzley, Fuss & O’Neill
Salon C/D

Identifying Green Infrastructure Opportunities for Phosphorus Reduction Within Boston’s MS4
Benjamin Agrawal, Hazen and Sawyer
Charles Wilson, Hazen and Sawyer
Charlie Jewell, Boston Water and Sewer Commission

How Provincetown, MA used Porous Pavement to Reduce Beach Closures and Ended Up With an Unexpected Benefit
Marc Drainville, GHD
Russ Kleekamp, GHD
Sandra Tripp, GHD
Richard Waldo, Town of Provincetown, MA

Downstream Sediment Interception—a Unique BMP Application
Peter Enright, WSP

When Maintenance Drives Design—Collaboration in Philadelphia and NYC
Robert Woodman, ACF Environmental
Technical Sessions

Session 29
Stormwater 4:
Flood Mitigating Solutions, from Technology to Implementation

Moderators:
Erik Kelley, Environmental Partners Group
Jeff Cantwell, Flow Assessment Services

Salon A/B

Conquering the Great Divide—Redirecting Stormwater to Reduce Urban Neighborhood Flooding
Kate Goyette, Kleinfelder
Jerry Friedman, City of Cambridge, MA
David VanHoven, Stantec

Mitigating Flood Disaster Through a Renewed Approach
Asad Choudry, Xylem

Identifying Flood Mitigation Solutions for a Small, Coastal Community Impacted by Sea Level Rise
Joe Kirby, Woodward & Curran
Colleen Kennedy, Weston & Sampson

Innovative Solution for Urban Flood Mitigation—Planning, Monitoring, Control and Forecasting
Diana Qing Tao, Tetra Tech

Session 30
Collection System 4:
Various Topics

Moderators:
Ashley Dunn, City of Framingham, MA
Tom Loto, AECOM

Salon C/D

A Tale of Two Cities—How Two Massachusetts I/I Control Plans Compare City of Leominster, MA and City of Medford, MA
Karen Chan, Wright-Pierce
Lindsey Sylvester, Wright-Pierce

Should You Dig It? Trenchless Technology Saves Time & Money in Quincy, MA
Hernan Peralta, Woodward & Curran

One Way to Get Out of Your NPDES Permit—Regionalize and Decommission Your Wastewater Treatment Plant
Amy Sowitcky, Tighe & Bond
Lori Carriero, Tighe & Bond
Joe Fazzino, City of Middletown, CT

Engineering Evaluation of Extension of Coventry Route 44 Sewer Service Area to the Bolton Lakes Regional WPCA Pressure Sewerage System
Eric Hess, F.R. Mahony & Associates
Henry Albro, F. R. Mahony & Associates
Brian Curtis, Nathan L. Jacobson & Associates

Session 31
Utility Management:
Leading Utilities into the Future

Moderators:
Kevin Garvey, Wright-Pierce
Don Gallucci, Weston & Sampson

Provincetown

Massachusetts Water Resources Authority Deer Island Treatment Plant Capital Improvement Plan
Ethan Wenger, Massachusetts Water Resources Authority

Projects Approved! Now, How Do We Pay for It?
Rebecca Saucier, Wright-Pierce
Jason Randall, Plymouth Village Water and Sewer District
Don Jutton, Plymouth Village Water and Sewer District

Understanding the Impact of Brewery Discharges and Effective Approaches for Consideration
Michael Borchers, Arcadis
Ben Pearson, City of Portland, ME

Leveraging Technology to Increase Efficiency and Welcome the Next Generation of Utility Employees
Scott Medeiros, Woodward & Curran
Dave Billips, City of Westfield, MA
Francis Cain, City of Westfield, MA

Session 32
Youth Education:
Is Stormwater One Word or Two? Getting the MS4 Word(s) Out

Moderators:
Kerry Reed, City of Framingham, MA
Elena Proakis Ellis, City of Melrose, MA

Suffolk

Outfalls and Outreach—City of Cambridge's Stormwater Management Program
Andrew Goldberg, Kleinfelder
Catherine Woodbury, City of Cambridge, MA

Public Awareness Through Youth Watershed Education—5th Grade Stormwater Curricula
Dan Hoag, Worcester Polytechnic Institute
Brendan Chipman, Worcester Polytechnic Institute
Louis Doherty, Worcester Polytechnic Institute
Connor Field, Worcester Polytechnic Institute
Kerry Reed, City of Framingham, MA

Soak Up the Service II—Bioretention in Dover, NH
Kate Roosa, Kleinfelder
Danielle DiRuzza, Massachusetts Water Resources Authority
Eliza Morrison, Wright-Pierce

Partnering to Bring Stormwater Education In and Out of the Classroom
Meg Tabacsko, Massachusetts Water Resources Authority
Danielle DiRuzza, Massachusetts Water Resources Authority
Don Ciaramella, City of Revere, MA
Kori O’Hara, City of Revere, MA
The New England Water Environment Association (NEWEA) and the Northeast Water Innovation Network (NEWIN) are excited to announce their Second Annual Water Innovation Pavilion, taking place during the 2020 NEWEA Annual Conference. NEWEA and NEWIN, which will formalize a merger at the Annual Conference to incorporate NEWIN as the Innovation Council within NEWEA, 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 leading water innovations during our full-day program, which will feature panel discussions, Shark Tank pitches from graduate students, and exhibits from some of the most promising water innovators in the region. Come visit the Innovation Pavilion to meet with these innovators and learn about their developments.

Innovation Pavilion

Tuesday
8:00 AM – 4:00 PM
3rd Floor Atrium

Highlighting leading water-innovators and innovations

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Undergraduate Student Poster Board Competition

An Eco-Friendly Rechargeable Battery—Using Zero-Valent Iron to Power A Battery
Benjamin Page, University of Vermont

Clarifier Hydraulics and Design
Lily Orelup, University of Hartford

Tidal Flow Constructed Wetland for Water Reuse: Performance Evaluation and Microbial Population
Madeline DuBois, Jeff Ling, Louiza Wise, Paul Yi—Northeastern University

Hawks Coastal Design: Sowams Road—Soil Bank Stabilization
Maeve Drogalis, Vincent Neubert, Ali Abdul Sater, Ashley Bosse, Adrianna Cecere—Roger Williams University

Environmental Analysis of Industrial Cannabis Production
Stephanie Salerno, Jacquelyn Valsamis—Worcester Polytechnic Institute

Impact of Locally-Sourced Clay on the Bacterial Removal of Ceramic Water Filters
Jacob Hunnewell, Zachary Shepard—University of Rhode Island

Kenya Nguluni Water Supply Project
Abigail Laughlin, Emma Guertin, Alexandra Shea—University of Massachusetts Amherst

Engineers Without Borders—Ghana Project
Laura Townsend, University of Massachusetts Amherst

Application of Mycoremediation to Reduce Escherichia coli in Runoff
Tijana Cooley, Sofia Garcia-Carlin, Ojaswi Aryal—Smith College

Organism Diversity in Relation to F:M
Nicole Kibbe, Hailey Kukowski—University of Hartford

Graduate Student Poster Board Displays

Pilot-scale Investigation of Water Quality in Intermittent Water Supply
Mariam Alkattan, Dr. Emily Kumpel—University of Massachusetts Amherst

Tracking Algal Blooms: Does Chlorophyll Tell Us What We Need to Know?
McNamara Rome, Ed Beighley, Varshini Reddy—Northeastern University

Distribution of Per- and Polyfluorinated Alkyl Substances (PFAS) in Wastewater Treatment Plants
Elham Tavasoli; University of New Hampshire

Influence of floods, tides, and vegetation on sediment retention in Wax Lake Delta, Louisiana
Elizabeth Olliver, Indiana University Bloomington

Electrochemical Advanced Oxidation Processes for Ammonia Removal in Wastewater Treatment
Laura Siddon, Bridgette Charlebois—University of Massachusetts Amherst

Temporal Toxicity in Hydraulic Fracturing Wastewater from Black Shale Natural-Gas Wells in the Appalachian Basin
Mina Aghababaei, University of New Hampshire

Food Waste in Anaerobic Digestion
Usha Humagain, University of Maine

Evaluating Opportunities to Increase the Effectiveness of Permeable Reactive Barriers for Biological Treatment of Nitrogen
Veronica Gonzalez, Paul Dombrowski, C. Andrew Ramsburg—Tufts University

Evaluating Potassium Ferrate Performance in Drinking Water Treatment at Pilot Scale: Decreasing DBPs, Iron, and Manganese
Nicolas Duenas, University of Massachusetts Amherst

Physicochemical Implications of Cyanobacteria Oxidation with Fe(VI)
Erika L. Addison, Joseph E. Goodwill—University of Rhode Island
## Moderators

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<th>Session</th>
<th>Moderator</th>
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Presenters

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Annual Business Meeting

By vote of the Nominating Committee, I submit the following nominations in accordance with Article 9.3.1 of the NEWEA Constitution and Bylaws to the Executive Committee, for approval to place the slate of officers before the membership at the NEWEA Annual Business Meeting on January 27, 2020:

• Vice President – Frederick McNeill
• Treasurer – Clayton “Mac” Richardson
• Council Director – Collections Systems and Water Resources – Vonnie Reis
• WEF Delegate – Peter Garvey (WEFTEC 2020 through WEFTEC 2023)
• Massachusetts Director – Adam Yanulis
• Connecticut Director – William Norton
• Council Director – Innovation – Marianne (MacDonald) Langridge (to fill the newly-created office)

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

• President – Jennifer Kelly Lachmayr
• President-Elect – Virgil Lloyd
• Past President – Raymond Vermette

The remaining incumbents are fulfilling unexpired terms:

• WEF Delegate – Matthew Formica (through WEFTEC 2020)
• WEF Delegate – Susan Guswa (through WEFTEC 2021)
• WEF Delegate – James Barsanti (through WEFTEC 2022)
• Council Director – Communication – Meg Tabacsko (3rd year)
• Council Director – Meeting Management – Katelyn Biedron (2nd year)
• Council Director – Outreach – Justin Skelly (3rd year)
• Council Director – Treatment, System Operations, and Management – Philip Forzley (2nd year)
• Maine State Director – Jeffrey McBurnie (2nd year)
• New Hampshire State Director – Steven Clifton (2nd year)
• Rhode Island State Director – Scott Goodinson (3rd year)
• Vermont State Director – Christopher Robinson (3rd year)

Treasurer Report – 2019 Balance Sheet

Adjourn – Ray Vermette, NEWEA President

Help Build Congressional Support for Clean Water in New England

Join NEWEA at the National Water Policy Fly-In Water Week, April 27–28, 2020

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 2020.

