It’s prime time.

New England Water Environment Association Presents:
NEWEA 2016 Annual Conference & Exhibit

January 24–27 | Boston Marriott Copley Place | Boston, MA
## Miscellaneous Events and Committee Meetings

### Sunday, January 24, 2016

<table>
<thead>
<tr>
<th>Event</th>
<th>Location</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Committee Chair Orientation</td>
<td>Salon A/B</td>
<td>10:30 AM – Noon</td>
</tr>
<tr>
<td>Executive Committee</td>
<td>Salon E</td>
<td>Noon – 3:00 PM</td>
</tr>
</tbody>
</table>

### Monday, January 25, 2016

<table>
<thead>
<tr>
<th>Event</th>
<th>Location</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Awards Committee</td>
<td>Orleans</td>
<td>8:30 – 10:00 AM</td>
</tr>
<tr>
<td>Plant Operations Committee</td>
<td>Falmouth</td>
<td>9:00 – 11:00 AM</td>
</tr>
<tr>
<td>Operations Challenge Committee</td>
<td>MIT</td>
<td>9:30 – 10:30 AM</td>
</tr>
<tr>
<td>CSO/Wet Weather Committee</td>
<td>Champions</td>
<td>Noon – 1:00 PM</td>
</tr>
<tr>
<td>Industrial Wastewater Committee</td>
<td>Nantucket</td>
<td>Noon – 1:00 PM</td>
</tr>
<tr>
<td>Residuals Management Committee</td>
<td>Champions</td>
<td>Noon – 1:00 PM</td>
</tr>
<tr>
<td>Stormwater Committee</td>
<td>Berkeley</td>
<td>Noon – 1:00 PM</td>
</tr>
<tr>
<td>Utility Management Committee</td>
<td>Falmouth</td>
<td>Noon – 1:00 PM</td>
</tr>
<tr>
<td>Website Committee</td>
<td>Champions</td>
<td>Noon – 1:00 PM</td>
</tr>
<tr>
<td>Small Community Committee</td>
<td>Top of the Hub</td>
<td>12:30 PM</td>
</tr>
<tr>
<td>Collection Systems Certification Committee</td>
<td>Orleans</td>
<td>2:00 – 3:30 PM</td>
</tr>
<tr>
<td>Information Technology &amp; Automation Committee</td>
<td>MIT</td>
<td>2:00 – 3:00 PM</td>
</tr>
<tr>
<td>State Association Leadership</td>
<td>Clarendon</td>
<td>2:00 – 4:00 PM</td>
</tr>
<tr>
<td>Volunteer Committee Fair</td>
<td>Salon E</td>
<td>2:30 – 3:30 PM</td>
</tr>
<tr>
<td>Government Affairs Committee</td>
<td>Falmouth</td>
<td>3:30 PM</td>
</tr>
<tr>
<td>Sustainability Committee</td>
<td>Champions</td>
<td>4:30 – 6:00 PM</td>
</tr>
</tbody>
</table>

### Tuesday, January 26, 2016

<table>
<thead>
<tr>
<th>Event</th>
<th>Location</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Journal Committee</td>
<td>Orleans</td>
<td>8:00 – 9:00 AM</td>
</tr>
<tr>
<td>Volunteer Committee Fair</td>
<td>Salon E</td>
<td>9:30 – 10:30 AM</td>
</tr>
<tr>
<td>Laboratory Practices Committee</td>
<td>Champions</td>
<td>11:00 – 1:00 PM</td>
</tr>
<tr>
<td>Asset Management Committee</td>
<td>TBD</td>
<td>Noon – 1:00 PM</td>
</tr>
<tr>
<td>Energy Committee</td>
<td>Falmouth</td>
<td>Noon – 1:00 PM</td>
</tr>
<tr>
<td>Water Reuse Committee</td>
<td>Legal Sea Foods</td>
<td>Noon</td>
</tr>
<tr>
<td>Safety Committee</td>
<td>Champions</td>
<td>Noon – 1:15 PM</td>
</tr>
<tr>
<td>Collection Systems Committee</td>
<td>Hyannis</td>
<td>Noon – 1:30 PM</td>
</tr>
<tr>
<td>Membership Committee</td>
<td>Orleans</td>
<td>2:00 – 3:00 PM</td>
</tr>
<tr>
<td>Microconstituents Committee</td>
<td>Nantucket</td>
<td>2:00 – 3:00 PM</td>
</tr>
<tr>
<td>Public Education Committee</td>
<td>Champions</td>
<td>4:00 – 5:00 PM</td>
</tr>
<tr>
<td>NEWEA/NEWWA/NEAPWA Leadership</td>
<td>Harvard</td>
<td>2:00 – 3:00 PM</td>
</tr>
</tbody>
</table>

### Wednesday, January 27, 2016

<table>
<thead>
<tr>
<th>Event</th>
<th>Location</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>WERF Sponsors Breakfast (by Invitation)</td>
<td>Vineyard</td>
<td>7:30 AM</td>
</tr>
<tr>
<td>Photo Ready Room</td>
<td>Orleans</td>
<td>9:00 AM</td>
</tr>
<tr>
<td>Water Utility Council Committee</td>
<td>Nantucket</td>
<td>9:30 – 11:00 AM</td>
</tr>
<tr>
<td>Award Ceremony &amp; Lunch</td>
<td>Salon E</td>
<td>11:00 AM</td>
</tr>
<tr>
<td>Speaker Breakfast/Ready Room (M, T, W)</td>
<td>Hyannis</td>
<td>7:30 AM</td>
</tr>
</tbody>
</table>
## Schedule-at-a-Glance

### Sunday, Jan. 24
- **NEW COMMITTEE CHAIR ORIENTATION—SALON A/B**
- **REGISTRATION—4TH FLOOR**
- **EXHIBIT HALL SET-UP**
- **EXECUTIVE COMMITTEE MEETING—SALON E**

### Monday, Jan. 25
- **REGISTRATION—4TH FLOOR**
- **SPEAKERS’ BREAKFAST**
- **SSSS SHOVELERS’ LUNCH (INVITE)**
- **YOUNG PROFESSIONALS OUTREACH**
- **EXHIBIT HALL RECEPTION 3RD FLOOR**
- **PROFESSIONAL POSTER BOARD DISPLAYS**
- **CONTINENTAL BREAKFAST**
- **BUSINESS MEETING**
- **OPENING SESSION**
- **TECHNICAL SESSIONS 1 – 5**
  1. Innovative Treatment Technology
  2. Residuals Management
  3. Watershed Management
  4. CSO I
  5. Utility Management
- **TECHNICAL SESSIONS 6 – 11**
  6. On-Site Power Generation
  7. NEWIN
  8. Water for People
  9. Collection Systems I
  10. Plant Operations I
  11. Industrial Wastewater

### Tuesday, Jan. 26
- **SPEAKERS’ BREAKFAST**
- **PRESIDENTS’ BREAKFAST (INVITE)**
- **OPERATOR’S RECEPTION**
- **EXHIBIT HALL RECEPTION 4TH FLOOR**
- **COLLEGE STUDENT POSTER BOARD COMPETITION**
- **3RD & 4TH FLOOR EXHIBIT AREA OPEN**
- **TECHNICAL SESSIONS 12 – 16**
  12. Innovative Solutions
  13. MassDEP II
  14. Water Reuse
  15. Stormwater I
  16. Plant Operations II
- **TECHNICAL SESSIONS 17 – 22**
  17. Regulatory Challenges
  18. Operator Ingenuity
  19. Information Technology & Automation
  20. Collection Systems II
  21. Asset Management I
  22. Energy
- **GRADUATE STUDENT TECHNICAL SESSION**

### Wednesday, Jan. 27
- **SPEAKERS’ BREAKFAST**
- **WERF SUPPORTERS’ BREAKFAST**
- **AWARDS CEREMONY & LUNCH**
- **EXHIBIT AREA BRUNCH**
- **TECHNICAL SESSIONS 23 – 27**
  23. Watershed Nitrogen
  24. Sustainability
  25. Safety
  26. CSO II
  27. Asset Management II
- **TECHNICAL SESSIONS 28 – 30**
  28. Stormwater II
  29. Plant Operations III
  30. Collection Systems III
- **ADJOURN**

### Key
- 3rd floor rooms are Colleges, Universities, and Boston Streets.
- 4th floor rooms are salons and Cape Cod Towns.

### Room Assignments

|--------|-----------|-------|----------|-------|------------|------------|-----------|-------------|-------|--------|-----------|------------|-------|-------------|-------|
Welcome to the 2016 NEWEA Annual Conference. It’s Prime Time!

I invite you to advance our water quality profession and celebrate its importance by participating in all the Annual Conference has to offer. As the region’s premier water quality conference and exhibit, this event is expected to draw some 2,300 professional attendees. This year’s conference includes not only 30 technical sessions, two poster sessions, and 200 plus exhibitors, but also numerous networking opportunities, committee meetings, and social events.

Take a close look at this year’s program; the Program Committee has worked diligently to provide a wide range of topics for the technical sessions. These include industry hot topics such as Innovative Treatment Technologies, On-Site Power Generation, Innovative Solutions to Equipment, and Operational Challenges, Regulatory Challenges, and Watershed Nitrogen Tracking and Accounting.

To get the most out of this Program, I encourage you to explore where you typically may not—visit a Young Professionals event; stop by and visit with an exhibitor you may not know; check out the student poster competition; or visit the committee fair and join a committee.

In keeping with this year’s theme of increasing Public Awareness, on Monday our opening session will feature Keynote speaker George Hawkins from DC Water. George will share his successes on the public awareness/outreach front in the DC metro area. We are further honored that WEF President Paul Bowen will offer his insight on current WEF initiatives and the water quality industry as a whole.

I’d like to recognize the significant efforts of the conference committees, which include Program, Registration, Exhibits, Manufacturer’s Representative, Awards, and Conference Arrangements. I’d also like to acknowledge the NEWEA office staff: Mary Barry, Janice Moran, and Linda Austin for their energy, professionalism, and patience in putting this great event together.

I hope that you take advantage of all the Conference has to offer in the way of technological enrichment, but also that you seize the opportunity to see old friends and make new acquaintances. These are all ways that this event helps us as professionals to better address the challenges of protecting public health, protecting the environment, and providing the foundation for thriving communities and economies.

Have a great event!
Matt Formica
2015 NEWEA President
NEWEA 2015 EXECUTIVE COMMITTEE

President Matthew Formica
President Elect Raymond Willis III
Vice President James Barsanti
Treasurer Frank Occhipinti

Past President (Management Review) Bradley Moore
Secretary Gerald Potamis
Executive Director Mary Barry

WEF Delegate (10/12) Howard Carter
WEF Delegate (10/13) Michael Wilson
WEF Delegate (10/14) Daniel Bisson
WEF Delegate (10/15) Susan Sullivan

Directors
Connecticut Jay Sheehan
Massachusetts Michael Moreau
Rhode Island Michael Spring
Vermont Nathan Lavallee
Maine Peter Goodwin
New Hampshire Frederick McNeill

Communications Council Director Jennifer Lachmayr
Collection Systems/Water Resource Council Virgil Lloyd
Meeting Management Director Meg Tabacsko
Outreach Council Jonathan Kunay
Treatment, Systems Operations, and Management Council Priscilla Bloomfield

NEWEA 2015 COUNCILS

Vice President Council (Ad Hoc Committees)
Information Technology and Automation Committee* John Trofatter
Public Awareness Committee* Clary Coutu
Utility Council Committee* F. Adam Yanulis

Past President Council (Administrative Committees)
Assessment and Development Committee Deborah Mahoney
Awards Committee Charles Applebee
Bylaws Committee Douglas Lee Miller
Committee Member Appreciation Committee Daniel Roop
Nominating Committee Daniel Bisson
Sponsor Committee Glenn Haas

Meeting Management Council
Conference Arrangements Committee Ronald Tiberi
Exhibits Committee Amy Anderson
Manufacturers’ Representative Committee
Program Committee James DeLuca
Registration Committee Jessica Cajigas
Katelyn Biedron

Communications Council
Journal Committee Helen Gordon
Media Relations Committee TBD
Newsletter Committee Geraldine Ciardelli
Website Committee* Robert Musci

Treatment, Systems Operations, and Management Council
Asset Management Committee John Jackman
Energy Committee Thomas Schwartz
Laboratory Practices Committee Mary Lee Santoro
Microconstituents Committee Brian Braginton-Smith
Operations Challenge Committee Michael Burke
Plant Operations Committee Raymond Vermette
Residuals Management Committee Elaine Sistare
Small Community Committee Daniel Ottenheimer
Utility Management Committee Brian Armet

Collection Systems/ Water Resource Council
Collection Systems Certification Committee Gregory Kidd
Collection Systems Committee John Digiacomo
CSO/Wet Weather Issues Committee James Drake
Industrial Wastewater Committee Lisa Andrews
Stormwater Committee Aubrey Strause
Sustainability Committee Elizabeth Watson
Water Reuse Committee Edward Whaley
Watershed Management Committee Philip Forzley

Outreach Council
Government Affairs Committee Peter Grose
Humanitarian Assistance and Grants Committee Tim Vivian
Membership Committee David Archard
Project Delivery Alternatives Committee Michael Curtis
Public Education Committee Elena Proakis Ellis
Safety Committee David Aucoin
Scholarships Committee Nicholas Schwartz
Student Activities Committee Annalisa Onnis-Hayden
Water for People Committee Anastasia Rudenko
Young Professionals Committee Justin Skelly

* Ad hoc
Offering a range of infrastructure solutions for communities in the Northeast

Contact us for more information:
Farzin Kiani, PE
tel +1 617 849 6636
farzin.kiani@veolia.com
veolianorthamerica.com/northeast-municipal-business

MILLIKEN VALVES
PLUG VALVES: ECCENTRIC ½”-72”, CHECK VALVES: SWING, FLEX, SPRING, WAFFER, DUAL DISC, GLOBE. AWWA BUTTERFLY VALVES: 3”-72”

Delta Industrial
2” – 96” CAST & FABRICATED, NON-RISING STEM, BI-DIRECTIONAL, ZERO LEAKAGE AND BUBBLE TIGHT, KNIFE GATES FOR MANUAL AND AUTOMATED SERVICE

AUNSPACH CONTROLS
TORQUE OVERLOAD PROTECTION CREATING RELIABLE, HIGH QUALITY, MECHANICAL OVERTORQUE SOLUTIONS FOR VALVES, ACTUATORS, ETC. FOR THE MUNICIPAL, FLUID HANDLING AND INDUSTRIAL MARKET.

LARAD VALVES
½”-4” QUARTER-TURN PINCH VALVES FOR MANUAL AND AUTOMATED SERVICE. WAFFER & SANITARY TRI-CLAMP FLOW-THRU INSTRUMENT ISOLATORS FOR PRESSURE MEASUREMENT WITH GAUGE, TRANSMITTER OR SWITCH.

A-C VALVES
CAST, FABRICATED & CUSTOM DESIGNED METAL & RESILIENT SEATED KNIFE GATE VALVES, FROM 2” TO 96” & LARGER. WAFFER, BI-DIRECTIONAL, DRIP TIGHT, NON CLOGGING, FULL PORT, AND BONNETED DESIGNS AVAILABLE IN ALL STAINLESS STEEL OR WETTED PARTS ONLY.

WASTOP CHECK VALVES
STAINLESS STEEL, PVC/PE INLINE CHECK VALVES, WAPRO ACCESS CHAMBER. WAREG FLOW REGULATORS. WABACK VALVE & MINI.

CRISPIN
AWWA K-FLO BUTTERFLY VALVES: 3-168”, AIR AND VACUUM VALVES: CLEAN WATER, WASTE WATER & X SERIES CHEMICAL & SEWAGE VALVES. CHECK VALVES: FOOT, GLOBE, RUBBER FLAPPER, SWING, TILTED, SURGE, WAFFER.

PLASTI-FAB
COMPOSITE FIBERGLASS REINFORCED PLASTIC PRODUCTS PROVIDE OPTIMUM CORROSION RESISTANCE. WIDE RANGE OF FUNCTIONAL DESIGNS AND CUSTOM SIZES. QUALITY (FRP) ENGINEERED FLUMES, GATES, STOP LOGS, MANHOLES, SKIMMERS. GAGES. SHELTERS.

WATERMAN INDUSTRIES
FLUID CONTROL EQUIPMENT. DRAINAGE & SELF REGULATING TIDEGATES, CAST & FABRICATED SLUICE GATES. ALUMINUM & SS SLIDE GATES & STOP LOGS. RADIAL & LEVEL CONTROL GATES. BUTTERFLY, MUD & TELESCOPING VALVES.

J & S VALVES
RESILIENT & METAL SEATED SOLID WEDGE AWWA GATE VALVES, WAFFER & LUG PATTERN INDUSTRIAL/COMMERCIAL BUTTERFLY VALVES.

ONXY VALVE
PINCH VALVES: MANUAL, PNEUMATIC & ELECTRIC. EXPANSION JOINTS, STAINLESS STEEL FLEXIBLE CONNECTORS, PRESSURE SENSORS & ISOLATORS. INLINE AND DUCKBILL CHECK VALVES.

We Service What We Sell

MILLIKEN VALVES
PLUG VALVES: ECCENTRIC ½”-72”, CHECK VALVES: SWING, FLEX, SPRING, WAFFER, DUAL DISC, GLOBE. AWWA BUTTERFLY VALVES: 3”-72”

Delta Industrial
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AUNSPACH CONTROLS
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A-C VALVES
CAST, FABRICATED & CUSTOM DESIGNED METAL & RESILIENT SEATED KNIFE GATE VALVES, FROM 2” TO 96” & LARGER. WAFFER, BI-DIRECTIONAL, DRIP TIGHT, NON CLOGGING, FULL PORT, AND BONNETED DESIGNS AVAILABLE IN ALL STAINLESS STEEL OR WETTED PARTS ONLY.

WASTOP CHECK VALVES
STAINLESS STEEL, PVC/PE INLINE CHECK VALVES, WAPRO ACCESS CHAMBER. WAREG FLOW REGULATORS. WABACK VALVE & MINI.

CRISPIN
AWWA K-FLO BUTTERFLY VALVES: 3-168”, AIR AND VACUUM VALVES: CLEAN WATER, WASTE WATER & X SERIES CHEMICAL & SEWAGE VALVES. CHECK VALVES: FOOT, GLOBE, RUBBER FLAPPER, SWING, TILTED, SURGE, WAFFER.

PLASTI-FAB
COMPOSITE FIBERGLASS REINFORCED PLASTIC PRODUCTS PROVIDE OPTIMUM CORROSION RESISTANCE. WIDE RANGE OF FUNCTIONAL DESIGNS AND CUSTOM SIZES. QUALITY (FRP) ENGINEERED FLUMES, GATES, STOP LOGS, MANHOLES, SKIMMERS. GAGES. SHELTERS.

WATERMAN INDUSTRIES
FLUID CONTROL EQUIPMENT. DRAINAGE & SELF REGULATING TIDEGATES, CAST & FABRICATED SLUICE GATES. ALUMINUM & SS SLIDE GATES & STOP LOGS. RADIAL & LEVEL CONTROL GATES. BUTTERFLY, MUD & TELESCOPING VALVES.

J & S VALVES
RESILIENT & METAL SEATED SOLID WEDGE AWWA GATE VALVES, WAFFER & LUG PATTERN INDUSTRIAL/COMMERCIAL BUTTERFLY VALVES.

ONXY VALVE
PINCH VALVES: MANUAL, PNEUMATIC & ELECTRIC. EXPANSION JOINTS, STAINLESS STEEL FLEXIBLE CONNECTORS, PRESSURE SENSORS & ISOLATORS. INLINE AND DUCKBILL CHECK VALVES.

We Service What We Sell
Thinking of water in new ways

Sustainable stormwater, wastewater and drinking water solutions all require more collaboration than ever.

Join the dialogue at bc1Water.com

You use water. We recycle it.

Of all the water on Earth, only 2.5% is fresh water, the rest is salty oceans. Rivers and reservoirs make up only 1.2% of all fresh water, the other 98.8% is stored as permafrost and groundwater. Recycling readily accessible surface water is critical to meet the high demand for use by individuals, communities and industry. Learn more about the water quality industry and its role in the water cycle at newea.org
The New England Consortium

The New England Consortium (TNEC) is the region’s model Hazardous Waste Operations and Emergency Response (HAZWOPER) Worker Health and Safety training organization.

Our courses are approved by MA, RI, and CT Boards of Certification of Wastewater Treatment Plants and Drinking Water Supply Facilities.

Customized courses are delivered on-site anywhere in New England or TNEC’s training center in Lowell.

The New England Consortium
600 Suffolk St., Wannalancit, Suite 501, Lowell, MA 01854
Phone: 978.934.3329 F: 978.934.2012
www.uml.edu/tnec

NEWEA&NYWEA Joint Spring Meeting
ENVIRONMENTAL STEWARDSHIP IN THE 21ST CENTURY

Join us June 5 – 8, 2016
Mystic Seaport, CT | Mystic Marriott Hotel & Spa
Announcing the call for presentations and papers
Abstract submission deadline: February 12, 2016

CONNECT WITH US
listen. think. deliver.
Conference Events

Sunday, January 24
Registration (4th Floor) ................................................................. Noon–4:00 PM
Exhibit Hall Set-Up ........................................................................ Noon–6:00 PM
New Committee Chair Orientation (Salon A/B) .......................... 10:30 AM–Noon
Executive Committee Meeting (Salon E) ........................................ Noon–3:00 PM

Monday, January 25
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
NEWEA Annual Business Meeting (Vineyard) ............................ 8:00–8:30 AM
Welcome and Opening Remarks:
Matt Formica, NEWEA President/AECOM
Presentation and vote on 2016 Slate of NEWEA Officers.
See description on page 42
Technical Sessions 1–5 ................................................................. 8:30–10:30 AM
See descriptions beginning on page 14

Exhibit Hall Grand Opening .......................................................... 10:30 AM
Amy Anderson, Exhibits Committee Chair; Matt Formica, NEWEA President
Grand Opening will take place at the main entrances of both the 3rd and 4th floor exhibit areas.

Exhibits (3rd and 4th Floor Exhibit Areas) ................................. 10:30 AM–6:30 PM
Please note that the 3rd and 4th floor exhibit areas are connected by a stairwell in the back of exhibit hall. See page 44 for list of exhibitors.

Opening Session.......................................................................... 11:00 AM
Featured Speaker—George S. Hawkins (see description on page 13)

Monday, January 25 continued
Professional Poster Board Displays/Session (4th Floor) .......... 8:30 AM–4:30 PM
Coordinator: Lauren Hertel, Stantec
Session with authors ..................................................................... 1:30–3:30 PM
Select Society of Sanitary Sludge Shovelers’ Lunch .................. Noon–2:00 PM
by invitation – Charles Tyler, Influent Integrator (Dartmouth/Exeter)
Young Professionals Outreach/Mentoring Program (Yarmouth) .. Noon–1:30 PM
The YP Committee is planning a special lunchtime session for those participating in the Mentoring Day and for all Young Professionals.
Justin Skelly, Tighe & Bond; Dave Archard, RJN Group
Technical Sessions 6–11 ............................................................. 2:00–4:30 PM
See descriptions beginning on page 17
Exhibit Hall Break ....................................................................... 3:00–3:30 PM
Exhibit Hall Reception (3rd Floor Exhibit Area) ......................... 4:30–6:30 PM

Tuesday, January 26
Registration (4th Floor) ..................................................................... 7:00 AM–6:00 PM
Speakers’ Breakfast (Hyannis) ......................................................... 7:30–8:30 AM
Guest Program – see description on page 43 ............................... 7:30 AM–4:00 PM
NEWEA Presidents’ Breakfast (Champions) ............................... 8:00–9:00 AM
by invitation
Exhibits .......................................................................................... 8:00 AM–6:00 PM
3rd and 4th Floor Exhibit Areas
Technical Sessions 12–16 ............................................................ 9:00–11:30 AM
See descriptions beginning on page 20
College Student Poster Board Competition ............................. 9:30 AM–3:30 PM
Coordinator: Annalisa Onnis-Hayden, Northeastern University
Session with authors ..................................................................... 11:00 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
Green Mountain Water Environment Association
Maine Water Environment Association
Massachusetts Water Pollution Control Association
Narragansett Water Pollution Control Association
New Hampshire Water Pollution Control Association
Technical Sessions 17–22 ............................................................ 1:30–4:00 PM
See descriptions beginning on page 23
Graduate Student Technical Session ........................................... 1:30–4:00 PM
Exhibit Hall Break ....................................................................... 2:30–3:00 PM
Exhibit Hall Reception (4th Floor Exhibit Area) ......................... 4:00–6:00 PM
Opening Session

MONDAY, JANUARY 25
11:00 AM
Moderator: Helen Gordon, NEWEA Program Committee, Woodard & Curran

Welcome: Matt Formica, NEWEA President, AECOM
Keynote Speaker: George S. Hawkins, CEO/General Manager, DC Water

George Hawkins is Chief Executive Officer and General Manager of the District of Columbia Water and Sewer Authority (DC Water). DC Water provides drinking water delivery and wastewater collection and treatment for the District of Columbia, and treats wastewater for millions in several Maryland and Virginia suburbs. The Authority operates the world’s largest advanced wastewater treatment plant at Blue Plains. Under Hawkins’ leadership, DC Water has launched a vast 10-year program to improve aging infrastructure and comply with ever more stringent regulatory requirements. DC Water is designing and implementing three massive environmental projects that total in excess of $4 billion. Previously, Hawkins was the first director of the District Department of the Environment (DDOE). Prior, he was executive director of New Jersey Future, and served as executive director of the Stony Brook-Millstone Watershed Association. He held senior positions with the United States Environmental Protection Agency (EPA) and also served Vice President Gore on the National Performance Review.

Hawkins is a member of the Bar in Massachusetts and the District of Columbia. He graduated Summa Cum Laude from Princeton University and Cum Laude from Harvard Law School.