• 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 Monday, April 27—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—Monday and Tuesday
• Congressional Reception—Tuesday evening, April 28

For more information call: Scott Firmin (207-774-5961 Ext. 3077), or Mary Barry (781-939-0908)
Exhibitors

**ABBA Pump Parts & Service**
Booth(s): 110
ABBA PARTS IS THE #1 AFTERMARKET PUMP PARTS MANUFACTURER IN NORTH AMERICA. REPLACEMENT PUMPS, PARTS and ASSEMBLIES to fit virtually all your ALLIS CHALMERS, FAIRBANKS MORSE®, WORTHINGTON AND SMITH & LOVELESS models.
Contact: Wendy Jamison, 5370 Munro Court, Burlington, ON L7L 5N8, tel: 800-268-5142, wendy_j@abbaparts.com, www.abbaparts.com

**ADS Environmental Services (Bronze Sponsor)**
Booth(s): 437 & 445
When municipal owners need to know about collection system flows, sewer levels, or the effects of rainfall they choose ADS® Trusted Solutions. Solutions to critical wastewater problems including SSOs, optimized sewer cleaning, CSOs, inflow & infiltration, hydraulic modeling, accurate sewer billing, and sewer capacity management rely on ADS
Contact: Matthew Brown, 51 Wentworth Ave Ste 15, Londonderry, NH 03053, tel: 256-656-6385, mbrown3@indexcorp.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

**Aegion-Underground Solutions, Inc./Insituteum Technologies, LLC**
Booth(s): 8
Aegion is an industry leader in developing transformational solutions to rehabilitate, maintain and strengthen aging infrastructure, especially pipelines in the wastewater, water, energy, mining and refining industries.
Contact: John Kosior, 17988 Edison Ave, Chesterfield, MO 63005, tel: 636-530-8000, jkosior@aegion.com, www.aegion.com

**Aeration Industries**
Booth(s): 444, 452, 453, 460, 461, 469
With Aeration Industries products we can provide a full range of wastewater treatment solutions to optimize municipal and industrial wastewater treatment applications, from process water supply to wastewater treatment, Sludge management to produced water return.
Contact: Jim Deluca, 154 West Grove St Unit D, Middleboro, MA 02346, tel: 508-947-5777, jdeluca@aquasolutionsinc.net, www.aquasolutionsinc.net, Rep: Aqua Solutions

**Aerus, LLC**
Booth(s): 209-210
Manufacturer of Air Purification and Water systems. We have an unmatched history of innovation for over 90 years, and the Smithsonian Institute recognized our Model 30 Canister Vaccum as one of the Top 100 US products ever designed.
Contact: Fernando Jasso Moreno, 14841 Dallas Pkwy Ste 500, Dallas, TX 75254, tel: 214-378-4047, fjasso-moreno@aurerusonline.com, www.aurerushome.com

**Airvac- a brand of Aqseptence Group**
Booth(s): 492
Airvac, a brand of Aqseptence Group, has provided cost-effective solutions for existing communities and new land developments for 50 years.

**Alfa-Laval**
Booth(s): 444, 452, 453, 460, 461, 469
Alfa-Laval is the market leader for dewatering and residual thickening equipment; decanters/ centrifuges, belt filter presses, gravity belt thickeners, rotary drum thickeners as well as sludge heat exchangers.
Contact: Jim Deluca, 154 West Grove St Unit D, Middleboro, MA 02346, tel: 508-947-5777, jdeluca@aquasolutionsinc.net, www.aquasolutionsinc.net, Rep: Aqua Solutions

**Amphidrome®**
Booth(s): 401-406
The Amphidrome® system is an affordable, energy efficient, customized onsite wastewater treatment solution designed to fit your site constraint and regulatory requirements.
Contact: Ed Quann, 273 Weymouth St, Rockland, MA 02370, tel: 781-982-9300, edquann@frmahony.com, www frmahony.com

**Amwell Clarifiers and Grit Equipment**
Booth(s): 444, 452, 453, 460, 461, 469
With Amwell we can offer one of the broadest lines of industry proven and time-tested clarifier equipment for the water and wastewater treatment industry; complete clarification equipment with value priced grit removal.
Contact: Jim Deluca, 154 West Grove St Unit D, Middleboro, MA 02346, tel: 508-947-5777, jdeluca@aquasolutionsinc.net, www.aquasolutionsinc.net, Rep: Aqua Solutions

**AP/M CentriPipe**
Booth(s): 162
AP/M Permacast® offers CentriPipe® and Permacast® systems for the trenchless repair of badly deteriorated manholes, pipe and similar underground structures. Additionally, CONmicSHIELD® liquid additive prevents MIC in concrete sanitary sewers.
Contact: Christine Caroll, PO Box 555, Johnston, IA 50131, tel: 800-662-6465, info@permaform.net, www.permaform.net

**Applied Dynamics**
Booth(s): 420
Applied Dynamics is a full service electro-mechanical sales & service company serving all of New England.
Contact: David Cunningham, 38 Butternut St, Greenfield, MA 01301, tel: 413-774-7268, dave@applied-dynamics.com, www.applied-dynamics.com

**Aquasolutions, Inc.**
Booth(s): 444, 452, 453, 460, 461, 469
Aquasolutions, 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.
Contact: Jim Deluca, 154 West Grove St Unit D, Middleboro, MA 02346, tel: 508-947-5777, jdeluca@aquasolutionsinc.net, www.aquasolutionsinc.net

**Asahi/America, Inc.**
Booth(s): 435, 436
Asahi provides thermoplastic fluid flow solutions for industrial, commercial and environmental applications. We maintain a custom fabrication department and also provide consultation, supervision and training.
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.
Contact: Mark DuBois, 185 Rowland St, Springfield, MA 01101, tel: 413-265-3560, mdubois@aemservices.com, www.aemservices.com

**Atlantic Fluid Technology Inc.**
Booth(s): 479, 480, 487, 488, 495, 496, 505, 506
Atlantic Fluid Technology is a manufacturer’s representative for engineered process equipment for the water reclamation, storm water, and drinking water treatment industries.
Contact: Moji Amini, 354 West Boylston St Ste 221, West Boylston, MA 01583, tel: 508-755-0440, moji@aftinc.com, www.aftinc.com

**Autrol / JWB Co.**
Booth(s): 422-425 & 430-433
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.
Contact: James Birkenberger, JWB Company, 65 August Ave, Wolcott, CT 06716, tel: (203)879-6959, jamie@jwbcompany.net, www.jwbcompany.net, Rep: JWB Company
Avanti International  
Booth(s): 196
Since 1978, Avanti International has been the only full-service provider and most experienced producer of high-quality injection grouts in North America which include acrylic, polyurethane, and Ultrafine cements.  
Contact: Chris Hamilton, 822 Bay Star Blvd, Webster, TX 77598, tel: 281-627-1875, chris.m.hamilton@avantigrout.com, www.avantigrout.com

Bai-Last™ Interlocking Ballast Systems  
Booth(s): 401-406
Bai-Last™ Interlocking Ballast Systems was developed as a safe and effective means to provide an efficient ballast solution for the installer of gringer pump bars.  
Contact: Henry Albro, Townsend, MA 01474, 978-808-4986, henry@interlockingballast.com, Rep: F.R. Mahony & Associates, Inc.

BAU/Hopkins / UGSI  
Booth(s): 422-425 & 430-433
BAU/HOPKINS is a Multi-Man Manufacturer’s Technical Representation serving the New England Marketplace. We specialize in Chemical Feed Products & Systems, Fluid Process Systems an Instrumentation. BAU/HOPKINS has a close working relationship with the JWB Company.  
Contact: Alan Hopkins - ahopkins@bauhopkins.com or Bob Hopkins - bhopkins@bauhopkins.com, tel: 508-699-9300, www.bauhopkins.com

BdP Industries  
Booth(s): 165
BdP Industries is a leading supplier of dewatering, thickening, and composting equipment with installations world wide. BdP’s main products include Belt Filter Press, Screw Press, Gravity Belt Thickener, Rotary Drum Thickener, and in-vessel Composting Systems.  

Biorem  
Booth(s): 156
Biorem offers an array of biological technologies for the removal of odors, Hydrogen Sulfide (H2S), Volatile Organic Compounds (VOCs) and hazardous air pollutants (HAPs).  
Contact: Peter Kibble, c/o The Maher Corporation 192 Pleasant St, Rockland, MA 02370, tel: 781-421-2600, pkibble@themahercorp.com, Rep: The Maher Corporation

BioWaste Solutions, LLC  
Booth(s): 204
Provide Pyrolysis Solutions to remediad sludge while capturing energy. This state of the art technology is self sustaining and environmentally friendly. The firm is currently completing a demonstration plant in Schenectady, NY to be online by end of March 2020.  
Contact: Samuel Sylvestsky, 1550 South Ocean Blvd, Lantana, FL 33462, tel: 518-421-4130, sam.sylvestsky@gmail.com, www.biowpro.com

Blake Group Holdings  
Booth(s): 191
Blake Equipment is a distributor and manufacturers’ representative of water and thermal energy Solutions with 13 locations throughout the Northeast. Where there’s a need for heat, treat, move, control water and conserve resources - Blake solves it.  
Contact: Bob Klybas, 4 New Park Rd, East Windsor, CT 06088, tel: 860-218-1010, bob.klybas@bghusa.com, www.blakequipco.com

Blue Ribbon Corp / JW Co.  
Booth(s): 422-425 & 430-433
Blue Ribbon offers submersible level transmitters for wastewater applications. Blue Ribbon invented the 1st cage style hydrostatic levle transmitter called the “Birdcage” that has revolutionalized level measurement in the most demanding sewage level monitoring applications. Products are made in the USA.  
Contact: James Birkenberger, JW Co., 65 August Ave, Wolcott, CT 06716. Tel: (203)879-6959, jamie@jwcwo.com, www.jwcwo.com, Rep: JW Company

BMC Corp (Event Sponsor)  
Booth(s): 161
Contact: Richard Corsetti, PO Box 60, Pinherust, MA 01866, tel: 781-273-0398, rich@pipjejector.com

Boerger Booth  
Booth(s): 152
The Börger BLUeline Rotary Lobe Pump is a self-priming, valveless, positive displacement pump used for the conveyance of viscous and abrasive materials.  
Contact: Peter Kibble, c/o The Maher Corporation 192 Pleasant St, Rockland, MA 02370, tel: 781-421-2600, pkibble@themahercorp.com, Rep: The Maher Corporation