Wednesday, January 27

Registration – 4th Floor ................................................................. 7:30 AM–2:00 PM
Speakers’ Breakfast (Hyannis) .......................................................... 7:30–8:30 AM
Exhibits ........................................................................................... 8:00 AM–1:00 PM
3rd and 4th Floor Exhibit Areas
Technical Sessions 23–27 ............................................................. 8:30–11:00 AM
See descriptions beginning on page 26
Exhibit Hall Break .......................................................................... 9:30–10:00 AM
Mr & Mrs Fish Presentation ............................................................. 9:30 AM & 11:30 AM
The Mystery of the Clam (two performances) 3rd Floor Atrium
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 28–30 ............................................................. 1:00–3:00 PM
See descriptions beginning on page 29
Adjourn ........................................................................................... 3:00 PM
Technical Sessions

Sessions 1–5
Monday
8:30–10:30 AM

Session 1
Hot Topic:
Innovative Treatment Technologies
Moderators:
Chuck Pike, Black & Veatch
Vinta Varghese, CH2M

Suffolk

Novel Deammonification Process for Separate Centrate and Main Plant Nitrogen Removal
Robert Sharp, Manhattan College
Allen Deur, New York City DEP
Wendell Khunjar, Hazen and Sawyer
Kathleen O’Connor, New York State Energy Research and Development Authority

Sustainably Stabilizing EBPR Performance at Meriden, CT with a Side-Stream Biological Sludge Reactor
Nick Tooker, Northeastern University
Paul Dombrowski, Woodward & Curran
April Z. Gu, Northeastern University
Frank Russo, City of Meriden, CT

Proven and Emerging Alternatives for Stringent Phosphorus Limits
Jim Fitzpatrick, Black & Veatch
Mark Steichen, Anjana Kadava, and Kelly Martin, Black & Veatch

Lessons Learned from a Nitritation/Anammox Sequencing Batch Reactor
Eric Staunton, CDM Smith
Michael Aitken, University of North Carolina-Chapel Hill

Session 2
Residuals Management—Comprehensive Residuals Management
Moderators:
Eric Spargimino, CDM Smith
Natalie Sierra, Brown and Caldwell

Salon C/D

New Phosphorus Removal Requirement Tips the Scales—Lessons Learned on Biosolids Management and Odor Control at the Southington CT Treatment Plant
Frederick Mueller, Tighe & Bond
John DeGioia, Town of Southington, CT

Integrated Resource Management for Wastewater, Solid Waste, and Energy in New Bedford
Jason Turgeon, US EPA Region 1
Chris Beling, US EPA

Composting of Mixtures of Sewage Biosolids and Municipal Solid Wastes in a Wastewater Treatment Plant
Mohamed Hamoda, Kuwait University

Challenges in Selecting New Biosolids Treatment & Disposal Equipment for The Mattabassett WPCF, Cromwell, CT
Prashanth Emmanuel, Wright-Pierce

Session 3
Watershed Management—Approaches to Integrated Watershed Management
Moderators:
Becky Weig, CH2M
David Bowen, Wright-Pierce

Provincetown

The Cape Cod 208 Plan Update
Thomas Cambarei, Cape Cod Commission
Scott Michaud, Cape Cod Commission

An Integrated Watershed Approach to Nutrient Management
Matthew Davis, Brown and Caldwell
Jeffrey Herr, Brown and Caldwell

Optimizing Performance of Existing Stormwater Infrastructure through Real Time Control Retrofits—A Minnesota Pilot Study
David Roman, Geosyntec Consultants
Scott Landers, OptiRTC
David Richardson, Geosyntec Consultants

Managing Phosphorus Loads to Pearly Pond
Rebecca Balke, Comprehensive Environmental Inc.
Ben Lundsted, Comprehensive Environmental, Inc.

Removing Gully Brook from the CSO system and restoring it to the MS4 system
Cynthia Baumann, CDM Smith
Joseph Laliberte, CDM Smith
Jason Waterbury, The MDC

Walking the Plank—Lessons Learned Inside a 140-Year-Old Combined Sewer
Michael Sullivan, MWH Global
David VanHoven, MWH Global

The Final Link in MWRA's Long-term CSO Control Plan for Alewife Brook
Deborah Duhamel, Stantec
Jeremy Hall, MWRA
Michael Carroll, Stantec

The Benefits of Sound Planning—How Augusta Maine’s 25-year Adapted CSO Abatement Program Netted Positive Results
Steven Freedman, AECOM
Brian Tarbuck, Greater Augusta Utility District

Session 4
CSO I—Repurposing and Renewal to Extend Existing Wet Weather Assets
Moderators:
James Drake, CDM Smith
Jeff Cantwell, Flow Assessment Services

Salon A/B
Monday 8:30–10:30 AM

Session 5
Utility Management/Managing—Improvements, Assessments and Apps

Moderators:
Fred McNeill, City of Manchester, NH
Jamie Lefkowitz, Opti RTC

Session 6
Technical Sessions 1–5

Making Real Progress in Organizational Improvement: Moving from Study to Results
Seth Garrison, Woodard & Curran
Mark Lowenstine, Polk County Utility District

Managing the Public Outreach, Regulatory, Funding, and Staffing Challenges of Framingham’s Capital Improvements Program
James Barsanti, Town of Framingham, MA
Blake Lukis and Peter Sellers, Town of Framingham, MA

The J100 Standard: A Catalyst for an All-Hazards Vulnerability Assessment in our Dynamic World
Marian Long, Gradient Planning

There Is an App for That! SSO Mobile Application Achieves Better Reporting
Greg Pellerin, Woodard & Curran
Erik Osborn and Rachel Osborn, Woodard & Curran

Monday 2:00–4:30 PM

Session 6
Hot Topic:
On-Site Power Generation

Moderators:
Lauren Hertel, Stantec
Matt Dickson, MGD Process Technology

It’s All About Energy—mdC’s On-Site Power Generation & Energy Conservation Efforts at the Hartford, CT WPCF
Thomas Tyler, The MDC
Jeff Bowers, Rick Peebles, and Mike Zabilansky, The MDC

Keeping Your Cool on a Combined Heat and Power Project
Jonathan Keaney, Brown and Caldwell
Jim Schettler and Nancy Andrews, Brown and Caldwell
James McCaughey, Narragansett Bay Commission

Emergency Generator Compliance at Your Facility
Timothy Kucab, Tighe & Bond

The Road to Net Zero at Wastewater Treatment Plants
Paul Hughes, Electra Therm

Session 7
Specialty—NEWIN—Local Innovation and Piloting for Global Impact

Moderators:
Marcus Gay, Nobus Technical Services
Robert Scherpf, AECOM

New England Water Innovation Network Primer
Karen Golmer, NEWIN

Prevention of Fat, Oil, and Grease Buildup in Collection Systems, Lift Stations, and Grease Interceptors Through Use of a Novel Protein-Based Chemical Formulation
Patrick Antle, Protein Matrix LLC
Peter Rehage and Christian Zeigler, Protein Matrix LLC
Albert Robbat, Tufts University

The Green Keeps Getting Greener—Advanced Biological Nutrient Recovery (ABNR)
Rick Johnson, Clearas Water Recovery

The Nutrient Roadmap
Jane Madden, CDM Smith

Exhibit Hall Break
3:00–3:30 PM
Monday 2:00–4:30 PM

**Technical Sessions 6–11**

**Session 8**
Small Communities/Water for People—Wastewater Around the World

Moderators:
- Robert Robinson, City of Manchester, NH
- David Bedoya, MWH Global

Wellesley

**Session 9**
Collection Systems I—Episode I: The Piping Menace

Moderators:
- John Murphy, Stantec
- Kevin Garvey, CDM Smith

Salon C/D

**Session 10**
Plant Operations I—BNR—from Concept to Implementation, Part 1

Moderators:
- Ben Levesque, Tighe & Bond
- Ed Rushbrook, Process Analysis

Salon A/B

**Session 11**
Industrial Wastewater—from Regulation to Innovation

Moderators:
- Lisa Andrews, Barr Engineering
- Sarah White, UniFirst Corp.

Provincetown

Exhibit Hall Break
3:00–3:30 PM

**Technical Sessions 6–11**

**Session 10**
Real, Affordable Nutrient Removal in Secondary Treatment Plants
Paul LaVigne, Montana DEQ
Grant Weaver, The Water Planet Company

Nutrient Removal at the Manchester, CT WPCF
Christopher Pierce, Wright-Pierce
Michael Emond and Ray Weaver, Town of Manchester, CT
W. Doug Hankins, Wright-Pierce

BNR in a Small Footprint
William McConnell, CDM Smith

How Low Can We Go? Full Scale Pilot Testing of Total Nitrogen Removal Processes
Dan Peterson, Town of Durham, NH
Tim Vadney, Wright-Pierce

Development of Water-effects Ratios (WERs) and Site-Specific Water Quality Criteria (SSC) for Aluminum, Cadmium, and Copper for the Androscoggin River
Patrick Gwinn and John Samuelian, Integral Consulting, Inc.
Elizabeth Rand, Integral Consulting, Inc.

Biosolids Dewatering Modernization at an Industrial Plant—Plate & Frame Press to Centrifuge
Carl Wilcox, Woodard & Curran

Water ReUse for a Commercial Greenhouse
Elizabeth Troop, Fuss & O’Neill

Water ReUse System for an Industrial Discharger
Timothy St. Germain, Fuss & O’Neill

Exhibit Hall Break
3:00–3:30 PM
Tuesday 9:00–11:30 AM

**Session 12**

**Hot Topic:** Innovative Solutions to Equipment and Operational Challenges

*Moderators:* Mary White, MWRA
Andy Morrill, Wright-Pierce

**Suffolk**

**Session 13**

**MassDEP I/I—Implementing Your MassDEP 314 CMR 12.00 I/I Program... by 2017!**

*Moderators:* Mike Bonomo, ADS Environmental Services
Robert Dunn, Stantec

**Salon A/B**

**Session 14**

**Water Reuse—Economics and Sustainability**

Drive Innovation in Wastewater

*Moderators:* Vanessa Borkowski, Stantec
Austin Weidner, Tighe & Bond

**Simmons**

**Session 15**

**Stormwater I—Putting the Horse Before the Cart—Planning Carefully To Get the Most Benefit from a Stormwater Program**

*Moderators:* Angela Blanchette, Town of Scarborough, ME
Iulia Barbu, AECOM

**Salon C/D**

**Technical Sessions 12–16**

**Multiparty Collaboration—A Cost-Effective Culvert Replacement**

Kathryn Edwards, Arcadis
Robert Cantoreggi, Town of Franklin, MA

**Leveraging Technology to Increase Catch Basin Maintenance Efficiency**

Matt Bianchi, Utility Cloud
John Lopes, Boston Water and Sewer Commission

**Adventures in Phosphorus Removal**

Daniel Sullivan, Town of Wallingford, CT
Brian Hickey, CDM Smith

**Bay Park STP Flood Mitigation Upgrade Program**

Eric Mills, Hazen and Sawyer

**Overview of the MassDEP I/I Program**

Kevin Brander, MassDEP

**Case Study—Framingham, MA Experience with I/I Reduction Program**

James Barsanti, Town of Framingham, MA

**Important Considerations of an I/I Investigation or “Getting Bang for Your Buck”**

Patrick Stevens, ADS Environmental Services

**Panel Discussion:**

James Barsanti, Town of Framingham, MA
Kevin Brander, MassDEP
Patrick Stevens, ADS Environmental Services

**Use of Tertiary UF for Water Reuse Reduces Costs and Provides a Reliable Source for Industry**

Melanie Blake, Koch Membrane Systems, Inc.
Henia Yacubowicz, Koch Membrane Systems, Inc.

**Phosphorus-Recovery from Waste Activated Sludge (WAS) in Enhanced Biological Phosphorus Removal (EBPR) Process**

Yuqi Wang, Northeastern University
April Gu and Annalisa Onnis-Hayden, Northeastern University

**Water Conservation Technology for Recirculating Cooling Systems**

Karen Golmer, NEWIN

**Utilizing Stormwater for Cooling Tower Reuse at a University CoGen Facility**

Jay Sheehan, Woodard & Curran

**Portland Maine’s Design Standards and O&M Plan for Municipal Green Infrastructure**

David Senus, Woodard & Curran
Zach Henderson, Woodard & Curran

**Step-by-Step, Improving the Environment through a Comprehensive Illicit Discharge Detection and Elimination Program while Facing a Consent Decree**

Teri Demers, Woodard & Curran
Garrett Bergey, Stacey DePasquale Engineering

**Trying to Keep a Step Ahead: How Framingham is Preparing for the New MS4 Requirements**

Kerry Reed, Town of Framingham, MA
Eric Johnson, Town of Framingham, MA

**Proactive Preparation—A Small Community’s Approach Towards MS4 Compliance**

Jon Gregory, Tata & Howard

Exhibit Hall Break
10:00–10:30 AM

Exhibit Hall Break
10:00–10:30 AM
Tuesday 9:00–11:30 AM

Session 16
Plant Operations II—BNR—from Concept to Implementation, Part 2

Moderators:
Jon Hume, Wright-Pierce
Steve Sloan, Portland Water District

Provincetown

Technical Sessions 12–16

Upgrading WRRFs for Biological Nutrient Removal
Don Esping, Brown and Caldwell

Emerging Nutrient Limits? Let’s Pilot BNR!
Lindsay Shields, Wright-Pierce
Kristen Lemasney, Wright-Pierce
Raymond Vermette, City of Dover, NH

Mystic Completes Year One Operating the BioMag Process
Megan Moody, CDM Smith
William McConnell, CDM Smith

Prove It! Demonstrating Performance of a Combined Carbon and Ammonia Removal BAF
Erik Meserve, AECOM
Paula Anania and Terry Desmarais, City of Portsmouth, NH
Erik Grotton, Blueleaf Incorporated

Tuesday 1:30–4:00 PM

Technical Sessions 17–22

Session 17
Hot Topic: Regulatory Challenges

Moderators:
Dave Polcari, CDM Smith
Joe Kietner, City of Chicopee, MA

Salon A/B

Overview of NPDES Issues Impacting New England Permittees and Strategy for Ensuring Reasonable Requirements
John Hall, Hall & Associates

Working through the Maze of the New SSI Rules—Lessons from The Mattabassett District
Melissa Hamkins, Wright-Pierce

TMDLs: One Size DOES NOT Fit All
Paul Hogan, Woodard and Curran

Integrated Planning for Nitrogen Controls in the Exeter/Squamscott Watershed—New Flexibility Brings New Opportunities
Robert Roseen, Horsley Witten Group
Renee Bourdeau, Geosyntec Consultants
Paul Stacey, Great Bay NERRS
Alison Watts, University of New Hampshire

Session 18
Operator Ingenuity

Moderators:
Tim Vadney, Wright-Pierce
Sandra Tripp, GHD Inc.

Suffolk

Instruments and Methods used for Process Monitoring and Control of the North Attleborough, MA WWTF
Kaela Wiklund, Town of North Attleborough, MA
Daniel Roop, Tighe and Bond

Low Cost Technology for Operational Efficiency
Brad Hayes, City of Tavares, FL

Do-it-Yourself Permanganate Dosing System for Odor Control
Mike Carle, Town of Hampton, NH

Do-it-Yourself Sludge Dewatering Screw Press Installation
Ray Vermette, City of Dover, NH

Do-it-Yourself Improved Septage Receiving Facilities
Sean Greig, Town of Newmarket, NH

Innovative Pump Rag Removal Tool and Low Chlorine Early Warning System
Paula Anania and Mike Baker, City of Portsmouth, NH

Drive Chain Removal Assistive Device and Simple Fix for Railing Removal and Access
Joe Crosby, Narragansett Bay Commission

Exhibit Hall Break
10:00–10:30 AM

Exhibit Hall Break
2:30–3:00 PM
Tuesday 1:30–4:00 PM

**Technical Sessions 17 – 22**

**Session 19**
Information Technology & Automation—Continuous Improvement in the Instrumentation, IT and Automation Sectors

*Moderators:*
John Trofatter, Duperon Corporation
John Sykora, Weston & Sampson

**Session 20**
Collection Systems II—Episode II: Attack of the Odors and FOG

*Moderators:*
Kevin Olson, Wright-Pierce
Ashley Dunn, Town of Framingham, MA

**Session 21**
Asset Management I—Asset Management Trends

*Moderators:*
George Pendleton, Martinez, Couch & Associates
Lori Carriero, Tighe & Bond

**Salon C/D**

Practicing Environmental Stewardship — and Saving Money — Utilizing Trenchless Technology
Shawn Ready, Ted Berry Company Inc.