Boyson and Associates, Inc.  
Booth(s): 497, 498
Boyson and Associates, Inc. was founded in 1985 and is a customer driven Water and Wastewater Solutions based Equipment Representative.  
Contact: Brian Boyson, 2 Little Tree Rd, Medway, MA 02053, tel: 508-889-6371, brian@boyson.com, www.wastewaterequipmentboyson.com

Brentwood Industries  
Booth(s): 154
Brentwood offers engineered water and wastewater treatment systems, including Polychem rectangular clarifiers, SedVac vacuum systems, AccuFAS submerged fixed-film media. Trickling filters, tube settler systems.  
Contact: Peter Kibble, c/o The Maher Corporation 192 Pleasant St, Rockland, MA 02370, tel: 781-421-2600, pkibble@themahercorp.com, Rep: The Maher Corporation

C.N. Wood Co., Inc.  
Booth(s): 450
Contact: Tom Fiore, 200 Merrimac St, Woburn, MA 01801, tel: 781-935-1919, tfiore@cn-wood.com, www.cn-wood.com

Carl Lueders & Company  
Booth(s): 485
Contact: Mark Lueders, 258 Main St Unit 6, Medfield, MA 02052, tel: 617-435-4622, markalueders@cs.com

Carlsen Systems (Silver Sponsor)  
Booth(s): 183
Representing Sulzer/ABS, Grundfos, Peerless, PACO, USEMCO, and GA Industries  
Contact: Craig Burmeister, 176 Amity Rd #102, Woodbridge, CT 65245, tel: 203-663-1314, info@carlensystems.com, www.carlensystems.com

Casella Organics (Event Sponsor)  
Booth(s): 150
Casella Organics is an industry leader in the transportation, recycling, processing and marketing of organics and mineral resources including biosolids, short paper fiber, ash, liming agents, food wastes, and compost.  
Contact: Patrick Ellis, 4 Channel Dr Ste 200, Concord, NH 03301, tel: 603-290-5819, Patrick.Ellis@casella.com, www.casella.com/casella-organics

Claro  
Booth(s): 438
Claro provides headworks screens and washer-compactors, shaftless screw conveyors, septage receiving stations with complete billing systems, and complete digester systems.  
Contact: Bob Mack, 1 DeAngelo Dr, Bedford, MA 01730, tel: 781-275-1001, bob@ne3inc.com, www.ne3inc.com, Rep: NE3

Continental Blowers  
Booth(s): 444, 452, 453, 460, 461, 469
Continental’s centrifugal multistage and single-stage geared-driven blowers are on the job — right now, and around the clock every day of the year — at municipal and industrial water and wastewater treatment plants throughout North America.  
Contact: Jim Deluca, 154 West Grove St Unit D, Middleboro, MA 02346, tel: 508-947-5777, jdeluca@aquasolutionsinc.net, www.aquasolutionsinc.net, Rep: Aqua Solutions, Inc.

Coyne Environmental Services  
Booth(s): 127
Chemical distributor for all your wastewater treatment requirements along with the technical expertise to perform on site evaluations for all products offered.  
Contact: Kevin Brassard, 3015 State Rd, Croydon, PA 19021, tel: 215-785-3000, kbrassard@coynechemical.com, www.coyneenvironmental.com

Cretex Specialty Products  
Booth(s): 199
Leading manufacturer of Mechanical Internal and External Manhole Frame-Chimney Seals and other products used to stop or prevent Inflow & Infiltration, including PRO-RING®, a lightweight grade adjustment system used for manholes/underground utility structures.  
Contact: Lee Haessig, N25 W23790 Commerce Cir Ste E, Waukesha, WI 53188, tel: 262-542-8153, lhaessig@cretexseals.com, www.cretexseals.com

CSI Controls  
Booth(s): 417
Dependable water and waste control solutions  
Contact: Greg Harmon, 220 Ohio St, Ashland, OH 44805, tel: 207-998-8171, greg.harmonco@gmail.com, www.csiscontrols.com
CST Booth(s): 176
CST designs innovative clear-span aluminum covers for wastewater process and water storage tanks that help control odorous emissions and prevent water intrusion.
Contact: Kim Mathis, 498 N. Loop 336 E, Conroe, TX 77301, tel: 832-655-3874, kmathis@cstindustries.com, www.cstindustries.com

CUES Booth(s): 109
As the world’s leading manufacturer of water, wastewater, and storm water inspection equipment, CUES provides the necessary tools for both pipeline inspection and repair.
Contact: Terri Mooney, 3600 Rio Vista Ave, Orlando, FL 32805, tel: 800-327-7791 Ext. 221, terrim@cuesinc.com, www.cuesinc.com

David F. Sullivan & Associates, Inc. (Bronze Sponsor) Booth(s): 164-167 & 173-177
Featuring Evoqua’s CoMag, BioMag, and PFAS technologies; Gryphon modular sludge dryers; Westech process equipment; Roots/Turblex blowers; Medora mixing systems; Duperon fine screens; Kubota MBR; Fontaine gates; Groth and Unison Solutions for Biogas applications; BDP thickening and dewatering equipment; Flottweg centrifuge; and more.
Contact: Mike Sullivan, 19 Batchelder Rd, Ste 2B, Seabrook, NH 03874, tel: 603-474-2484, info@davidsullivan.com, www.davidsullivan.com

De Nora Water Technologies, Inc. Booth(s): 401-406
De Nora Water Technologies is a leader in disinfection and filtration technologies.
Contact: Chris Hubbard, Regional Sales Manager - Northeast, tel: 267-517-1844, chris.hubbard@denora.com, Rep F.R. Mahony & Associates, Inc.

Denali Water Solutions, LLC 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.
Contact: Anita Dean, 3308 Bernice Ave, Russellville, AR 72802, tel: 978-979-5916, anita.dean@denaliwater.com, www.denaliwatersolutions.com

Denora / BAU Hopkins Booth(s): 422-425 & 430-433
Denora offers Chlorination & Dechlorination Equipment: Capital Controls Cylinder Mounted Chlorinators, Wall or Tank Mounted Chlorinators, Cabinet Mounted Chlorinators, Automatic Controls for Chlorinators.
Contact: Alan Hopkins - aphopkins@bauhopkins.com or Bob Hopkins - bhopkins@bauhopkins.com, tel: 508-699-9300, www.bauhopkins.com, Rep: BAU Hopkins

Diversified Infrastructure Services Inc. (Event Sponsor) Booth(s): 217
DIS provides services to the water/wastewater collection systems industry, survey services to public/private sectors as well as services to energy and power delivery markets..
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, Inc. Booth(s): 478
Precast, Prestressed Concrete Tanks
Contact: Corey Meyers, 11 Teal Rd, Wakefield, MA 01880, tel: 781-246-1133, corey.meyers@dtntanks.com, www.dntanks.com

DUKES ROOT CONTROL (Bronze Sponsor) Booth(s): 491
ROOT CONTROL DONE RIGHT
Contact: Laurence Aldrich, 1020 Hiawatha Blvd West, Syracuse, NY 13204, tel: 860-798-0982, larry@dukes.com, www.dukes.com

Duperon Corp. Booth(s): 174
Duperon Corporation, the leader in liquids/solids separation solutions, provides solutions for coarse and fine screening, low flow screening, perforated plate screening, washing, compacting, and conveying.
Contact: Lorene Bruns, 515 N Washington, 1st Fl, Saginaw, MI 48607, tel: 989-754-8800, lubruns@duperon.com, Rep: David F. Sullivan & Associates

ECS Booth(s): 152
O dor Control Systems Specializing in Carbon Adsorbers, Chemical Scrubbers, FRP Chemical Storage Tanks, Sound Enclosures, Covers and Buildings, AMCA certified FRP dumper/ductor systems.
Contact: Peter Kibble, c/o The Maher Corporation 192 Pleasant St, Rockland, MA 02370, tel: 781-421-2600, pkibble@themahercorp.com, Rep: The Maher Corporation

Egger Pumps Booth(s): 444, 452, 453, 460, 461, 469
Egger Pumps is the industry leader in the area of difficult liquids and liquids with a tendency to clog, they work exceptionally well in wastewater applications and sludge. Egger can be used in various processes including Suez®, Alfa®, FKC® and others.
Contact: Jim Deluca, 154 West Grove St Unit D, Middleboro, MA 02346, tel: 508-947-5777, jdeluca@aquasolutionsinc.net, www.aquasolutionsinc.net, Rep: Aqua Solutions

ElectroScan, Inc. / JW Co. Booth(s): 422-425 & 430-433
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
Contact: James Birkenberger, JW Company, 65 Ave Ave, Wolcott, CT 06716, Tel: (203)879-6959, jamie@jwcompany.com, www.jwcompany.com, Rep: JW Company

EMS New England Booth(s): 197
Manufacturers’ rep for electrical products & electrical safety products for the Waste-water industry.
Contact: Steve Graboski, 65 South Turnpike Rd, Wallingford, CT 06492, tel: 860-841-7141, sgraboski@emsnewengland.com, www.emsnewengland.com

Environment One Corporation Booth(s): 401-406
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.
Contact: Christopher Nedwick, 2773 Balltown Rd, Niskayuna, NY 12309, tel: 518-596-2186, eone@eone.com, Rep: F.R. Mahony & Associates, Inc.

Environmental Dynamics International Booth(s): 164
Environmental Dynamics International (EDI) is the largest supplier of aeration equipment to the aeration market in the US, and will soon be the largest worldwide.
Contact: Mark Duehmig, 5601 Paris Rd, Columbia, MD 21020, tel: 443-254-2670, mark.duehmig@environmentaldynamics.com, Rep: David F. Sullivan & Associates

Environmental Operating Solutions, Inc. (EOSi) Booth(s): 449
Environmental Operating Solutions, Inc. (EOSi) has been providing green chemicals and technical services for biological contaminant removal applications in water and wastewater treatment systems since 2003.
Contact: Ben Smith, 160 MacArthur Blvd Ste 6, Bourne, MA 02532, tel: 603-361-0816, bsmithe@micoroc.com, www.micoroc.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): 177
Evoqua Water Technologies provides solutions and products for water & wastewater treatment.
Contact: Rob Biase, 409 Hastings Dr, Cranberry Township, PA 16066, tel: 724-312-3336, robert.biase@evoqua.com, Rep: David F. Sullivan & Associates
F. R. Mahony & Associates, Inc. (Event Sponsor) Booth(s): 401-406
We are a water and wastewater manufacturers’ representative celebrating over 55 years 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: David B. Mundie, President, tel. 615-256-6678, david.mundie@htt.io, Rep: F.R. Mahony & Associates

Flottweg Separation Technology Booth(s): 166
Flottweg is the leading innovator and manufacturer of decanter centrifuges for liquid-solids separation used in dewatering and thickening applications for municipal wastewater and water treatment plants, as well as industrial, dairy and agricultural operations worldwide.
Contact: John Yatcilla, 143A Rowayton Ave, Norwalk, CT 06853, tel: 203-838-6120, jyatcilla@flottweg.net, Rep: David F. Sullivan & Associates

Flow Assessment Services, LLC (Platinum Sponsor) Booth(s): 135, 136
Contact: Paul Casey, 72 Priscilla Lane, Auburn, NH 03032, tel: 603-656-9799, p2casey@flowassessment.com

Flow Tech, Inc. Booth(s): 171
Flow Tech, Inc. proudly serves New England’s water and wastewater markets. We are the local representative of ABB ACS80 variable frequency drives.
Contact: Brian Robinson, 10 Bidwell Rd, South Windsor, CT 06074, tel: 860-221-0875, robinson@flowtechnic.com

Flowserve Pump Booth(s): 444, 452, 453, 460, 461, 469
Flowserve Pump is a leading manufacturer of pumping equipment for the water and wastewater market. Some of the manufacturers under the Flowserve umbrella are Worthington, Ingersoll-Rand, Deming-Dresser Pump & DURCO.
Contact: Jim Deluca, 154 West Grove St Unit D, Middleboro, MA 02346, tel: 508-947-5777, jdeluca@aquasolutionsinc.net, www.aquasolutionsinc.net, Rep: Aqua Solutions, Inc.

FlowWorks Booth(s): 443
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: 206-496-2574, tkamins@flowworks.com

Ford Hall Company Booth(s): 174
Weir Wolf™ by Ford Hall: 30 + Years, 49 States, Canada, Asia, Australia, 5 Year Warranty on TurnKey Installation. Automated Clarifier Cleaning that Works!
Contact: Jerry Ristau, 301 LowerHines Creek Rd, Richmond, KY 40476, tel: 859-624-1077, jristau@fordhall.com, Rep: David F. Sullivan & Associates

Franklin Miller Inc. Booth(s): 401-406
An innovative force in wastewater grinding for in-line, open channel, septic receiving, screening technology, and gravity systems.
Contact: Joe Macula, 60 Okner Pkwy, Livingston NJ 07039, tel: 973-533-6457, jmacula@franklinmillerc.com, Rep: F.R. Mahony & Associates, Inc.

Fusion Environmental Solutions Booth(s): 466
Our mission is “fusing quality products with reliable services”. Fusion Environmental Solutions is a company that specializes in the control and management of grease and odor in wastewater collection systems and pump stations.
Contact: Stephen Buckley, 1177C Jefferson Blvd, Warwick, RI 02886, tel: 508-742-7324, sbuck1421@gmail.com, www.fusionenvironmentalsolutions.com

GA Fleet - Fleet Pump & Service Booth(s): 137
Fleet offers the finest pumps, controls, process and service. We represent the most respected names including Flygt, Sanitaire, Westech, Kaeser in wastewater and water treatment and provide quality engineered systems for the entire municipal market.
Contact: Serdar Umr, 6 International Dr, Rye Brook, NY 10573, tel: 914-548-6062, sumur@gafleet.com, www.gafleet.com

Gabriel Novac & Assoc. Booth(s): 166
GNA designs and manufacturers CSO and stormwater equipment such as Hydroslide flow regulators, Hydroself, Hydroflush, and Hydroclean fine brush screen.
Contact: Gabriel Novac, 107 Lawrence Paquette Dr, Champlain, NY 12919, tel: 866-746-2276, gnovac@gnacco.com, www.gnacco.com, Rep: David F. Sullivan & Assoc., Inc.

GEA Westfalia Booth(s): 158
GEA Westfalia centrifuges for dewatering and thickening. Featuring multiple US service centers, on-site service from GEA certified technicians and extensive US spare parts inventory.
Contact: Peter Kibble, c/o The Maher Corporation 192 Pleasant St, Rockland, MA 02370, tel: 781-421-2600, pkibble@themahercorp.com, Rep: The Maher Corporation

Green Mountain Pipeline Services (Silver Sponsor) Booth(s): 442
Offering a wide range of Pipeline Rehabilitation and Inspection Services to meet your trenchless pipeline needs.
Contact: Ray Bahr, 768 South Main St Unit 1, Bethel, VT 05032, tel: 800-986-1072, ray@greenmountainpipe.com, www.greenmountainpipe.com

Grundfos Water Utility, Inc. Booth(s): 167
Grundfos provides a comprehensive range of optimized water solutions for the North American water utility Industry. Grundfos is a full line supplier of reliable products.
Contact: Michael Ciacciarella, 902 Koomey Rd, Brookshire, TX 77423, tel: 203-257-3081, mciacciarella@grundfos.com, www.us.grundfos.com

Hach Booth(s): 193
Hach’s broad line of instrumentation and chemistries have been carefully crafted for more than 80 years to make water analysis better - faster, simpler, greener and more informative - so you get it right the first time, every time.
Contact: Greg Bleszinski, 55 Hedgerose Way, Manchester, NH 03102, tel: 860-690-5236, gbleszini@hach.com

HACH Flow Group / JWB Co. Booth(s): 422-425 & 430-433
Contact: James Birkenberger, JWB Company, 65 August Ave, Wolcott, CT 06716, tel: (203)879-6959, jamie@jwbcompany.net, www.jwbcompany.net, Rep: JWB Company

Hayes Pump Inc. (Bronze Sponsor) Booth(s): 470, 471, 472
Founded in 1898, Hayes Pump, Inc. is a full service stock dealer distributor offering pumps, parts, service, and repair
Contact: Craig Huff, 6 Old Powder Mill Rd, West Concord, MA 01742, tel: 978-369-8800, chuff@hayespump.com, www.hayespump.com

Hazen and Sawyer (Silver Sponsor) Booth(s): 139
Hazen and Sawyer is one of the top technical firms in the water market. We focus solely on water, offering integrated expertise in drinking water, wastewater, stormwater, and reuse.
Contact: Hazen and Sawyer, 24 Federal St 5th Fl, Boston, MA 02110, tel: 617-574-4747, www.hazenandsawyer.com

Hidrostal Pump Booth(s): 444, 452, 453, 460, 461, 469
Hidrostal is the original manufacturer for the screw-centrifugal pumps. These pumps are very efficient, handle large solids and are gentle on floc for RAS applications. Pumping solutions for solids and sludge handling.
Contact: Jim Deluca, 154 West Grove St Unit D, Middleboro, MA 02346, tel: 508-947-5777, jdeluca@aquasolutionsinc.net, www.aquasolutionsinc.net, Rep: Aqua Solutions, Inc.

High Tide Technologies Booth(s): 401-406
Cloud based SCADA supplier using Cellular, Satellite, and Ethernet Communications. Monitoring and control for Water, Wastewater, natural gas, and just about anything else you can imagine.
Contact: David B. Mundie, President, tel. 615-256-6678, david.mundie@htt.io, Rep: F.R. Mahony & Associates
Hobas Pipe USA Booth(s): 142
HOBAS (CCFRPM) Pipes are centrifugally cast, glass-fiber-reinforced, polymer mortar. These large diameter pipes are ideally suited for nearly all corrosive piping applications.
Contact: John Mele, 1413 E Richey Rd, Houston, TX 77073, tel: 908-313-1935, jmele@hobaspipe.com, www.hobaspipe.com

Holland Company Booth(s): 500
New England’s leading manufacturer of high quality inorganic coagulants for water purification. Aluminum Sulfate, Polyaluminum Chloride, Sodium Aluminate, Aluminum Chlorohydrate and blends. Onsite testing and recommendations provided.
Contact: Matt Holland, 153 Howland Ave, Adams, MA 01220, tel: 413-743-1292, matt.holland@hollandcompany.com,

Howden Booth(s): 165
Howden’s range of fans, blowers, compressors and steam turbines, together with premier brands Roots and Turblex, are highly reliable and efficient solutions for the environmental market.
Contact: Ricardo Alzate, 4654 W. Junction St, Springfield, MO 65802, tel: 417-576-8169, ricardo.alzate@howden.com, www.howden.com

Hubbard-Hall Inc. (Event Sponsor) Booth(s): 179
Customer-driven since our founding in 1849, we’re proud of our 99.8% product consistency, 94.8% on-time shipments, and 88.9% customer retention rate.
Contact: Suzie Her, 563 S Leonard St, Waterbury, CT 06720, tel: 864-472-9031, sher@hubbardhall.com, www.hubbardhall.com

Hydro International Booth(s): 444, 452, 453, 460, 461, 469
Hydro International’s water and wastewater products are designed to increase the operational efficiency of water processing equipment used in wastewater, clean water, industrial, and agricultural treatment applications.
Contact: Jim Deluca, 154 West Grove St Unit D, Middleboro, MA 02346, tel: 508-947-5777, jdeluca@aquasolutionsinc.net, www.aquasolutionsinc.net, Rep: Aqua Solutions, Inc.

ICL Dover Booth(s): 169
Providing flood protection solutions for commercial buildings and critical infrastructure. Systems based on high strength engineered fabrics for easy deployment and superior water and impact resistance.

Infra Pipe Solutions Ltd. Booth(s): 149
Manufacturer of large diameter profile wall HDPE pipe from 18”-132” for CSO Storage & conveyance, stormwater, WWTP, Interceptor and other storage and conveyance applications.
Contact: Mark Listser, 6507 Mississauga Rd, Mississauga, ON L5N 1A6, tel: 416-882-6751, mark.lister@infrapipes.com, www.infrapipes.com

Integrity Municipal Systems / BAU Hopkins Booth(s): 422-425 & 430-433
Integrity Municipal Systems is an engineering company devoted to designing and supplying innovative, pre-assembled, process solutions for the water and wastewater industry. Both standard and custom designs are offered.
Contact: Alan Hopkins - ahopkins@bauhopkins.com or Bob Hopkins - bhopkins@bauhopkins.com, tel: 508-699-9300, www.bauhopkins.com, Rep: BAU Hopkins

Invent Booth(s): 444, 452, 453, 460, 461, 469
With Invent aeration we can offer a range of aeration and mixing solutions in combination with blowers, as well as stand alone mixer solutions all customized for individual demands.
Contact: Jim Deluca, 154 West Grove St Unit D, Middleboro, MA 02346, tel: 508-947-5777, jdeluca@aquasolutionsinc.net, www.aquasolutionsinc.net, Rep: Aqua Solutions, Inc.