3D Laser Scanning & Modeling for Condition Assessment and Asset Management/Planning
Christopher Lorrain, LandTech Consultants

Enhanced Asset Management through Vulnerability Assessment
Linda Warren, Launch! Consulting, LLC
Sanjay Puranik and George Brown, Hazen and Sawyer
Vincent Morello, Broward County Water and Wastewater Services

ISO55000 & Asset Management
Aditya Ramamurthy, Hazen and Sawyer
Ryan Nagel, Hazen and Sawyer

**Session 22**
Energy—Something Tried and Something New–Energy Reduction and Production Projects

*Moderas:*
David Van Hoven, MWH Global
Anthony Piazza, Town of Simsbury, CT

Down the Drain: Trimming Energy Waste from a Wastewater Facility without Breaking the Bank
Frederick Mueller, Tighe & Bond

Worth the Trouble? Raw Wastewater Energy Recovery Case Study
Anastasia Rudenko, GHD Inc.
Andrew Boule, Town of Barnstable, MA

Energy and Organics: Regulatory and Contracting Issues
Steve Torres, Pannone Lopes Devereaux and West LLC
Teno West, Pannone Lopes Devereaux and West LLC

A Transition to Resource Recovery Facility through the Installation of Enhanced Primary Treatment
Alex Wright, ClearCove

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Exhibit Hall Break
2:30–3:00 PM
Wednesday  
8:30–11:00 AM

**Technical Sessions 23–27**

**Session 23**
Hot Topic: Watershed Nitrogen Tracking and Accounting

**Moderators:**
Patricia Chesebrough, Weston & Sampson
Cynthia Baumann, CDM Smith

**Salon C/D**

How New Methods of Nitrogen Treatment for Stormwater are Designed to Help Cape and Other Coastal Municipalities Meet Nitrogen TMDLs
Matt Lundsted, Comprehensive Environmental, Inc.
Nick Cristofori, Comprehensive Environmental, Inc.
Ray Cody, US EPA

A Multi-Faceted Approach to Addressing Nitrogen Sources in Exeter NH
Ed Leonard, Wright-Pierce
Andrew Morrill, Wright-Pierce

Combining Sewering with Non-traditional Technologies to Meet Nitrogen TMDLs in Dennis, Massachusetts
Kara Johnston, CDM Smith
David Young, CDM Smith

Eastham’s Integrated Approach to Nutrient Management - Initial Implementation and Next Steps
Jessica Janney, GHD Inc.
Jane Crowley, Town of Eastham, MA
Anastasia Rudenko, GHD Inc.

**Session 24**
Sustainability—Sustainable and Resilient Infrastructure

**Moderators:**
Meredith Zona, Stantec
David Peterson, Kleinfelder

**Provincetown**

Vulnerability of Water to Climate Uncertainty and How to Adapt Effectively
Frances Bui, CDM Smith
Lauren Kionsky, Kirk Westphal, and Shayne Wood, CDM Smith

Putting Envision into Work in Planning Sustainable Projects
Courtney Eaton, Carollo Engineers
Tracy Clinton and Brian Clow, Carollo Engineers

Urban Smart Sewering: Water and Energy Solutions for the Coming Century
Julie Wood, Charles River Watershed Association
Bruce Douglas, Natural Systems Utilities
Nigel Pickering, Charles River Watershed Association

Maximizing Long Term Reliability through Commissioning
Jen Muir, JKMuir

**Session 25**
Safety—Safety Updates for Today’s Plant Challenges

**Moderators:**
Dave Aucoin, Narragansett Bay Commission
James Laliberte, NEIWPCC

**Suffolk**

Construction Challenges of the Seekonk Combined Sewer Overflow (CSO) Interceptor
Roger Norton, CDM Smith
William Cotter, Mohammad Reza Jafari, and Robert Otosky, CDM Smith

A CSO Tunnel for a Century: Challenges of Planning and Design of the DC Clean Rivers Project
Rosa Castro-Krawiec, McMillen Jacobs Associates
Rafael Castro and Joel Kantola, McMillen, Jacobs Associates

Nashua Reduces CSOs with Green Infrastructure and Trenchless Technology
Nicholas Ellis, Hazen & Sawyer
Joseph Mendola, City of Nashua, NH

Capacity Assessment and Management Strategies to Control an Urban Stream in Lewiston, Maine
Jeff Beaule, City of Lewiston, ME
Daniel Bisson and Robert Musci, CDM Smith

**Session 26**
CSO II—Wet Weather Conveyance Improvements and Impact Mitigation

**Moderators:**
Steven Freedman, AECOM
Virginia Roach, CDM Smith

**Salon A/B**

How New Methods of Nitrogen Treatment for Stormwater are Designed to Help Cape and Other Coastal Municipalities Meet Nitrogen TMDLs
Matt Lundsted, Comprehensive Environmental, Inc.
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Jen Muir, JKMuir

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

Session 27
Asset Management II—Case Studies

Moderators:
Keith McHale, Consultant
Shelby Beauchemin, Woodard & Curran

Simmons

Technical Sessions 23–27

Getting Started with Stormwater Asset Management in Westford, MA
Emily Scerbo, Tighe & Bond
Jeremy Downs, Town of Westford, MA

Groton, CT Pump Station Evaluation
Jen Zoppo, CH2M
Chris Lund, Town of Groton, CT
Eric Muir, CH2M

Master Facility Plan for the Bowery Bay WWTP
Benjamin Levin, Hazen and Sawyer
Anni Luck and Paul Saurer, Hazen and Sawyer
James Mueller, New York City DEP

Pulling it Together: Canton’s Five-Year IWRMP Asset Management Implementation
Michael Trotta, Town of Canton, MA
Rod Lovely and Kirsten Ryan, Kleinfelder

Wednesday
1:00–3:00 PM

Session 28
Stormwater II—Earn Your Keep: Making Your BMPs Work Better

Moderators:
Aubrey Strause, Fuss & O’Neill
Russell Parkman, Ramboll Environ

Selecting the Most Cost Effective BMPs for the Removal of Specific Nonpoint Source Pollutants
Jeffrey Herr, Brown and Caldwell

Optimization of Filter Media and System Configurations of Green Stormwater Infrastructure Technologies
Iulia Barbu, AECOM
Kevin Beuttell, Stantec
Thomas Ballestero, UNH Stormwater Center

Tools for Climate Change Adaptation—Intelligent Control of Green Infrastructure
Andrea Braga, Geosyntec Consultants
Kelly Havens, Geosyntec Consultants

The Development of Flow Simulation Tools for Permeable Pavement Systems
Iulia Barbu, AECOM
Thomas Ballestero, UNH Stormwater Center

Session 29
Plant Operations III—Operational Challenges and Solutions: Grit, Odor, Instrumentation and Primary

Moderators:
Tom Hazlett, Woodard & Curran
Pam Westgate, Kleinfelder

Get the Grit Out! Manchester, NH’s WWTP Grit System Upgrade Project
Fred McNeill, City of Manchester, NH
Stephen Calabro, Stantec

Case Study: Odor Control Evaluation and Corrective Action at the Stamford, CT WPCF
Jeffrey Pinnette, Wright-Pierce
Daniel Capano, City of Stamford, CT/Diversified Technical Services, Inc.

Foam Accumulation and Mitigation in BNR Systems
Sarah Galst, Hazen and Sawyer
Michael Lynch and Paul Pitt, Hazen and Sawyer
Keith Mahoney, NYC DEP

Optimizing Clarifier Performance—Are We Designing the Clarifiers Right?
Jim Fitzpatrick, Black & Veatch
James Barnard, Bikram Sabherwal, and Mark Steichen, Black & Veatch

Exhibit Hall Break
9:30–10:00 AM
Wednesday 1:00–3:00 PM

Technical Sessions 28–30

Session 30
Collection Systems III—Episode IV: A New Tech

Moderators:
Peter Garvey, Dewberry
Thomas Loto, Kleinfelder

Salon C/D

**Innovative Odor and Corrosion Control Strategies for the Woodbridge Interceptor Sewer**
Robert Bowker, Bowker & Associates
David Skibicki, Alaimo Group
Scott Thompson, Township of Woodbridge, NJ

**Prioritizing Efforts Using SL-RAT to Reduce SSOs**
Lindsey Donbavand, CDM Smith
Dan Murphy, CDM Smith

**Welcome PACP Version 7.0: Introducing the New Standard for Pipe Asset Management**
Laurie Perkins, Wright-Pierce

**Cambridge Street Rehabilitation—Challenges of Trenchless Rehabilitation in Large Interceptors**
Kara Keleher, Weston & Sampson
Frank Occhipinti, Weston & Sampson

Monday 8:30 AM – 4:30 PM

Session with Authors 1:30 – 3:30 PM

4th Floor

**Combined Odor Control and Enhanced Dewatering**
Alan Burke, Chemours, ADOX® Water Technologies

**Phase 2 Upgrade to the Merrimack, NH WWTF—Advancing Nutrient Removal**
Matthew Burns, Wright-Pierce

**Church Street Pump Station—Vital Infrastructure for Thriving Beach Community**
Michael Curry, Wright-Pierce

**Glycerin Augmented BNR in an A2/O Process with Online Process Monitoring and Automation**
Anthony Giovannone, Environmental Operating Solutions, Inc.

**Application of the Biotic Ligand Model to Derive Acute and Chronic Site-Specific Water Quality Criteria for Copper in the Little Androscoggin River**
Patrick Gwinn, Integral Consulting, Inc.

**Low Tech/High Performance Nitrogen Removal**
Brooks Newbry, Aero-Mod, Inc.

**Trenchless Technology Microtunneling and HDD Methods Bring Added Value to Wastewater Collection and Water Supply Systems**
Maurice Ponti, Jr., Stantec

**Novel Hydrolysis Process Produces Additional Biogas, Class A Biofertilizer, and a Carbon Source for BNR**
Ajay Singh, Lystek International, Inc.

**What is my General Duty to Prevent Releases?**
Alan Stratton, Tighe & Bond

**Challenges & Opportunities in Variable Speed Wastewater Pumping**
Kristel Zaman, Xylem, Inc.

**Urban Resilience Planning - How Ready are You?**
Kristel Zaman, Xylem, Inc.
Graduate Student Technical Session

Fighting the Rising Tide: Diminished Septic System Performance Due to Climate Change
Jen Cooper, University of Rhode Island

Technology Limit of Enhanced Biological Phosphorus Removal Process for Sustainable Phosphorus Removal and Recovery
Yuqin Li, Northeastern University

Rapid Quantification of Dissolved and Nanoparticulate Metals with SEC-ICP-MS
Pooya Paydar, Northeastern University

Diversity Of Cyanobacteria in Lake Systems: Explaining Biogeographic Patterns Using a Neutral Agent-Based Model
Sahar Shirani, Northeastern University

Effects of Outer Membrane Vesicles on the Gram-negative Bacteria Population
Masoud Mahdi Soltani, Northeastern University

Student Board Display Competition

Wastewater Treatment System Design Improvements at the American Farm School in Thessaloniki, Greece
Nikos Kalaitzidis, Worcester Polytechnic Institute

The Electrochemically-Induced Reduction of Nitrates and Trichloroethylene in Aqueous Solution
David Berroa, Northeastern University

Use of Ozone to Remove Soluble Organic Nitrogen from Wastewater
Lindsey Carver, Northeastern University

Recharging the City: Improving Stormwater Management and Groundwater Recharge for Redevelopment of the William E. Carter Field
Greg Coyle, Northeastern University

Lexington “Stream Team”
Karen Chan, University of Massachusetts/Lowell

Woburn MS4 Stormwater Management Program
Stephanie Collins, University of Massachusetts/Lowell

Moderators

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<td>Barr Engineering Co.</td>
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<td>Laurie Perkins</td>
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<td>Nigel Pickering</td>
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<td>Shawn Ready</td>
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<td>Kelsey Reeves</td>
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<td>Anastasia Rudenko</td>
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<td>Sahar Shirani</td>
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<td>Paul Stacey</td>
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<td>Eric Stauton</td>
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<td>Mark Steichen</td>
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<td>Bruce Stevens</td>
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<td>Patrick Stevens</td>
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<td>Michael Sullivan</td>
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<td>Nick Tooker</td>
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<td>Jason Turgeon</td>
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<td>Henia Vacyubowicz</td>
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<td>Jen Zoppo</td>
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Annual Business Meeting

Welcome
Matt Formica, NEWEA President

Treasurer Report
FY 2015 Fiscal Report – Frank Occhipinti

2016 Officer Nominations
By vote of the Nominating Committee, I submit the following nominations in accordance with Article 9.3.1 of the NEWEA Constitution and Bylaws to the Executive Committee, for approval to place the state of officers before the membership at the NEWEA Annual Business Meeting on January 24, 2016:

• Vice President – Janine Burke-Wells
• Treasurer – Priscilla Bloomfield (1st yr)
• Council Director/Meeting Management – Elena Proakis Ellis (1st yr)
• Council Director/Communications – Jennifer Lachmayr (2nd yr)
• Council Director/Treatment, Systems Operations, and Management – Mary Lee Santoro (1st yr)
• WEF Delegate – Fred McNeill (WEFTEC 2016 – 2019)
• Maine Director – Clayton "Mac" Richardson (1st yr)
• New Hampshire Director – Sean Greig (1st yr)
• Secretary – Gerald Potamis (3rd yr)

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

• President – Raymond Willis
• President-Elect – James Barsanti
• Past President – Matthew Formica

The remaining incumbents are fulfilling unexpired terms:

• Council Director/Collection Systems & Water Resources – Virgil Lloyd (3rd yr)
• Council Director/Outreach – Jonathan Kunay (2nd yr)
• WEF Delegate – Michael Wilson (through WEFTEC 2016)
• WEF Delegate – Daniel Bisson (through WEFTEC 2017)
• WEF Delegate – Susan Sullivan (through WEFTEC 2018)
• Connecticut Director – Jay Sheehan (3rd yr)
• Massachusetts Director – Michael Moreau (3rd yr)
• Rhode Island Director – Michael Spring (2nd yr)
• Vermont Director – Nathan Lavallee (2nd yr)

Adjourn
Matt Formica, NEWEA President

Guest Program

MONDAY, JANUARY 25

Lunch – Top of the Hub
12:00 noon
Dutch Treat, not included in Registration – please no jeans

Exhibit Hall Reception
4:30-6:30 PM • 3rd Floor Exhibit Area

TUESDAY, JANUARY 26

Breakfast
7:30 AM • Regis

Flower Arranging 101
9:00 AM-3:00 PM • Coordinator: Joy Lord
In the middle of January, who doesn’t need some fresh flowers for cheer? Following breakfast, we will explore all things flowers! Throughout the morning we’ll make various tissue paper flowers – both large and small – and then move on to the fresh flowers. If you have ever wanted to know how to make an arrangement for your home, these instructions will help create a simple base from which to explore your own creativity. No two arrangements will look alike. We will make a very small arrangement in a unique vessel, a larger arrangement and, as usual, there will be a few surprises during the day.