ITpipes Booth(s): 198
Pipeline inspection software with GIS and Asset Management Integration. Powerful integration with ESI ArcGIS Online mapping gives you pipelineanalytics visualization.
Contact: Ross Brown, 4921 Alexander Blvd NE Ste B, Albuquerque, NM 87107, tel: 262-347-7581, ross@itpipes.com, www.itpipes.com

J.F. McDermott Corporation Booth(s): 419
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
Contact: Brendan Kennedy, 1235 Auburn St, Whitman, MA 02382, tel: 508-580-7740, brendan@jfmcdermott.com

J&R Sales and Service, Inc. Booth(s): 414
J&R Sales and Service, Inc. (J&R) is a manufacturers representative for two onsite wastewater treatment technologies. J&R represents BioMicrobes and GEOFLOW throughout New England in sales, installation support, and warranty issues.
Contact: Lauren Usilton, 44 Commercial St Ste 8, Raynham, MA 02767, tel: 508-823-9566, laurenus@jrsalesinc.com, www.jrsalesinc.com

JWB Company Booth(s): 422-425 & 430-433
JWB Company is a Manufacturer’s representative covering the 6 New England States. JWB Company specializes in SCADA, telemetry, level, flow, pressure and analytical instrumentation. JWB Company has a close working relationship with BAU/Hopkins.
Contact: James Birkenberger, 65 August Ave, Wolcott, CT 06716. Tel: (203)879-6959, jamie@jwbcompany.net, www.jwbcompany.net

JWC Environmental Booth(s): 444, 452, 453, 460, 461, 469
With JWC Environmental we can offer the experience of over 40,000 successful Monster installations around the world in a wide range of municipal wastewater applications.
Contact: Jim Deluca, 154 West Grove St Unit D, Middleboro, MA 02346, tel: 508-947-5777, jdeluca@aquasolutionsinc.net, www.aquasolutionsinc.net, Rep: Aqua Solutions, Inc.

Kemira Water Solutions Booth(s): 484
Kemira is a global chemicals company serving customers in water intensive industries. We provide expertise, application know-how and chemicals that improve our customers’ product quality, process and resource efficiency.
Contact: Catherine Brousseau, 1000 Parkwood Cir Ste 500, Atlanta, GA 30339, tel: 514-601-5785, catherine.brousseau@kemira.com, www.kemira.com

Kimley-Horn and Associates, Inc. Booth(s): 415
For numerous utilities nationwide, Kimley-Horn has demonstrated a passion for all aspects water and wastewater engineering services.
Contact: Will Schafer, 11400 Commerce Park Dr Ste 400, Reston, VA 20191, will.schafer@kimley-horn.com

Kleinfelder (Bronze Sponsor) Booth(s): 213
We are engineers, scientists and construction professionals providing planning, design and construction solutions that improve our clients’ water infrastructure.
Contact: Ben Stoddard, One Beacon St Ste 8100, Boston, MA 02108, bstoddard@kleinfelder.com, www.kleinfelder.com

Lakeside Booth(s): 181
Serving New England with more than 110 RAPTOR Screens, 40 Oxidation Ditches, 60 Spiral Fl Flows, 25 Chlorine Dioxide installations, and 20 Screw Pump installations.
Contact: Peter Kibble, c/o The Maher Corporation 192 Pleasant St, Rockland, MA 02370, tel: 781-421-2600, pkibble@themahercorp.com, Rep: The Maher Corporation

LandTech Consultants, Inc. Booth(s): 111
For three decades, LandTech Consultants has provided civil engineering, land surveying, laser scanning, and modeling services to the AEC community.
Contact: Christopher Lorrain, 515 Groton Rd 2nd Fl, Westford, MA 01886, tel: 978-692-6100, chrislorrain@landtechconsultinc.com, www.landtechnology.com

LLumin, Inc. Booth(s): 101
LLumin’s fully automated work order management and labor, part and cost tracking software solution enable municipalities to efficiently streamline and manage their operations and assets.
Contact: Ed Garibian, 59 Interstate Dr Ste 30, West Springfield, MA 01089, tel: 413-233-5404, ed@llumin.com, www.llumin.com
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<tr>
<th>Company Name</th>
<th>Booth(s)</th>
<th>Contact Information</th>
<th>Details</th>
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<tr>
<td>Lone Star Blower, Inc.</td>
<td>401-406</td>
<td>Alex Lequito, 8883 West Monroe Rd, Houston, TX 77061, tel: 832-532-3112, <a href="mailto:alequito@lonestarblower.com">alequito@lonestarblower.com</a>, Rep: F.R. Mahony &amp; Associates, Inc.</td>
<td><strong>Lone Star</strong> is the premier manufacturer of Geared, Gearless, and Multistage Turbo blowers and Control Systems located in Houston, TX.</td>
</tr>
<tr>
<td>Madewell Products Corp.</td>
<td>499</td>
<td>Craig Closser, 7561 Industrial Ct. Alpharetta, GA 30004, tel: 775-810-3497, <a href="mailto:craig@madewell.net">craig@madewell.net</a>, <a href="http://www.madewell.net">www.madewell.net</a></td>
<td>Madewell Products Corporation manufactures a variety of cementitious and epoxy products for brick, concrete and different types of pipe. Some of these products are combined to form the Mainstay Composite Liner.</td>
</tr>
<tr>
<td>Malt Sales Company</td>
<td>160</td>
<td>Joe Witts, 67 Green St Ste A, Foxboro, MA 02035, tel: 508-203-2400, <a href="mailto:joew@maltsales.com">joew@maltsales.com</a>, <a href="http://www.maltsales.com">www.maltsales.com</a></td>
<td>Malt Sales Company, the leader in fluid handling for the municipal market in New England. We offer solutions such as wet and dry pit submersible pumps, transfer pumps, plant water booster systems, chemical feed pumps, chemical storage tanks and mixers.</td>
</tr>
<tr>
<td>Mechanical Solutions Inc.</td>
<td>102, 104</td>
<td>Gary MacDonald, PO Box 848, Manchester, CT 06045, tel: 860-290-1564, <a href="mailto:gmacdonald@msipump.com">gmacdonald@msipump.com</a>, <a href="http://www.msipump.com">www.msipump.com</a></td>
<td><strong>MSI is a manufacturer rep for the six states of New England for high quality pumping systems, very efficient mixing equipment, the innovative DeRagger and reliable chemical feed systems.</strong></td>
</tr>
<tr>
<td>MGD Process Technology Inc.</td>
<td>401-406</td>
<td>Matthew Dickson, PO Box 654, Boylston, MA 01505, tel: 508-869-2164, <a href="mailto:Matt.Dickson@mgdprocess.com">Matt.Dickson@mgdprocess.com</a>, Rep: F.R. Mahony &amp; Associates, Inc.</td>
<td><strong>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</strong></td>
</tr>
<tr>
<td>MWH Constructors (Silver Sponsor)</td>
<td>199</td>
<td>Amanda Oliveira, 370 Interlocken Blvd Ste 300, Broomfield, CO 80021, tel: 857-299-7440, <a href="mailto:amanda.olevira@mwhconstructors.com">amanda.olevira@mwhconstructors.com</a>, <a href="http://www.mwhconstructors.com">www.mwhconstructors.com</a></td>
<td>MWH is a leading global project delivery company focusing on water and biomass/renewables. MWH's multi-disciplined team of engineering and construction professionals delivers a wide range of projects.</td>
</tr>
<tr>
<td>National Filter Media</td>
<td>126</td>
<td>Randy Carlsen, 12 Winada Dr., Winthrop, ME 04364, tel: 207-377-2626, <a href="mailto:rcarlsen@nfm-filter.com">rcarlsen@nfm-filter.com</a>, <a href="http://www.nfm-filter.com">www.nfm-filter.com</a></td>
<td>In over 100 years, National Filter Media has become one of the largest filter media companies in the world. We have the technology and personnel necessary to provide you the right filter media.</td>
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**National Water Main Cleaning Company**