Our lunch will be off property but in the mall, so a short walk INSIDE. No need to bring anything this year. Just yourself!

Exhibit Hall Reception
4:00–6:00 PM • 4th Floor Exhibit Area
Exhibitors

ABBA Pump Parts & Service  Booth #133
ABBA PARTS manufactures REPLACEMENT pumps, parts & assemblies to fit or replace brand name pumps used in municipal water & wastewater pumping facilities. Specializing in parts to fit Fairbanks Morse, Allis Chalmers, Worthington, Smith & Loveless.  
Contact: Wendy Jamison, 5370 Munro Court, Burlington, Ontario, tel: (800) 268-5142, wendy_j@abbparts.com, www.abbparts.com

ACF Environmental, Inc.  Booth #416
ACF Environmental has provided innovative site development solutions for over 30 years and specializes in Stormwater Management Solutions for all Site Development, LID, and Green Infrastructure design challenges.  
Contact: Leland Jones, 2831 Cardwell Rd, Richmond, VA 23234, tel: (800) 223-9021, ljoness@acfenv.com, www.acfenv.com

ADS Environmental Services  Silver Sponsor  Booth #437, 445
ADS provides a full range of flow monitoring equipment and service as well as field capabilities for LID and SSES study services. Accusonic is a leading provider of engineering flow monitoring solutions and Hydra-Stop is a worldwide provider of pipeline tapping, line stopping and valve insertion equipment.  
Contact: Peter Frick, 51 Wentworth Ave, Ste 15, Londonderry, NH 03053, tel: (203) 725-4062, pfrick@idexcorp.com, www.adsenv.com

Advanced Drainage Systems, Inc.  Booth #162
Advanced Drainage Systems 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. The ADS product line encompasses solutions for stormwater drainage, sanitary sewer, road/highway construction, residential/commercial development for turf/recreational applications, retention/detention systems, on-site leaching chambers and septic systems.  
Contact: Aaron Cheever, 58 Wyoming Street, Ludlow, MA 01056, tel: (978) 302-0650, aaron.cheever@ads-pipe.com, www.ads-pipe.com

AESCU Utility Cloud  Booth C
Utility Cloud is a customized operations management system that accelerates and streamlines data collection and retrieval for visualization and analysis, allowing business decisions to be made more effectively and efficiently.

Allied Powers LLC  Booth #150

AllMax Software Inc.  Booth #195
Operator 101 water and wastewater software, Antero CMMS and Syensus pretreatment software. Data management and reporting software and comprehensive technical support services.  
Contact: Doug Kilma, 911 South Main Street, Kenton, OH 43326, tel: (800) 670-1867, sales@allmaxsoftware.com, www.allmaxsoftware.com

ANUA International  Booth #410-413, 473, 474, 481, 482, 489, 490
Biofiltration System for Odor & VOC Control using Monashell Media, Sustainable and Renewable with the ability to maintain a neutral pH within the Biofilter. Designed like a Biotrickling system yet incorporates many benefits of traditional units.  
Contact: Casey Davis, PO Box 77457, Greensboro, NC 27417, tel: (336) 547-9338, casey.davis@anua.com, www.anuainternational.com, Wescor Associates, Inc.

AP/M CentriPipe  Booth #193
CentriPipe is the original centrifugally cast concrete pipe solution. Approved, installed, and trusted by DOT’s and municipalities for proven, cost-effective, trenchless, structural spin-cast lining of culverts.  
Contact: Tom Perry, PO Box 555, Johnston, IA 50131, tel: (800) 663-6465, info@permaform.net, www.centrpipe.com, Multi Utilities Ventures LLC

Apollo Safety Inc.  Booth #210
Apollo Safety Inc. is a leader in all things safety. From gas detection, both fixed and portable, to first aid and safety equipment, Apollo Safety offers sales and service of a world class nature.  
Contact: Tracy Carvalho, 57 Walnut Street, Fall River, MA 02720, tel: (508) 673-2544, sales@apollosafety.com, www.apollosafety.com

Aqua Solutions, Inc.  Gold Sponsor  Booth #452, 453, 460, 461, 469
Aqua Solutions, Inc. is a Diagnostics & Consulting provider that brings on site comprehensive Total Nitrogen analysis and assists in the design & implementation of cost effective treatment solutions.  
Contact: Jim DeLuca, 154 West Grove Street, Middleboro, MA 02346, tel: (508) 947-5777, info@aqua-solutionsinc.net, www.aqua-solutionsinc.net

Aquagen Infrastructure Systems, Inc.  Gold Sponsor  Booth #110
Integrated sustainable infrastructure systems including algae based wastewater treatment and nutrient reclamation with biomass based renewable energy resource development for sustainable communities.  
Contact: Brian Braginton-Smith, 928 Route 28, West Yarmouth, MA 02673, tel: (508) 280-6099, bbs@aquagen-isi.ws, www.tcddevelopmentgroup.com, The Conservation Consortium

Aquametrix by Water Analytics  Booth #199
US manufacturer of water and wastewater solutions. Areas of expertise are process monitoring and control. Standalone and networked controllers with instrumentation (pH, ORP, EC, Turbidity, Flow, DO, Level) are available along with technical support.  
Contact: Jeffrey Aghhyayan, 100 School Street, Andover, MA 01810, tel: (978) 749-9949, jaghhyayan@wateranalytics.net, www.wateranalytics.net

Aquaturbo Systems, Inc.  Booth #410-413, 473, 474, 481, 482, 489, 490
Fixed low-speed bottom aerator/mixers, floating surface aerators, fixed low-speed surface aerators, blowers, pumps, chopper/strainers and subprocess mixers.  

Aquionics Inc.  Booth #401-409
With over 30 years of experience, Aquionics has a full product portfolio (open channel, MP & LPHO closed vessel) for all municipal applications supported by 3rd party validations (NWRI, UVDGM).  
Contact: Bree Trembly, 1455 Jamike Ave, Ste 100, Erlanger, KY 41018, tel: (859) 341-0710, bree.trembly@aquionics.com, www.aquionics.com, F. R. Mahony & Associates

Aries Industries, Inc.  Booth #138
Aries Industries, Inc, manufactures inspection and rehabilitation equipment for underground infrastructure professionals. Sewer pipeline equipment includes video cameras and systems, cutting and grouting equipment, and custom-outfitted vehicles.  
Contact: John Kudis, 550 Elizabeth Street, Waukesha, WI 53186, tel: (262)446-5633, john.kudis@ariesindustries.com, www.ariesindustries.com

ASA Analytics  Booth #410-413, 473, 474, 481, 482, 489, 490
ChemScan Analyzers are used widely for biological nutrient removal. ChemScan control helps plants reach 0.1 mg/l Total Nitrogen removal on a continuous basis. ChemScan installations total 300+ installs in North America.  
Contact: Bruce Stevens, 2325 Parklawn Dr, Ste 1, Waukesha, WI 53186, tel: (262) 391-8306, bps@chemscan.com, www.asaanalytics.com, Wescor Associates, Inc.

Asahi/America, Inc.  Booth #435, 436
Asahi/America is a complete solutions provider of corrosion resistant thermoplastic fluid handling systems, including valves and pipe. We maintain a custom fabrication department and provide consultation, supervision and training where required.  
Contact: Joe Durning, 655 Andover Street, PO Box 1108, Lawrence, MA 01843, tel: (800) 343-3618, asahi@asahiamerica.com, www.asahiamerica.com
ISO 9001:2008 Certified

Brentwood Industries, Inc.
Brentwood offers solutions for highly diverse worldwide industries, including engineered water and wastewater treatment systems such as 100% non-metallic chain and flight collectors, tube settlers, trickling filters, submerged fixed-film media, and sediment dredge systems.
Contact: David Barrasse, 500 Spring Ridge Drive, Reading, PA 19610, tel: (610)374-5109, water@brentwoodindustries.com, brentwoodindustries.com, THE MAHER Corporation

Burt Process Equipment
Contact: Kimball Putnam, 100 Overlook Dr., Hamden, CT 06514, tel: (203) 287-1985, kimballputnam@burtprocess.com, www.burtprocess.com

C. N. Wood Co., Inc.
C.N. Wood is New England's premiere distributor for Environmental Equipment. Carrying such lines as Elgin, Vactor, Rapidview, New Way, Gradall and more.
Contact: Michaela Klofac, 200 Merrimac Street, Woburn, MA 01801, tel: (781) 935-1919, mklofac@cn-wood.com, www.cn-wood.com

Cabot Norit Activated Carbon
Cabot Norit Activated Carbon is one of the world's largest and oldest manufacturers and marketer of Activated Carbons, along with Related Storage & Dosing Equipment. That specializes, but is not limited to potable and wastewater purification as well as DARCO H2S for odor control.
Contact: Howie Yerger, 3200 University Ave, Marshall, TX 75760, tel: (800) 641-9245, howard.yerger@cabotcorp.com, www.cabotcorp.com

Carl Lueders & Company
Manufacturers' representative for a variety of instrumentation and controls equipment. Sensors include level, flow, pressure, temperature and analytical types. Monitors include panel meters, pump controllers, recorders, and wireless telemetry equipment. Brand names include Telog Instruments, Badgermeter, KPSI and Kessler Ellis Products.
Contact: Mark Lueders, 258 Main Street, Unit #6, Medfield, MA 02052, tel: (508) 359-7577, markalueders@cs.com, www.luederscompany.com

Carsen Systems, LLC
Contact: Craig Burmeister, 176 Armity Rd. #102, Woodbridge, CT 06625, tel: (203)663-1314, www.carsenssystems.com

Carter Pump
For over 63 years, manufacturer of high quality Plunger Pumps. Also Diaphragm Pumps and Marlow Plunger Pump Replacement Parts.
Contact: Roberto Lopez, 326 South Dean Street, Englewood, NJ 07631, tel: (800) 568-9798, rolpez@carterpump.com, www.carterpump.com, Mechanical Solutions, Inc.

Carus Corporation
Carus Corporation manufactures a range of products for the municipal and industrial markets, with the majority of our product uses being environmental applications and water treatment.
Contact: Luis Hernandez, 315 Fifth Street, Peru, IL 61354, tel: (800) 435-6856, mizziness@gmail.com, www.caruscorporation.com

Casella Organics
Casella Organics is an industry leader in the transportation, management, beneficial reuse, and marketing of organic and mineral resources including short paper fiber, ash, liming agents, food wastes, biosolids, and compost. Our experience and knowledge with liquid and solid residuals helps clients build, manage and maintain sustainable and effective resource solutions.
Contact: Jen McDonnell, 110 Main Street, Suite 1308, Saco, ME 04072, tel: (207) 347-3600, jen.mcdonnell@casella.com, www.casellaorganics.com
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<thead>
<tr>
<th>Company</th>
<th>Booth #</th>
<th>Contact Information</th>
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<tbody>
<tr>
<td>Cretex Specialty Products, Inc.</td>
<td>#139</td>
<td>Contact: Greg Harmon, 220 Ohio Street, Ashland, OH 44805, tel: (800) 363-5842, <a href="mailto:greg.harmonco@gmail.com">greg.harmonco@gmail.com</a>, <a href="http://www.cretexcontrols.com">www.cretexcontrols.com</a>, Harmon &amp; Co, Inc.</td>
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<tr>
<td>CSI Controls</td>
<td>#415</td>
<td>Contact: Greg Harmon, 220 Ohio Street, Ashland, OH 44805, tel: (800) 363-5842, <a href="mailto:greg.harmonco@gmail.com">greg.harmonco@gmail.com</a>, <a href="http://www.csicontrols.com">www.csicontrols.com</a>, Harmon &amp; Co, Inc.</td>
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<tr>
<td>CST Covers</td>
<td>#176</td>
<td>Contact: Terri Mooney, 3600 Rio Vista Avenue, Orlando, FL 32805, tel: (800) 327-7791, <a href="mailto:terrim@cuesinc.com">terrim@cuesinc.com</a>, <a href="http://www.cctest.com">www.cctest.com</a></td>
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<tr>
<td>DN Tanks</td>
<td>#478</td>
<td>Contact: Chris Hodgson, 11 Teal Road, Wakefield, MA 01880, tel: (781) 246-1133, <a href="mailto:chris.hodgson@dntanks.com">chris.hodgson@dntanks.com</a>, <a href="http://www.dntanks.com">www.dntanks.com</a></td>
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<tr>
<td>Dual (Div MetPro)</td>
<td>#410-413, 473, 474, 481, 482, 489, 490</td>
<td>Contact: Craig Thornton, 150 Industrial Drive, Oswasso, MI 48867, tel: (989) 725-8184, c <a href="mailto:Thornton@cecoenviro.com">Thornton@cecoenviro.com</a>, <a href="http://www.mpeas.com">www.mpeas.com</a>, Wescor Associates, Inc.</td>
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<tr>
<td>Duke's Root Control (BRONZE SPONSOR)</td>
<td>#467</td>
<td>Contact: Mike Sullivan, 19 Batchelder Rd, Ste 2B, Seabrook, NH 03874, tel: (603) 424-4600, <a href="mailto:hthompson@felixseptic.com">hthompson@felixseptic.com</a>, <a href="http://www.easternpipeservice.com">www.easternpipeservice.com</a></td>
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<td>ECOInsight Instruments Ltd.</td>
<td>#169</td>
<td>Contact: Phil Beckman, 2596 Dunwin Drive, Mississauga, Ontario L5S 1J5, tel: (905) 569-7357, <a href="mailto:pbeckman@ecoinsightinstruments.com">pbeckman@ecoinsightinstruments.com</a>, <a href="http://www.ecoinsightinstruments.com">www.ecoinsightinstruments.com</a></td>
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<td>Eastern Pipe Service Inc.</td>
<td>#169</td>
<td>Contact: Hubert Thompson, 2 Thibeault Dr, Bow, NH 03304, tel: (603)424-4600, <a href="mailto:hthompson@felixseptic.com">hthompson@felixseptic.com</a>, <a href="http://www.easternpipeservice.com">www.easternpipeservice.com</a></td>
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<td>Enaqua</td>
<td>#455</td>
<td>Contact: Kyle Montgomery, 16602 Central Green Blvd, Houston, TX 77032, tel: (713) 358-4000, <a href="mailto:kmontgomery@edurocomposites.com">kmontgomery@edurocomposites.com</a>, <a href="http://www.edurocomposites.com">www.edurocomposites.com</a>, Atlantic Fluid Technology, Inc.</td>
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Environment One Corporation  Booth #401-409
Whether you're replacing failed septic systems or building out a new community, find out how E/One Sewers can make flat, wet, rocky, or hilly sites workable and cut your sewer costs up to 50%.
Contact: Christopher Nedwick, 2773 Balltown Rd., Niskayuna, NY 12309, tel: (518) 346-6161, eone@eone.com, www.eone.com, F. R. Mahony & Associates

Environmental Dynamics, Inc. (EDI)  Booth #175
Environmental Dynamics International (EDI) specializes in the development and application of advanced technology aeration and biological treatment solutions for municipal and industrial wastewater. The professionals and engineers at EDI provide the highest level of value added service, technology transfer, process application and system design support. EDI is a full service organization and provides field contract services for equipment installation, start-up and maintenance with demonstrated success in more than 7,000 installations in over 100 countries worldwide.

Environmental Operating Solutions, Inc.  Booth #449
Environmental Operating Solutions, Inc. (EOSi) offers their MicroC™ proprietary line of premium carbon sources, as well as, a suite of objective based solutions and services to help customers meet their nutrient limits.
Contact: Isabelle Montesi, 160 MacArthur Blvd., Ste 6, Bourne, MA 02532, tel: (508) 322-3086, imontesi@micoc.com, www.micoc.com

eRPortal Software, Inc.  Booth #204
Contact: Ed Garibian, 59 Interstate Drive, Ste 30, West Springfield, MA 01089, tel: (413) 233-5400, egaribian@erportalsoftware.com, www.erportalsoftware.com

EST Associates, Inc. (GOLD SPONSOR)  Booth #492
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 Street, Needham, MA 02494, tel: (781) 455-0003, jcarlin@estassociates.com, www.estassociates.com

Evoqua Water Technologies (formerly Siemens Water)  Booth #166
Evoqua Water Technologies helps consulting engineers and municipalities meet evolving water/wastewater treatment standards through leading brands including Enviros, MEMCOR, Walliance and Tiernan, Jet Tech, Ri Environmental, JWI and USFilter.

F. R. Mahony & Associates, Inc.  Booth #401-409

Fairfield Service Co.  Booth #410-413 & 473-474 & 481-482 & 489-490
Manufacture of Catenary Bar Screens, Clan Climber Screens, Grit Collectors, Rectangular Clarifiers, Lock Link Screens with durable raking device and belt conveyors.
Contact: James Wilson, 2890 Harding Hwy East, Suite A, Marion, OH 43302, tel: (219)872-3000, wilson@fairfieldservice.com, www.fairfieldservice.com, Wescor Associates, Inc.

Fiberglass Fabricators, Inc.  Booth #401-409
FFI manufactures FRP-Products for the water and wastewater industries, FRP tank covers, launder-covers, weirs, baffles, density-current-baffles, troughs, stop logs, parshall-flumes, FRP grating-handrail-stairs, and custom FRP fabricators.
Contact: Phil Dushkiewich, 964 Douglass Pike, Smithfield, RI 02917, tel: (401) 231-3552, pdushkiewich@fflab.com, www.fflab.com, F. R. Mahony & Associates

Flood Control International Inc.  Booth #505
Designer and supplier of the widest range of flood barriers, flood gates and flood doors for commercial and industrial sites. Barriers also available for very long spans and wide area defences.
Contact: Tim Collingswood, 3 Elk Street, Lower Level, New York, NY 10007, tel: tim.collingswood@floodcontrolint.com, www.floodcontrolinternational.com, Atlantic Fluid Technology, Inc.

Flottweg Separation Technology Inc.  Booth #176
Flottweg Separation Technology, Inc. is a successor company of Dorr Oliver, Inc., formerly based in CT. Flottweg manufactures the latest line of thickening and dewatering centrifuges to the highest standards. Energy efficient VFD drives, stainless steel wetted parts and ISO 9001 quality are important features. Successful New England wastewater installations operate in RI, CT and ME.

Flow Assessment Services LLC (GOLD SPONSOR)  Booth #135, 136
Flow Assessment Services provides high quality water system surveys, I/V studies and specializes in long (wireless) and short-term flow monitoring.
Contact: Paul Patrick Casey, 84 Daniel Plummer Rd., Goffstown, NH 03045, tel: (603) 646-9799, p2casey@flowassessment.com, www.flowassessment.com

FlowWorks Inc.  Booth #201
FlowWorks contains a powerful suite of data collection, monitoring, analysis, and reporting tools enabling you to efficiently manage all your monitoring systems through a single web interface.
Contact: Mike Scott, 606 Maynard Ave S, Ste 251, Seattle, WA 98104, tel: (206) 512-0045, mscott@flowworks.com, www.flowworks.com

Flygt Products - A Xylem Brand  Booth #141
FLYGT, a Xylem brand, is the world’s leading manufacturer of submersible pumps and mixers for the municipal and industrial markets. They are ideally suited for wastewater and clean water applications.
Contact: Brenda Kennedy, 78K Olympia Avenue, Woburn, MA 01801, tel: (781)935-6515, brennan.kennedy@xyleminc.com, www.xylem.com

Ford Hall Company  Booth #167
Weir-Wolf is a stainless steel, spring-loaded brush system for cleaning the weirs, baffles and launders of circular clarifiers and thickeners with 1,900 units installed in the US.
Contact: Scott Perry, PO BOX 2110, Richmond, KY 40476, tel: (859)624-1077, sperry@fordhall.com, www.fordhall.com, David F. Sullivan & Associates, Inc.

Fournier Industries  Booth #456
Contact: Brett McQuade, 2714 3rd Avenue West, Bradford, FL 34205, tel: (941)748-8549, b.mcquade@rotary-press.com, www.fournierindustries.com, Russell Resources, Inc.

Franklin Miller, Inc.  Booth #401-409
An innovative force in wastewater grinding for in-line, open channel, septic receiving, screening technology, and gravity systems.
Contact: Joe Macula, 60 Okner Parkway, Livingston, NJ 07039, tel: (973) 533-6457, jmacula@franklinmiller.com, www.franklinmiller.com, F. R. Mahony & Associates

FW Web - Process Controls Division  Booth #205
Manufacturers representative and services organization serving the control instrumentation and valve automation needs of the environmental community, including provision of NIST-traceable instrument field calibration and commissioning. Representing Endress+Hauser.
Contact: John Downey, 37 South Maple Street, Bellingham, MA 02019, tel: (508) 865-5600, john.downey@fwwebb.com, www.fwwebb.com
Gabriel Novac & Associates Ltd.  
**Booth #168**

GNA designs and manufactures CSO and stormwater equipment such as the HYDROSLiDE flow regulators, HYDROSELF, HYDROSELF ROUND, HYDROFLUSH, and AUTOFLUSH flushing systems; HYDROSTYX storage maximizer, HYDROME S.L stormwater treatment, HYDROCLEAN fine brush screen, HYDROSCREEN fine raked bar screen, HYDROSWITH, HYDROCHECK, HYDROGUARD & HYDROBEND complete the GNA, Inc. CSO product line. “NEW” HYDROK Fine Screen.


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**Grandie Water Management Systems**  
**Booth #479**


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**Grease Guardian**  
**Booth #208**

Grease Guardian are manufacturers of high quality stainless steel automatic grease removal units, with over 25 years worldwide experience in wastewater management and grease recovery.

Contact: Des Guardian, 96 Onondaga Street, Yonkers, NY 10704, tel: (800) 677-7861, des@greaseguardian.com, www.greaseguardian.com

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**Green Mountain Pipeline Services (GOLD SPONSOR)**  
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Green Mountain Pipeline Services clears, inspects, repairs and rehabilitates water, storm & sewer pipelines and their related structures throughout New England and New York.

Contact: Tim Vivian, 244 Waterman Rd, Royalton, VT 05068, tel: (802) 763-7022, info@greennountainpipe.com, www.greennountainpipe.com

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**Ground Penetrating Carbon, Inc.**  
**Booth #217**

Ground Penetrating Carbon, Inc. is a team of skilled experts who design and sell GPC Processes that are added to tertiary wastewater treatment systems. GPC Processes substantially reduce nitrogen, and CECs in the effluent of treated wastewater.

Contact: Benjamin Hughes, 205 Worcester Ct, Ste A4, Falmouth, MA 02540, tel: (508) 548-3564, bhughes@groundpenetratingcarbon.com, www.groundpenetratingcarbon.com

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**Grundfos Water Utility**  
**Booth #177**

Grundfos offers total pumping solutions on any scale. Our decades of vast proven experience in developing controllers, motors and monitoring systems provide a complete offering in optimum pumping solutions.

Contact: Tim Fortner, 3905 Enterprise Court, Aurora, IL 60504, tel: (630)236-5500, tfortner@grundfos.com, David F. Sullivan & Associates, Inc.

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**Hach Company**  
**Booth #202**

Hach has a complete portfolio of solution-based lab and process instruments, chemistries, and data management software with support and services to help you get the right results.

Contact: Amy Pollock, 5600 Lindburgh Drive, Loveland, CO 80538, tel: (800) 227-4224, apollock@hach.com, www.hach.com

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**Hampshire Pump & Equipment LLC**  
**Booth E**

Manufacturing representative for New England, specializing in peristaltic and progressive cavity pumps, pinch and check valves, static mixers and dispersion systems, magnetic couplings, packaged pump stations for wastewater, corrosion-resistant composite pumps and parts, and bolted steel tanks.

Contact: Richard Slingsby, 497 Hooksett Rd, Ste 262, Manchester, NH 03104, tel: (603) 540-1608, rslingsby@aol.com

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**Hanna Instruments**  
**Booth #207**

Hanna Instruments is the world’s most innovative manufacturer of scientific testing equipment. The company is an all-in-one manufacturer of meters, titration systems, probes, buffers, reagents, and related equipment.

Contact: 584 Park East Drive, Woonsocket, RI 02895, tel: (800) 426-6287, mkktg@hannainst.com, www.hannainst.com

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**Hannay Equipment**  
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Custom-engineered activated sludge plants for advanced BNR with unparalleled ease of operation and maintenance and no moving parts in the water.


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**Booth #470, 471, 472**

Founded in 1898 Hayes Pump, Inc. is a full service distributor offering pumps, parts, service, and repair for the following manufacturers: Pentair Fairbanks-Nijhuis, Pentair Aurora Pump, The Gorman-Rupp Company, Chemineer Mixers, Grundfos Pumps, John Crane Company, Lobe-Pro Rotary Pumps, MET-PRO GPS Fybroc Division, Mission Communications, Ramparts AOD Pumps, Viking Pump, Warren-Rupp Sandpiper, and Xylem Goulds Water Technology. For further information please call 978-369-8800 or send an E mail to sales@hayespump.com. Also please visit our website at www.hayespump.com

Contact: Craig Huff, 66 Old Powder Mill Road, West Concord, MA 01742, tel: (978)369-8800, sales@hayespump.com, www.hayespump.com

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**Hazen and Sawyer (SILVER SPONSOR)**  
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Hazen and Sawyer (Silver Sponsor) Booth #467. Since our founding in 1951, Hazen and Sawyer has focused on two things: providing safe drinking water and controlling water pollution. Our range of services encompasses the planning, design, and construction management of water and wastewater-related projects, from clean water treatment, storage, and distribution to wastewater and stormwater collection, treatment and reuse.

Contact: Frank Ayotte, fayotte@hazenandsawyer.com or Sherri Marin, smarin@hazenandsawyer.com, 24 Federal Street, 5th Floor, Boston, MA 02110, tel: (617) 574-4747, fax: (617) 574-4799, www.hazenandsawyer.com

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**High Tide Technologies**  
**Booth #401-409**

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, PhD, PO Box 100189, Nashville, TN 37224, tel: (615) 256-6678, david.mundie@high tide technologies.com, www.high tide technologies.com, F. R. Mahoney & Associates

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**HOBAS Pipe USA**  
**Booth #142**

HOBAS Pipes are unique centrifugally cast, fiberglass reinforced, polymer mortar (CCFPRM). They are strong and light with consistent dimensions, smooth surfaces and high stiffness. 18”-126” pressure and non-pressure classes.