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<th>Company Name</th>
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<th>Details</th>
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<tr>
<td>NEXOM</td>
<td>444, 452, 453, 460, 461, 469</td>
<td>Jim Deluca, 154 West Grove St Unit D, Middleboro, MA 02346, tel: 508-947-5777, <a href="mailto:jdeluca@aquasolutionsinc.net">jdeluca@aquasolutionsinc.net</a>, <a href="http://www.aquasolutionsinc.net">www.aquasolutionsinc.net</a>, Rep: Aqua Solutions, Inc.</td>
<td>The wastewater industry has seen how nutrients have exposed the limits of existing solutions. Nexo design and supplies the next wave of proven technologies for cleaner water so municipalities and industries can confidently meet and exceed every requirement.</td>
</tr>
<tr>
<td>Next Turbo</td>
<td>444, 452, 453, 460, 461, 469</td>
<td>Jamie Closser, JW Company, 65 August Ave, Wolcott, CT 06716, Tel: (203)879-6959, jwbcompany.net, <a href="http://www.jwbcompany.net">www.jwbcompany.net</a>, Rep: JW Company</td>
<td>Next Turbo designs and manufacturers highest efficiency, modern single stage turbo compressors for the aerated process focused mainly on the water waste treatment industry.</td>
</tr>
<tr>
<td>Nivelco /JWB Co</td>
<td>422-425 &amp; 430-433</td>
<td>James Birkenberger, JW Company, 65 August Ave, Wolcott, CT 06716, Tel: (203)879-6959, jwbcompany.net, <a href="http://www.jwbcompany.net">www.jwbcompany.net</a>, Rep: JWB Company</td>
<td>Nivelco, USA, is an industry leader in non contact and contact level monitoring instrumentation. Technologies include ultrasonic, radar, &amp; guide wave radar.</td>
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<tr>
<td>NOresco</td>
<td>418</td>
<td>John DiModica, 1 Research Dr Ste 400C, Westborough, MA 01581, tel: 617-945-3699, <a href="mailto:jdimodica@noresco.com">jdimodica@noresco.com</a>, <a href="http://www.noresco.com">www.noresco.com</a></td>
<td>NOresco is an infrastructure project developer serving municipal water and wastewater utilities and other government and institutional customers.</td>
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<tr>
<td>NuvoDA</td>
<td>444, 452, 453, 460, 461, 469</td>
<td>Jamie Closser, JW Company, 65 August Ave, Wolcott, CT 06716, Tel: (203)879-6959, jwbcompany.net, <a href="http://www.jwbcompany.net">www.jwbcompany.net</a>, Rep: JW Company</td>
<td>NuvoDA was founded in 2006 as Renewable Fibers, LLC with the vision of using the core of the kenaf plant as an additive in wastewater treatment to assist in the biological processes which drive modern wastewater treatment.</td>
</tr>
<tr>
<td>Oakson</td>
<td>483</td>
<td>Rob Sarmanian, 6 Sargent St, Gloucester, MA 01930, tel: 978-282-1322, <a href="mailto:rob@oakson.com">rob@oakson.com</a>, <a href="http://www.oakson.com">www.oakson.com</a></td>
<td>The Perc-Rite® Drip Dispersal system is a non-invasive, flexible, and environmentally sensitive solution for sludge mixing and aeration. Oakson is a leading global manufacturer of aerators for the water treatment industry.</td>
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<tr>
<td>Obert-Read &amp; Associates (Event Sponsor)</td>
<td>408</td>
<td>Craig Closser, 7561 Industrial Ct, Alpharetta, US 30004, tel: 765-810-3497, <a href="mailto:craig@madewell.com">craig@madewell.com</a>, <a href="http://www.madewell.com">www.madewell.com</a></td>
<td>Obert-Read &amp; Associates is a Manufacturers Representative providing pump and aeration blower products to the Water Treatment industry. Contact: Scott Strang, 31 Business Park Dr Unit H, Branford, CT 06405, tel: 203-481-0341, <a href="mailto:info@ober-read.com">info@ober-read.com</a>, <a href="http://www.ober-read.com">www.ober-read.com</a></td>
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<tr>
<td>Company Name</td>
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<td>Opti Float / Cox Research / JWB Co.</td>
<td>422-425 &amp; 430-433</td>
<td>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.</td>
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<tr>
<td>Contact: James Birkenberger, JWB Company, 65 August Ave, Wolcott, CT 06716. Tel: (203)879-6959, <a href="mailto:jamie@jwbcompany.net">jamie@jwbcompany.net</a>, <a href="http://www.jwbcompany.net">www.jwbcompany.net</a>, Rep: JWB Company</td>
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<td>OR-TEC, Inc.</td>
<td>401-406</td>
<td>OR-TEC is a customer-oriented company that designs, manufactures and markets high quality sludge dewatering, chemical dosing, flotation, screening and conveying equipment.</td>
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<tr>
<td>Contact: Tyler Richard, 14500 Industrial Ave, South, Cleveland, OH, tel: 216-475-5225, <a href="mailto:tyler@ortec.com">tyler@ortec.com</a>, Rep: F.R. Mahony &amp; Associates, Inc.</td>
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<td>Orenco Systems Inc.</td>
<td>172</td>
<td>Since 1981, Orenco Systems Inc. has researched, designed, and manufactured innovative onsite and decentralized wastewater collection and treatment technologies.</td>
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<tr>
<td>Contact: Christopher Hayward, 814 Airway Ave, Sutherlin, OR 97479, tel: 541-459-4449, <a href="mailto:chayward@orenco.com">chayward@orenco.com</a>, <a href="http://www.orenco.com">www.orenco.com</a></td>
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<td>P&amp;H Senesac Inc.</td>
<td>103</td>
<td>Mobile Sludge Dewatering Services</td>
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<td>Contact: Alyssa Newell, PO Box 577, Milton, VT 05468, tel: 802-524-7013, <a href="mailto:phsenesacinc@gmail.com">phsenesacinc@gmail.com</a>, <a href="http://www.pondtechnical.com">www.pondtechnical.com</a></td>
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<td>PeopleGIS</td>
<td>147</td>
<td>PeopleGIS is a cloud-based municipal software provider specializing in DPW services. Our Simplicity suites include Water/Sewer/Stormwater/ Streets Asset Management, Work Order Management, CompleteFleet, SnowOps, and more.</td>
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<td>Contact: Jennifer McGarry, 500 W Cummings Pk, Ste 3900, Woburn, MA 01801, tel: 617-625-3608, <a href="mailto:jennifer@peoplegis.com">jennifer@peoplegis.com</a>, <a href="http://www.peoplegis.com">www.peoplegis.com</a></td>
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<td>PICA Corp</td>
<td>434</td>
<td>PICA has been in the watermain condition assessment for more than 20 years and is the pioneer of the highest-resolution condition assessment for water and wastewater mains.</td>
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<td>Contact: Edward Brain, 4909 75th Ave, Eddmonton, AB T6B 2S3, tel: 514-703-9009, <a href="mailto:ebrain@picacorp.com">ebrain@picacorp.com</a>, <a href="http://www.picacorp.com">www.picacorp.com</a></td>
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<td>POND Technical</td>
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<td>POND Technical has been providing water and waste water treatment solutions in New England since 1962, with world class instrumentation.</td>
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<td>Contact: Bob Osnoe, 100 Sebethe Dr, Cromwell, CT 06416, tel: 860-316-2570, <a href="mailto:rosnoe@pondtechnical.com">rosnoe@pondtechnical.com</a>, <a href="http://www.pondtechnical.com">www.pondtechnical.com</a></td>
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<td>Pribusin, Inc. / JWB Co.</td>
<td>422-425 &amp; 430-433</td>
<td>Pribusin offers unique and unsurpassed telemetry products for the water and wastewater industry.</td>
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<tr>
<td>Contact: James Birkenberger, JWB Company, 65 August Ave, Wolcott, CT 06716. Tel: (203)879-6959, <a href="mailto:jamie@jwbcompany.net">jamie@jwbcompany.net</a>, <a href="http://www.jwbcompany.net">www.jwbcompany.net</a>, Rep: JWB Company</td>
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<td>PRIMEX Controls</td>
<td>188</td>
<td>National 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.</td>
<td></td>
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<td>Contact: Dylan Magers, 22650 County Hwy 6, Detroit Lakes, MN 56501, tel: 207-998-8100, <a href="mailto:dylan.harmonec@gmail.com">dylan.harmonec@gmail.com</a>, <a href="http://www.primexcontrols.com">www.primexcontrols.com</a></td>
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<td>Contact: John Benham, PO Box 269, Franklin, NH 03235, tel: 603-934-7100, <a href="mailto:jbenham@pumpsystemsinc.com">jbenham@pumpsystemsinc.com</a>, <a href="http://www.PumpSystemsInc.com">www.PumpSystemsInc.com</a></td>
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<td>Purafil, Inc.</td>
<td>401-406</td>
<td>Purafil is the leading global supplier of gas phase air filtration media and systems that protect people, processes, and environments.</td>
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<tr>
<td>Contact: Marketing, 2654 Weaver Way, Doraville, GA 30340 tel: 770-662-8545, <a href="mailto:marketing@purafil.com">marketing@purafil.com</a>, Rep: F.R. Mahony &amp; Associates, Inc.</td>
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<tr>
<td>PVP</td>
<td>446</td>
<td>Penn Valley Pump Company, Inc. Since 1980 the Double Disk positive displacement pump has been a leader for municipal and industrial sludge, scum and septage.</td>
<td></td>
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<tr>
<td>Contact: Bob Mack, 1 DeAngelo Dr, Bedford, MA 01730, tel: 781-275-1001, <a href="mailto:bob@ne3inc.com">bob@ne3inc.com</a>, <a href="http://www.ne3inc.com">www.ne3inc.com</a>, Rep: NE3</td>
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<tr>
<td>R.H. White Construction Co., Inc. (Event Sponsor)</td>
<td>105</td>
<td>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.</td>
<td></td>
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<tr>
<td>Contact: Christopher Devaney, 41 Central St, Auburn, MA 01501, tel: 508-832-3295, <a href="mailto:cdevaney@rhwhte.com">cdevaney@rhwhte.com</a>, <a href="http://www.rhwhte.com">www.rhwhte.com</a></td>
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<tr>
<td>RACO Manufacturing &amp; Engineering / JWB Co.</td>
<td>422-425 &amp; 430-433</td>
<td>Raco Manufacturing &amp; Engineering Co., offers a complete line of systems for remote site monitoring that include phone line, Ethernet/OPC, cellular/wireless and internet based.</td>
<td></td>
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<tr>
<td>Contact: James Birkenberger, JWB Company, 65 August Ave, Wolcott, CT 06716. Tel: (203)879-6959, <a href="mailto:jamie@jwbcompany.net">jamie@jwbcompany.net</a>, <a href="http://www.jwbcompany.net">www.jwbcompany.net</a>, Rep: JWB Company</td>
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<td>Rain for Rent</td>
<td>457</td>
<td>Rain for Rent is a leading provider of temporary liquid handling solutions including pumps, tanks, filtration and spill containment.</td>
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<td>Contact: Greg Pry, 28 Trolley Crossing, Charlton, MA 01507, tel: 508-987-0042, <a href="mailto:gpray@rainforrent.com">gpray@rainforrent.com</a>, <a href="http://www.rainforrent.com">www.rainforrent.com</a></td>
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<tr>
<td>Raven Lining Systems</td>
<td>170</td>
<td>Raven Lining Systems is an industry leader in high build 100% solids epoxy linings for the protection and rehabilitation of wastewater, water and storm-water infrastructure for 30 years.</td>
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<tr>
<td>Contact: Jeff Croll, 686 S Adams St, Kansas City, KS 66105, tel: 918-899-0996, <a href="mailto:crollj@ravellining.com">crollj@ravellining.com</a>, <a href="http://www.ravellining.com">www.ravellining.com</a></td>
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<tr>
<td>RCAP Solutions, Inc.</td>
<td>178</td>
<td>RCAP Solutions is a non-profit organization that works with rural communities and their drinking water/wastewater systems to promote public, environmental, and economic health.</td>
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<td>Contact: Jim Starbarg, 191 May St, Worcester, MA 01602, tel: 978-502-0227, <a href="mailto:jstarbarg@rcapsolutions.org">jstarbarg@rcapsolutions.org</a>, <a href="http://www.rcapsolutions.org">www.rcapsolutions.org</a></td>
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<td>Redzone's robots are multi-sensor autonomous robots providing 180 degree visual inspection, laser pipe profiling for wear and material build-up, sonar for submerged debris build-up.</td>
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<tr>
<td>Contact: Bob Mack, 1 DeAngelo Dr, Bedford, MA 01730, tel: 781-275-1001, <a href="mailto:bob@ne3inc.com">bob@ne3inc.com</a>, <a href="http://www.ne3inc.com">www.ne3inc.com</a>, Rep: NE3</td>
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<td>REXA Linear and Rotary Actuators can provide reliable and accurate operation over a long period of time with virtually no maintenance costs.</td>
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<tr>
<td>Contact: Jim Deluca, 154 West Grove St Unit D, Middleboro, MA 02346, tel: 508-947-5777, <a href="mailto:jdeluca@aquasolutionsinc.net">jdeluca@aquasolutionsinc.net</a>, <a href="http://www.aquasolutionsinc.net">www.aquasolutionsinc.net</a>, Rep: Aqua Solutions, Inc.</td>
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<td>RMI &amp; Shincci-USA (Event Sponsor)</td>
<td>211</td>
<td>RMI is a leader in organic residuals management throughout the northeast. RMI annually recycles over 300,000 yards of residuals and has an established reputation for high quality products and excellent services for municipal wastewater treatment facilities</td>
<td></td>
</tr>
<tr>
<td>Contact: Shelagh Connelly, 1171 NH RT 175, Holderness, NH 03245, tel: 603-536-8900, <a href="mailto:shelagh.connelly@mirecycles.com">shelagh.connelly@mirecycles.com</a>, <a href="http://www.mirecycles.com">www.mirecycles.com</a></td>
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<tr>
<td>Company Name</td>
<td>Booth(s):</td>
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<tr>
<td>Rockwell Automation</td>
<td>207</td>
<td>Michael Quirk, 100 Nickerson Rd, Marlboro, MA 01752, tel: 508-817-6346, <a href="mailto:mquirk@ra.rockwell.com">mquirk@ra.rockwell.com</a>, <a href="http://www.rockwellautomation.com">www.rockwellautomation.com</a></td>
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<tr>
<td>RV-Tideflex</td>
<td>447</td>
<td>Bob Mack, 1 DeAngelo Dr, Bedford, MA 01730, tel: 781-275-1001, <a href="mailto:bob@ne3inc.com">bob@ne3inc.com</a>, <a href="http://www.ne3inc.com">www.ne3inc.com</a>, Rep: NE3</td>
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<td>RW Gate</td>
<td>444, 452, 453, 460, 461, 469</td>
<td>John Swanson, 2616 S. 3rd St, St. Louis, MO, tel 314-720-1706, <a href="mailto:jswanson@shelterworks.com">jswanson@shelterworks.com</a>, Rep: F.R. Mahony &amp; Associates, Inc.</td>
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<td>Sanitaire/Xylem</td>
<td>153</td>
<td>Peter Kibble, c/o The Maher Corporation 192 Pleasant St, Rockland, MA 02370, tel: 781-421-2600, <a href="mailto:pkibble@themahercorp.com">pkibble@themahercorp.com</a>, Rep: The Maher Corporation</td>
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<td>S.A.V. &amp; Sons</td>
<td>416</td>
<td>Tim Terry, 1 Chemical Plant Rd, Riceboro, GA 31323, tel: 912-884-3366, <a href="mailto:tttery@polydyneinc.com">tttery@polydyneinc.com</a>, <a href="http://www.us.snf.com">www.us.snf.com</a></td>
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<td>Scavin equipment Co LLC (Event Sponsor)</td>
<td>112</td>
<td>Alan Hopkins - <a href="mailto:ahopkins@bauhopkins.com">ahopkins@bauhopkins.com</a> or Bob Hopkins - <a href="mailto:bhopkins@bauhopkins.com">bhopkins@bauhopkins.com</a>, tel: 508-699-9300, <a href="http://www.bauhopkins.com">www.bauhopkins.com</a> Rep: BAU/Hopkins</td>
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<td>Schulz Group, Power Systems by Timken</td>
<td>189</td>
<td>Dan Deyeso, 30 Gando Dr, New Haven, CT 06513, tel: 203-562-5811, <a href="mailto:dan.deyeso@schulzelectric.com">dan.deyeso@schulzelectric.com</a>, <a href="http://www.schulzgroupusa.com">www.schulzgroupusa.com</a></td>
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<td>Sealing Systems Inc.</td>
<td>144</td>
<td>Paul Wright, 9530 County Rd 19 Ste 1, Loretto, MN 55357, tel: 763-478-2057, <a href="mailto:paulw@ssisealingsystems.com">paulw@ssisealingsystems.com</a>, <a href="http://www.ssisealingsystems.com">www.ssisealingsystems.com</a></td>
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<td>Seepeck</td>
<td>444, 452, 453, 460, 461, 469</td>
<td>John Swanson, 2616 S. 3rd St, St. Louis, MO, tel 314-720-1706, <a href="mailto:jswanson@shelterworks.com">jswanson@shelterworks.com</a>, Rep: F.R. Mahony &amp; Associates, Inc.</td>
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<td>SHELETON Electric Power Systems</td>
<td></td>
<td>Peter Kibble, c/o The Maher Corporation 192 Pleasant St, Rockland, MA 02370, tel: 781-421-2600, <a href="mailto:pkibble@themahercorp.com">pkibble@themahercorp.com</a>, Rep: The Maher Corporation</td>
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Spire Metering Technology  Booth(s): 206
Manufacturer of ultrasonic and electromagnetic flow and energy metering instrumentation for municipalities, institutions and industry. Local presence, global reach.
Contact: John Downey, 249 Cedar Hill St, Marlborough, MA 01752, tel: 781-690-0094, john.downey@spireMT.com, www.spireMT.com

Sprayroq, Inc.  Booth(s): 185
Fast-curing structural and chemical-resistant polyurethane coatings for rehabilitation and protection of underground infrastructure
Contact: Chip Johnson, 4766 Grantswood Rd Ste 150, Irondale, AL 35210, tel: 205-957-0020, cjohnson@sprayroq.com, www.sprayroq.com

SPX Flow Inc. - Lightnin Mixers  Booth(s): 401-406
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.

Stacey DePasquale Engineering, Inc. (Gold Sponsor)  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

StormTrap  Booth(s): 145
StormTrap offers solutions for managing runoff, protecting waterways and improving the use of property. It is committed to providing cost-effective, customized water management solutions to engineers, owners, and municipalities across North America and abroad.
Contact: Patrick Gordon, 1287 Windham Pkwy, Romeoville, IL 60446, tel: 815-941-4549, pgordon@stormtrap.com, www.stormtrap.com

SUEZ (Gold Sponsor)  Booth(s): 200, 201
SUEZ North America operates across all 50 states and Canada with 2,825 employees dedicated to providing sustainable and smart water resources management.
Contact: Ghiiliane Soto, 461 From Rd #400, Paramus, NJ 07652, tel: 551-267-4517, ghiiliane.soto@suez.com, www.suez-na.com

Suez Wastewater Treatment  Booth(s): 444, 452, 453, 460, 461, 469
With Suez Wastewater Treatment we can offer a leader in end-to-end complete systems for water and wastewater treatment.
Contact: Jim Deluca, 154 West Grove St Unit D, Middleboro, MA 02346, tel: 508-947-5777, jdeluca@aquasolutionsinc.net, www.aquasolutionsinc.net, Rep: Aqua Solutions, Inc.

SULLIVAN ASSOCIATES/RITEC ENVIRONMENTAL  Booth(s): 458
CHEMICAL FEED INSTRUMENTATION AND PROCESS AUTOMATION
Contact: PETE WILLIAMS, 29 Lincoln St, East Boothbay, ME 04544, tel: 207-633-3111, pete.williams@ritec.com,

Sunbelt Rentals - Pump Solutions  Booth(s): E
Sunbelt Pump Solutions delivers full turnkey services, including project design, setup, maintenance, and engineered solutions.
Contact: John LaCortiglia, 800 Hartford Turnpike Rte 20, Shrewsbury, MA 01545, tel: 860-595-7929, john.lacortiglia@sunbeltrentals.com, www.sunbeltrentals.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.
Contact: Pat Rimkoski, 435 Williams Court Ste 100, Baltimore, MD 21220, tel: 860-483-0160, primkoski@synagro.com, www.synagro.com

Technology Sales Associates  Booth(s): 426-429 & 501-504
Manufacturer’s representative of Environmental Process technologies throughout the 6 New England states
Contact: Michael Caso, 402 Amherst St Ste 301, Nashua, NH 03063, tel: 508-878-7641, mcaso@techsalesne.com, www.techsalesne.com

Ted Berry Co., A Vortex Company  Booth(s): 113, 115
As part of the Vortex Companies, Ted Berry now features the unique combination of local expertise, trusted relationships, and a full suite of trenchless solutions to take on nearly every aspect of your rehabilitation project.
Contact: Connor Collier, 18150 Imperial Valley Dr, Houston, TX 77060, collier@vortexcompanies.com,

Teledyne ISCO  Booth(s): 439
Teledyne ISCO is a leading manufacturer/supplier of wastewater samplers and flow meters. The LASER flow sensor is a non-contact sensor retrievable from street level.
Contact: Bob Makk, 1 DeAngelo Dr, Bedford, MA 01730, tel: 781-275-1001, bobb@ne3inc.com, www.ne3inc.com, Rep: NE3

TenCate  Booth(s): 212
TenCate, an international manufacturer of engineered textiles, manufacturers Geotube® containers for building marine structures, containment and dewatering residuals, sediments and sludge.
Contact: Teresa Meeks, 3680 Mt Olive Rd, Commerce, GA 30529, tel: 706-693-1855, t.meeks@tencatego.com,

The MAHER Corporation (Gold Sponsor)  Booth(s): 152-158 & 181
Celebrating 50 years! Please visit the following companies in Booths 152-158 & 181. Boerger, ECS, Xylem, Vapex, Brentwood, Waco, Biorem, Watson Marlow, Spirac, Trojan, Valmet, GEA Westfalia, Lakeside.
Contact: Peter Kibble, c/o The Maher Corporation 192 Pleasant St, Rockland, MA 02370, tel: 781-421-2600, pkibble@themahercorp.com

Thompson Pipe Group  Booth(s): 203
Contact: Thomas Jankowski, 1003 MacArthur Blvd, Grand Prairie, TX 75050, tel: 469-313-2560, tjankowski@thompsonpipegroup.com, www.thompsonpipegroup.com