Contact: John Mele, 1413 E. Richey Rd, Houston, TX 77073, tel: (800) 856-7473, info@hobaspipe.com, www.hobaspipe.com

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**Holland Company**  
**Booth #500**

New England’s leading manufacturer of high quality inorganic coagulants for phosphorus reduction and settling enhancement. Sodium Bisulfite for dechlorination.

Contact: Patrick Burke, 153 Howland Ave, Adams, MA 01220, tel: (800) 639-9602, info@hollandcompany.com, www.hollandcompany.com

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**Booth #495**

Hydro Gate has a long-standing reputation for providing superior quality water control gates for multiple industries. We manufacture heavy-duty gates that are custom built to match specific applications.

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**Hydro Logic**  
**Booth #493**

Hydromatic Pump - Pentair  
**Booth #102-104**

Hydro Logic

Contact: Derek Zeh, 740 East 9th Street, Ashland, OH 44805, tel: (518) 496-9687, gmacdonald@msisump.com, www.hydromatic.com, Mechanical Solutions, Inc.

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Contact: John Mele, 1413 E. Richey Rd, Houston, TX 77073, tel: (800) 856-7473, info@hobaspipe.com, www.hobaspipe.com

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Hydromatic Pump - Pentair  
**Booth #102-104**

Hydro Logic

Contact: Derek Zeh, 740 East 9th Street, Ashland, OH 44805, tel: (518) 496-9687, gmacdonald@msisump.com, www.hydromatic.com, Mechanical Solutions, Inc.
Innovyze Booth #197
Innovyze is a leading global provider of water engineering and business analytics software solutions designed to meet the technological needs of water and wastewater utilities, government agencies, and engineering organizations worldwide.
Contact: Rajan Ray, 27 Eldred Ct., Wakefield, MA 02879, tel: (401) 932-4631, rajan.ray@innovyze.com, www.innovyze.com

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Contact: Tyler Moreodor, 4225 NE Port Drive, Lee's Summit, MO 64064, tel: (207)989-0591, tmorerod@ipm-sys.com, Russell Resources, Inc.

Ishigaki USA Ltd. Booth #410-413, 473, 474, 481, 482, 489, 490
Contact: Shinji Ichihara, 280 Heritage Ave #J, Portsmouth, NH 03801, tel: (603) 443-3334, shinji.ichihara@ishigaki.com, www.ishigaki.co.jp/english.com, Wescor Associates, Inc.

iTpipes Booth #161
iTpipes provides unparalleled inspection management software and consulting. For manhole, pipe, lateral and underground assets, the iTpipes easy-to-use interface and comprehensive reporting has comprehensive tools to manage your infrastructure.

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Contact: Lauren Usilton, 44 Commercial Street, Raynham, MA 02767, tel: (508) 823-9566, info@jrsalesinc.com, www.jrsalesinc.com

JCS Industries, Inc. Booth #102-104
Manufacturer of Liquid Vacuum Dosers for gas and liquid feed. JCS can create and improve on any materials.
Contact: Michael Ronn, 101 Zima Park Road, Spartanburg, SC 29301, tel: (864) 576-0660, michael.ronn@kusterszima.com, www.kusterswater.com, Atlantic Fluid Technology, Inc.

Kenway Corporation Booth #215
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Kruser, Veolia’s US Municipal Solution, offers innovative, efficient & compact solutions including clarifier, separation, biosolids & biological solutions with low installation costs and rapid startup, optimizing energy and savings.
Contact: Ken Krupa, 4001 Weston Parkway, Cary, NC 27513, tel: (919) 677-8310, usmunicipal@veolia.com, www.kruserus.com, F. R. Mahony & Associates

Kusters Water, a division of Kusters Zima Corporation Booth #496
Kusters Water is a well positioned industry leader offering superior clarification, screening, biosolids and odor control technologies from Hi-Tech, WasteTech, FSM, CSO Technik and ACAT.
Contact: Michael Ronn, 101 Zima Park Road, Spartanburg, SC 29301, tel: (864) 576-0660, michael.ronn@kusterszima.com, www.kusterswater.com, Atlantic Fluid Technology, Inc.

LandTech Consultants Booth #209
Contact: Jackie Sagl, 515 Groton Road, Westford, MA 01886, tel: (978) 692-6100, jsagl@landtechinc.com, www.ltc3d.com

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Lystek International, Inc. Booth #212
Lystek International Inc. was founded in 2000 at the University of Waterloo, Ontario, Canada to commercialize treatment technologies for biosolids and other non-hazardous, organic “waste” materials.
Contact: Jim Belcastro, 1425 Bishop Street, Cambridge, Ontario N1R 6J9, tel: (226) 444-0186, jbelcastro@lystek.com, www.lystek.com

Martinez Couch & Associates, LLC Booth #108
MCA offers experience with a variety of wastewater projects from the study phase through the design and construction phases. Our seasoned staff has a comprehensive background in the design and evaluation of collection systems. MCA is a certified MBE.
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McGill Hose & Coupling, Inc.  
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MGD Process Technology, Inc.  
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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.

Contact: Matthew Dickson, PO Box 654, Boylston, MA 01505, tel: (508) 869-2164, matt.dickson@mgdprocess.com, www.mgdprocess.com, F. R. Mahony & Associates

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Backed by our engineering expertise and technical support, Milliken Infrastructure’s geopolymer mortar solutions deliver the most cost effective, high-performance, eco-friendly infrastructure rehabilitation materials in the marketplace.

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National Water Main Cleaning Co.  
**Booth #107**

New England Environmental Equipment  
**Booth #438-440, 446-448**

Oakson  
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OR-TEC, INC.  
**Booth #401-409**


Contact: Jim O’Leary, 1450 Industrial Ave. South, Maple Heights, OH 44137, tel: (216) 475-5225, jim@or-tec.com, www.or-tec.com, F. R. Mahony & Associates

Parkson Corporation  
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Performance Chemicals, LLC  
**Booth #148**

New Hampshire manufacturer of anti-foams, defoamers and other specialty chemicals.

Contact: Tim Collins, 4 Industrial Park Drive PO Box 9, Franklin, NH 03235, tel: (603) 228-1200, info@perfchem.us, www.perfchem.us/

Perma-Liner Industries, Inc.  
**Booth #419**

PillAerator GmbH  
**Booth #487**

Manufacturer of High speed turbo blowers with magnetic bearings.


Pinnacle Ozone Solutions, LLC  
**Booth #401-409**

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Precision Trenchless, LLC  
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Sewer, Culvert and Water UV Cured lining systems installation Contractor. Covering N.Y. and Northeastern U.S. Providing complete solutions to lining problems, from line inspection to CCTV testing, to all sizes of pipe/culvert lining.

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Pump Systems Inc.  
**Booth #486**

Contact: John Benham, 217 South Main Street, Franklin, NH 03235, tel: (603) 934-7100, jbenham@pumpsystemsinc.com, www.pumpsystemsinc.com
Purafil  Booth #401-409
Manufacturers of dry chemical and biological scrubbers for odor control, emergency chlorine scrubbers, control room odor, control and corrosion protection for electronic equipment.
Contact: Don Apking, 2654 Weaver Way, Doraville, GA 30340, tel: (770) 662-8545, dapking@purafil.com, www.purafil.com, F. R Mahoney & Associates

Pure Technologies  Booth #214
Pure Technologies is a world leader in the development and application of innovative technologies for inspection, monitoring and management of water and wastewater networks.
Contact: David Smith, 3040 Route 22 West Suite 130, Branchburg, New Jersey 08876, tel: (908) 526-4437, david.smith@puretechltd.com, www.puretechltd.com

Quality Control Equipment Co.  Booth #454
Automatic portable & refrigerated sampling devices. At the heart of every QCEC wastewater sampler is vacuum technology that delivers accurate samples every time… for a long time. NO PERISTALTIC PUMP TO MAINTAIN.
Manufacturing Representative: Russell Resources, Inc.

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R.I. Analytical Laboratories Inc.  Booth #145
R.I. Analytical is a quality full service environmental laboratory in New England who specializes in the analytical testing of soils, sludge, drinking water and waste water.
Contact: Derek Lonczak, 41 Illinois Ave, Warwick, RI 02067, tel: (401) 737-8500, dlonczak@rianalytical.com, www.rianalytical.com

Rain for Rent  Booth #451
Rain for Rent combines rental pumps, pipe, tanks, and filtration systems into innovative solutions for temporary liquid handling projects. We offer engineering and on-site personnel 24/7, 365 days a year.
Contact: Greg Pray, 9 Pioneer Drive, North Oxford, MA 01537, tel: (508) 987-0042, sales@rainforrent.com, www.rainforrent.com

RITEC Environmental  Booth #458
Rite Environmental is a major New England supplier of chemical feed and polymer systems, process automation, wireless networks and water quality analyzers. Representing Siemens, ATI, GE, UGSI, Wallace & Tiernan Chemfeed, Force Flow and Metso TS.
Contact: Pete Williams, PO Box 514, East Boothbay, ME 04544, tel: (207) 633-3111, pete.williams@ritec.com, www.ritec.com, David F. Sullivan & Associates, Inc.

Rockwell Automation  Booth #206
Rockwell Automation: World’s Largest Industrial Automation Company
The company’s main products help make its customers more productive and include Allen-Bradley and Rockwell Software brands.
Contact: Michael Quirk, 100 Nickerson rd, Marlboro, MA 01752, tel: (508) 817-6346, MQQuirk@ra.rockwell.com, rockwellautomation.com

Ross Valve Mfg. Co.  Booth #488
Since 1879, Ross Valve has designed and manufactured rugged automatic piston & diaphragm type control valves of the highest quality. Specialties include: anti-cavitation, energy dissipation, pressure reduction, and flow control valves, and complete valve vaults. Proudly made in USA.
Contact: Andy Ross, PO Box 595, Troy, NY 12181, tel: (518) 274-0961, sales@rossvalve.com, www.rossvalve.com, Atlantic Fluid Technology, Inc.

Rotork Controls, Inc.  Booth #189, 190, 191, 192
The world’s leading manufacturer of electric, pneumatic, and hydraulic valve actuators and associated control systems, gearboxes, and valve accessories. Rotork provides full service and support through our local factory, factory technicians, and representatives.
Contact: Tapan Mody, 22 Pinewood Road, Hudson, NH 03051, tel: (603) 781-8904, tapan.mody@rotork.com, www.rotork.com, The Wise Company

Russell Resources, Inc.  Booth #454-456, 464-466
Manufacturer representatives for treatment, pumping, measuring and analytical equipment for water and wastewater community, municipal, and industrial.
Contact: James Russell, PO Box 3276, Brewer, ME 04412, tel: (207) 989-0591, jrussell@r-r-inc.com, www.r-r-inc.com

s:can Measuring Systems LLC  Booth #433, 434
s:can is the world technology leader for submersible on-line UV-Vis spectrophotometer probes and provides monitoring systems and software for drinking, environmental, waste, and industrial water applications.
Contact: Bob Osnoe, 1035 Cambridge Street Suite 1, Cambridge, MA 02139, tel: (888) 694-3230, SALES@s-can.us, www.s-can.us, POND Technical Sales, Inc.

Safety, Inc.  Booth #420
Distributor and service center for safety equipment and instrumentation. Featuring the Draeger portable and fixed gas detection products. Draeger’s patented sensor technology has 2-3 times the life span of all other brands of gas detection sensors.
Contact: Joel Myerson, 119 Foster Street, Peabody, MA 01960, tel: (978) 532-7330, sales@esafetyinc.com, www.esafetyinc.com

Sanitaire - Xylem Water Solutions USA, Inc.  Booth #155
Sanitaire, A Xylem Brand, offers ceramic and membrane fine bubble aeration, SBR advanced biological treatment systems, BioLoop oxidation ditches, OSCAR plant-wide control systems and tertiary DrumFilters. Xylem is a global water leader in all stages of the water cycle, including transport, treatment, testing and analysis.

Smith & Loveless  Booth #465
Smith & Loveless’ energy-efficient wastewater treatment systems, including fixed-film and MBRs, grit removal systems and packaged pump stations deliver reliable performance with unrivaled life cycle cost savings. Significant experience throughout New England with hundreds of installations.
Contact: Isaiah LaRue, 14040 Santa Fe Trail Drive, Lenexa, KS 66214, tel: (207)989-0591, answers@smithandloveless.com, www.smithandloveless.com, Russell Resources, Inc.

Spartan Tool LLC  Booth #149
Contact: John Face, 1506 West Division Street, Mendota, IL 61342, tel: (800) 435-3866, jface@spartantool.com, www.spartantool.com

SPIRAC USA INC.  Booth #155
SPIRAC - World leader in biosolids and sludge handling systems. Receiving, conveying, storing, and outfitting.
Contact: Jill McCusker, 75 Jackson Street, Suite 300, Newnan, GA 30263, tel: (770) 632-9833, jill.mccusker@spirac.com, www.spirac.com, The MAHER Corporation

Sprayroq, Inc.  Booth #196
Sprayroq is both the developer and manufacturer of fast curing, structural and chemical resistant, spray-applied polyurethanes used to rehabilitate and protect infrastructure.
Contact: John Dickson, 248 Cahaba Valley Pkwy, Pelham, AL 35124, tel: (205) 957-0020, jgordon@sprayroq.com, www.sprayroq.com
SPX FLOW, Inc. - Lightnin  Booth #401-409
With over 90 years of unrivaled experience in mixing technology, process knowledge, and technical innovations, Lightnin enjoys a global reputation for durable, long-lasting mixers, agitators, aerators, flocculators, and impeller designs for fluid processing systems. We offer a worldwide service network, mixer repair, gearbox repair, and replacement parts program.