Toshiba / JWB Co.  Booth(s): 422-425 & 430-433
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 Ave, Wolcott, CT 06716. Tel: (203)879-6959, jamie@jwbcompany.net, www.jwbcompany.net, Rep: JWB Company

Trinova  Booth(s): C
Trinova works with clients from a broad spectrum of industries to provide solutions to all your instrumentation needs.
Contact: Kevin Bichoping, 2 McCrea Hill Rd, Ballston Spa, NY 12020, tel: 518-490-9959, kevin.bichoping@trinovainc.com, www.trinovainc.com

TrojanUV  Booth(s): 157
TrojanUV designs and manufactures UV disinfection systems for municipal wastewater and drinking water. We are the largest UV water treatment company in the world.
Contact: Peter Kibble, c/o The Maher Corporation 192 Pleasant St, Rockland, MA 02370, tel: 781-421-2600, pkibble@themahercorp.com, Rep: The Maher Corporation

Truax Corporation  Booth(s): 143
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.
Contact: Lloyd Truax, PO Box 2186, Plainville, MA 02762, tel: 508-316-0979, lloyd@truaxcorporation.com, www.truaxcorporation.com
### Trumbull
- **Booth(s):** 194
- Trumbull is a manufacturer of water works product. Including waterworks tools, valve operating accessories, chainwheels, valve position indicators, miter gears, pipe supports, composite manhole frames and covers, mud valves, hydrostatic tank PrVs, polyprop, zinc anode caps and other products.
- **Contact:** Vic Dasbach, 3850 Hendricks Rd, Youngstown, OH 44515, tel: 330-307-1217, vdasbach@trumbull.com

### United Concrete - Building Group
- **Booth(s):** 141
- Precast concrete buildings; Pump control buildings; Generator Buildings; Chemical storage Buildings; Complete factory built sewer and domestic water pump stations
- **Contact:** Jonathan Duffy, 173 Church St, Yalesville, CT 06492, tel: 203-678-0587, jduffy@unitedconcrete.com, www.unitedconcrete.com

### United Rentals Fluid Solutions
- **Booth(s):** 215
- Contact: Monty Hart, 102 Old Worcester Rd, Oxford, MA 01540, mhart1@usr.com

### USABlueBook
- **Booth(s):** 459
- USABlueBook is the water and wastewater industry’s leading source for MRO equipment and supplies. Over 64,000 Items • Ultra-Fast Delivery • Personal Customer Service • Expert Technical Support • 100% Satisfaction Guarantee. Request your FREE catalog
- **Contact:** Joe Joubert, PO Box 9005, Gurnee, IL 60031, tel: 800-548-1234, jjoubert@usabluuebook.com, www.usabluuebook.com

### USP Technologies
- **Booth(s):** 190
- USP Technologies (formerly US Peroxide) has been an industry leader of full service odor and corrosion control programs for over 20 years.
- **Contact:** Inken Mello, 1375 Peachtree St NE Ste 300N, Atlanta, GA 30309, tel: 858-245-7883, mgibbs@usptechnologies.com, www.usptechnologies.com

### Valmet
- **Booth(s):** 158
- Valmet is a leading global developer and supplier of innovative technologies. A world leader in automation in the area of sludge solids measurements and control.
- **Contact:** Peter Kibble, c/o The Maher Corporation 192 Pleasant St, Rockland, MA 02370, tel: 781-421-2600, pkibble@themahercorp.com, Rep: The Maher Corporation

### Vapex
- **Booth(s):** 153
- Vapex™ Radical Technology remediate FOG, treats odors and mitigates MIC. Vapex units are small, energy & cost efficient and highly effective.
- **Contact:** Peter Kibble, c/o The Maher Corporation 192 Pleasant St, Rockland, MA 02370, tel: 781-421-2600, pkibble@themahercorp.com, Rep: The Maher Corporation

### Veolia Water Technologies (dba Kruger)
- **Booth(s):** 401-406
- Kruger, Veolia’s US Municipal Solutions, offers innovative, efficient & compact solutions including clarification, separation, biosolids & biological solutions with low installation costs.
- **Contact:** Tabitha Atkinson, 4001 Weston Pkwy, Cary, NC 27513, tel: 919-677-8310, usmunicipal@veolia.com, Rep: F.R. Mahoney & Associates, Inc.

### Verder / BAU Hopkins
- **Booth(s):** 422-425 & 430-433
- Peristaltic Hose & Tube Pumps. The unique design of Verder Peristaltic Pumps make them ideally suited to a wide range of application areas.
- **Contact:** Alan Hopkins - ahopkins@bauhopkins.com or Bob Hopkins - bhopkins@bauhopkins.com, tel: 508-699-9300, www.bauhopkins.com, Rep: BAU Hopkins

### Victaulic
- **Booth(s):** 208
- Victaulic is the leading producer of mechanical pipe joining solutions. We build technologies and provide engineering services that address the most complex piping challenges faced by engineers, site owners, contractors, and distributors.
- **Contact:** marc shaffer, 4901 Kesslersville Rd, Easton, PA 18040, tel: 781-254-4192, marc.shaffer@victaulic.com, www.victaulic.com

### VIR Proteus
- **Booth(s):** 202
- We are North America’s official distributor for Proteus sewer inspection equipment, parts and accessories.
- **Contact:** Chase Dehne, 12600 Newburgh Rd, Livonia, MI 48150, tel: 248-921-9447, chase@virproteus.com, www.visualimagingresources.com

### Waco
- **Booth(s):** 154
- Flow slide control gate, weir gates and tilting weirs, stop gates, stop logs, flap gates, and telescopic valves. Static barscreens, screen gates, and debris baskets.
- **Contact:** Peter Kibble, c/o The Maher Corporation 192 Pleasant St, Rockland, MA 02370, tel: 781-421-2600, pkibble@themahercorp.com, Rep: The Maher Corporation

### Walker Process Equipment - Division of McNish Corporation
- **Booth(s):** 401-406
- Since 1946 Walker Process has been solely dedicated to designing and manufacturing equipment for the Water and Wastewater Industry in Aurora, IL.
- **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):** 475-477
- Portsmouth, NH. Serving the Water and Wastewater industry since 1985. Representing Vaughan, Huber Technology, Andritz, Wangen, Velodyne, CMI, BlueNGreen.
- **Contact:** Henry Russell, PO Box 308, Portsmouth, NH 03802, tel: 603-498-2384, henry@walkerwellington.com

### Water Analytics
- **Booth(s):** 205
- US Manufacturer of Controllers and Sensors for water quality monitoring and process control. Key areas of interest are Water and Process Water. Primary parameters are pH, ORP, Conductivity, Dissolved Oxygen, Flow and FOG monitoring.
- **Contact:** Jeffrey Aghjayan, 100 School St, Andover, MA 01810, tel: 978-749-9949 x0704, jaghjayan@wateranalytics.net, www.wateranalytics.net

### Watson Marlow
- **Booth(s):** 156
- Watson Marlow is the world’s largest peristaltic pump company with tubing and hose pumps that provide precise flow and control for chemical metering and sludge applications.
- **Contact:** Peter Kibble, c/o The Maher Corporation 192 Pleasant St, Rockland, MA 02370, tel: 781-421-2600, pkibble@themahercorp.com, Rep: The Maher Corporation

### WATTs (Event Sponsor)
- **Booth(s):** D
- For over 140 years, we have been committed to improving the comfort, safety, and quality of life for people around the world through our expertise in water technologies.
- **Contact:** Ralph Guevara, 815 Chestnut St, North Andover, MA 01845, tel: 978-689-6044, ralph.guevara@wattswater.com, www.wattswater.com

### Wescor Associates, Inc.
- **Booth(s):** 410-413 & 473-474 & 481-482 & 489-490
- **Contact:** Bill Montanaro, Jr., PO Box 370, Wrentham, MA 02093, tel: 508-384-8921 x4, billjr@wescor1.net, www.wescor1.net

### Westech Engineering Inc.
- **Booth(s):** 175
- Westech Engineering, Inc. is an employee-owned, global company with more than 45 years of experience in municipal water and wastewater treatment.
- **Contact:** Matt Williams, 3665 W. Temple, Salt Lake City, UT 84115, 801-290-1509, mwilliams@westech-inc.com, Rep: David F. Sullivan & Assoc., Inc.

### WhiteWater
- **Booth(s):** 106
- Currently celebrating our 40th anniversary, WhiteWater specializes in operating, managing, and maintaining water and wastewater systems to exacting standards of quality and performance.
- **Contact:** Russell Tierney, 12600 Newburgh Rd, Livonia, MI 48150, tel: 248-921-9447, chase@virproteus.com, www.visualimagingresources.com
Williamson Pump & Motor Booth(s): 184-188
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.
Contact: Russ Clark, 25 Griffin Way, Chelsea, MA 02150, tel: 617-884-9200, russc@weco-group.com

WILCO Booth(s): 444, 452, 453, 460, 461, 469
Wilo USA offers durable submersible pumps for portable, wet pit, and dry well installation, along with a full lineup of energy efficient submersible mixers and internal recycle pumps.
Contact: Jim Deluca, 154 West Grove St Unit D, Middleboro, MA 02346, tel: 508-947-5777, jdeluca@aquasolutionsinc.net, www.aquasolutionsinc.net, Rep: Aqua Solutions, Inc.

Worcester Polytechnic Institute Booth(s): 409
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: Lisanne Hann, Corporate and Professional Education, 100 Institute Rd, Worcester, MA 01609, tel: 508-831-6594, lhann@wpi.edu, www.wpi.edu/academics/online

Xylem Dewatering Solutions Inc. - Flygt Pumps Booth(s): 148
Flygt - a xylem brand, is the technological leader in wastewater market, the originator of the heavy duty electrical submersible pump.

Xylem Dewatering Solutions Inc. - Godwin Pumps Booth(s): 216
Godwin, a xylem brand, maintains a fleet of over 20,000 portable rental pumps and 3,200 pieces of related equipment for dewatering use.

YSI Booth(s): 440
YSI process monitoring system provides continuous feedback, is SCADA compatible, Sensors include: DO, pH, ORP, Phosphorus, Nitrate, Ammonium, TSS, Turbidity and many more.
Contact: Bob Mack, 1 DeAngelo Dr, Bedford, MA 01730, tel: 781-275-1001, bob@ne3inc.com, www.ne3inc.com, Rep: NE3
### Laboratory Services and Supplies

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### Stormwater Detention, Retention, Conveyance & Treatment

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