SSI Aeration, Inc.  Booth #410-413, 473, 474, 481, 482, 489, 490

Stacy DePasquale Engineering, Inc. (SDE)  Booth #444
Stacy DePasquale Engineering, Inc. has provided environmental field services, design and construction oversight for wastewater & stormwater related projects for numerous private and public clients since 1999.
Contact: Stacy DePasquale, 354 Merrimack Street, Ste 200, Lawrence, MA 01843, tel: (978) 975-0500, sdepasquale@sde-inc.com, www.sde-inc.com

Stantec (BRONZE SPONSOR)  Booth #147
Fay, Spofford & Thorndike has joined Stantec; an engineering, design, and consulting firm with 15,000 Creative Team members across the globe. Come visit us at Booth #147.
Contact: Meredith Zona, 5 Burlington Woods, Burlington, MA 01803, tel: (781) 221-1000, meredith.zona@stantec.com, www.stantec.com

Statewide Aquastore, Inc.  Booth #441
Statewide Aquastore Inc. is a provider of Aquastore glass-fused-to-steel storage tanks. They are used for ground storage, standpipe or composite elevated designs. Applications involve the storage of potable water, wastewater, sludge, trickling filters, SBRs, wastewater treatment, methane recovery, industrial waste, and many other applications that require storage.
Contact: Harry Hagan, 6010 Drott Drive, East Syracuse, NY 13057, tel: (315) 433-2782, hhagan@besttank.com, www.besttank.com

SUEZ (SILVER SPONSOR)  Booth #180
SUEZ in North America owns regulated water utilities, provides contracted public-private water and wastewater services to municipalities, offers advanced network solutions, and processes tons of waste.

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Synagro is the nation's leader in biosolids and organic residuals management with customers in over 38 states and in Canada. Synagro's services include: Incineration, Composting, Pelletizing, Lagoon Cleaning/Dredging, Alum Sludge Beneficial Use, Raw Services and Digestion Cleaning.
Contact: Pat Primkoski, 680 Main Street, Ste 303, Watertown, CT 06795, tel: (860) 274-1710, primkoski@synagro.com, www.synagro.com

TcTech/Boyson New England  Booth #497, 498, 499
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Contact: Brian Boyson, 175 Harvest Lane, Bridgewater, MA 02324, tel: (508)889-6371, bbo5807254@aol.com, www.wastewaterequipmentboyson.com

People - Technology - Results: Founded in 1977, we specialize in water, wastewater, utility and process industries. We pride ourselves in representing manufacturers that are not only the leaders in the industry, but also share the same commitment to excellence in meeting the needs of our customers.
Contact: Marina Giovannoni, 44 Central Street, Berlin, MA 01503, tel: (978) 838-9998, mgiavannoni@techsalesene.com, www.techsalesene.com

Ted Berry Company, Inc.  Booth #137
The Ted Berry Company was founded in 1972 by Ted Berry. Today the business is still family-owned and operated and provides services to both municipalities and industry throughout New England. The company operates a number of service groups.
Contact: Peter Goodwin, 521 Federal Road, Livermore, ME 03090, tel: (207) 897-3348, peter.goodwin@tedberrycompany.com, www.tedberrycompany.com

The MAHER Corporation (GOLD SPONSOR)  Booth #152-158, 182
Please visit the following companies in booths 152-158 & 182: EIM, Singer Valve, Sutra, Waco, Trojan Technologies, Parkson, Sanitary, Watson Marlow, ClearStream, Nova Water, Biorem, Boerger, Brentwood Industries and Lakeside Equipment.
Contact: Peter Kibble, 192 Pleasant Street, Rockland, ME 02370, tel: (781)421-2600, pkibble@themahercorp.com, www.themahercorp.com

The Wise Company  Booth #189-192

Thermal Process Systems, Inc.  Booth #456
Thermal Process Systems was founded by experienced wastewater treatment professionals who understand firsthand the complex issues of bio-solids processing and re-use. The result of their collaboration is the proprietary ThermAer process, which has been rigorously tested since 1995, and has exceeded every customer expectation. In addition ThermAer, Thermal Processing Systems has also established relationships with the most respected equipment manufacturers in the industry today. It is an unmatched combination, offering you complete systems integration, from retrofit to ground up installation and control.
Contact: Kevin Station, 627 East 110th Ave, Crown Point, IN 46307, tel: (219) 663-1034, info@thermalprocess.com, www.thermalprocess.com, Russell Resources, Inc.

Thompson Pipe Group - Flowtite  Booth #200
U.S. owned, Thompson Pipe Group engineers, manufactures, and delivers corrosion-resistant FLOWTITE® FRP for pressure and wastewater applications. FLOWTITE® does not require linings, coatings, wraps or cathodic protection.
Contact: Hillary Ham, 18585 Samuels Rd, Zachary, LA 70791, tel: (225) 658-6166, hham@thompsonpipegroup.com, www.thompsonpipegroup.com

Trelleborg Pipe Seals Milford Inc.  Booth #457
Market leader - Based in New England, manufacturer of equipment and materials for pipeline maintenance and rehabilitation, including pipe plugs for flow control & pressure testing, mechanical seals, point repair and CIPP technology.
Contact: Gregg Conklin, 250 Elm Street, PO Box 301, Milford, NH 03055, tel: (800) 626-2180, gregg.conklin@trelleborg.com, www.trelleborg.com, www.trelleborg.com/pipe-seals

Trident Actuators  Booth #495
Manufacturer of self-contained electro-hydraulic actuators for gates and valves used in the water and wastewater industry. Features include Fail-Safe, submersible, Explosion Proof, and routine maintenance free.
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TrojanUV  Booth #153
TrojanUV designs, manufactures, and sells pressurized and open-channel UV disinfection systems for municipal wastewater and drinking water, and UV-oxidation systems for environmental contaminant treatment applications.
Contact: Una Duncan, 3020 Gore Road, London, Ontario N5V 4T7, tel: (519)457-3400, info@trojanuv.com, trojanuv.com, THE MAHER CORPORATION
Truax Corporation
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Trumbull Industries
Booth #194
Manufacturer of products for water & wastewater market, including tools, valves & accessories, valve position indicators, miter gears, floorstands, polymer manhole & water meter lids, products for corrosive soils.

United Concrete Products
Booth #170
United Concrete Products offers a complete line of precast concrete products along with prefabricated pump stations and prefabricated concrete buildings to be used for the generator, restroom, storage and concession stands.
Contact: Dave Topia, 173 Church Street, Yalesville, CT 06492, tel: (203) 269-3119, dtopia@unitedconcrete.com, www.unitedconcrete.com

WACO Products, Inc.
Booth #153
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Booth #401-409
Walker: Since 1946, Walker Process has been solely dedicated to designing and manufacturing equipment for the Water and Wastewater Industry at our facility in Aurora, IL. We offer proven municipal technologies for biological treatment, anaerobic treatment, wastewater clarification, digestion, separation, and sludge treatment. We offer standard and custom solutions for efficient solids-liquid separation.
Contact: Jeff Thomas, 840 N. Russell Ave., Aurora, IL 60506, tel: (630) 264-5213, jthomas@walker-process.com, www.walker-process.com, F. R. Mahony & Associates

Water & Waste Equipment Inc.
Booth #140
Water Resource Technologies is a distributor of wastewater pumps and related equipment. We specialize in the design and operation of Pressure Sewer Systems. Call to see how we can help you today!
Contact: Todd Peluso, 11221 St Johns Industrial Pkwy North, Jacksonville, FL 32246, tel: (973) 903-7169, tpeluso@wrtllc.com, www.wrtllc.com

Watson-Marlow Pumps Group
Booth #152-158, 182
Watson-Marlow peristaltic tube pumps and Bredel hose pumps provide minimal shear combined with high levels of volumetric accuracy. Our pumps are highly accurate, self-priming, dry running and eliminate the need for ancillary equipment.
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Weir Specialty Pumps (WEMCO)
Booth #410-413 & 473-474 & 481-482 & 489-490
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Wescor Associates, Inc.
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Manufacturer’s Representative for over 35 years. Representing leading companies in the water and wastewater fields: Process Equipment-Blowers, Clarifiers, Chemical Feed, Screens, Grit, Odor, Pumping, Liquid/Solids Separation, and residual applications.
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Vortex Infrastructure Products
Booth B
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United Concrete Products
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Wastecorp designs and engineers our products in North America with a focus on quality, energy savings, and a goal to lower emissions. Plunger Pumps, Diaphragm Pumps, Disc Pumps, Trash Pumps, and various pump parts.
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Veolia Water Technologies has been offering the North American market the John Meunier line of headworks products as well as the Hydrovex line of stormwater management equipment. We design, manufacture, and service wastewater treatment plants.
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VEO Watertechnologies Booth #401
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Vogelsang
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Heavy sludge pumping and grinding products. Rotary lobe pumps, inline rotary macerators, and town shaft grinders for viscous sludge containing heavy solids, abrasives, and caustics.
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Vulcan Industries, Inc.
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Wescor Associates, Inc.
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<th>Company</th>
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<td><strong>Whipps, Inc.</strong>&lt;br&gt;Made in the USA. Whipps, Inc. manufactures high performance, low leakage, Stainless Steel and aluminum Slide Gates and Stop Logs since 1977.&lt;br&gt;Contact: Ron Niedzwiecki, 370 South Athol Rd, PO Box 1058, Athol, MA 01331, tel: (978) 249-7924, <a href="mailto:ran@whipps.com">ran@whipps.com</a>, <a href="http://www.whipps.com">www.whipps.com</a>, Atlantic Fluid Technology, Inc.</td>
<td><strong>#164</strong></td>
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<td><strong>WhiteWater, Inc.</strong>&lt;br&gt;Wastewater treatment and conveyance including operations, management, influent and effluent sampling, preventative maintenance programs, chemical treatment systems, pump station maintenance, regulatory reporting, and inspection services.&lt;br&gt;Contact: Marcus Thompson, 2538 Worcester Road, Charlton, MA 01507, tel: (888)377-7678, <a href="mailto:mthompson@rhwhite.com">mthompson@rhwhite.com</a>, <a href="http://www.whitewateronline.com">www.whitewateronline.com</a></td>
<td><strong>#106</strong></td>
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<td><strong>Wilo - EMU Pumps &amp; Mixers</strong>&lt;br&gt;After market coverage by rep, Mechanical Solutions, Inc., for submersible and dry pit sewage pumps with high efficiency German engineering. Submersible mixers for denitrification with extended warranties.&lt;br&gt;Contact: Harold Adams, 86 Genesis Parkway, Thomasville, GA 31792, tel: (866) WILO-USA, <a href="mailto:harold.adams@wilo-usa.com">harold.adams@wilo-usa.com</a>, <a href="http://www.wilo-usa.com">www.wilo-usa.com</a>, Mechanical Solutions, Inc.</td>
<td><strong>#102-104</strong></td>
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<td><strong>WILO-EMU</strong>&lt;br&gt;Design of submersible mixers for denitrification processes in wastewater. Pumps, both submersible &amp; dry pit types for pump stations in wastewater applications. WILO can provide extended warranties and all equipment can be price competitive.&lt;br&gt;Contact: Rick Nash, 86 Genesis Parkway, Thomasville, GA 31792, tel: (866) WILO-USA, <a href="mailto:rick.nash@wilo-usa.com">rick.nash@wilo-usa.com</a>, <a href="http://www.wilo-usa.com">www.wilo-usa.com</a>, Wescor Associates, Inc.</td>
<td><strong>#410-413 &amp; #474 &amp; #481-482 &amp; #489-490</strong></td>
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<td><strong>Woodard &amp; Curran (SILVER SPONSOR)</strong>&lt;br&gt;Woodard &amp; Curran is an 800-person, integrated engineering, science, and operations company. Privately held and steadily growing, we serve public and private clients locally and nationwide. From our environmental roots to the range of consulting, engineering, and operations expertise we provide today, we work for a diverse clientele - including municipalities, industry, colleges and universities, the real estate community, and food and beverage manufacturers.&lt;br&gt;Contact: Leroy Kendricks, 33 Broad Street Floor 7, Providence, RI 02903, tel: (401) 273-1007, <a href="mailto:lkendricks@woodardcurran.com">lkendricks@woodardcurran.com</a>, <a href="http://www.woodardcurran.com">www.woodardcurran.com</a></td>
<td><strong>#450</strong></td>
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<tr>
<td><strong>Xylem Dewatering Solutions, Inc. - d.b.a. Godwin Pumps of America</strong>&lt;br&gt;With more than 100 years as the industry leader in pump manufacturing, Godwin provides an innovative approach to pump manufacturing, rental, sales, and service. We design, manufacture, service, sell and rent products that are efficient, reliable, and targeted to the specific needs of our customers. Godwin's rental fleet, world-class application engineering, and proven 24/7 service and support are ready to meet your emergency pumping needs.&lt;br&gt;Contact: Tom Malone, 99 Stockhouse Rd, Bozrah, CT 06334, tel: (860) 889-2343, <a href="mailto:tom.malone@xyleminc.com">tom.malone@xyleminc.com</a>, <a href="http://www.xylem.com/dewatering/us/brands/godwin">www.xylem.com/dewatering/us/brands/godwin</a></td>
<td><strong>#160</strong></td>
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<td><strong>Zoeller Engineered Products</strong>&lt;br&gt;Robust American made submersible pumps for the municipal industry. Solids handling pumps with vortex impellers and reversing grinder pumps are two types that perform well in collection system pumping stations.&lt;br&gt;Contact: Steve Doolittle, 3649 Cane Run Road, Louisville, KY 40214, tel: (800) 928-7867, <a href="mailto:steved@zoeller.com">steved@zoeller.com</a>, <a href="http://www.zoellerengprod.com">www.zoellerengprod.com</a></td>
<td><strong>#198</strong></td>
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EXHIBITION HOURS
Monday: 10:30 AM – 6:30 PM
Tuesday: 8:00 AM – 6:00 PM
Wednesday: 8:00 AM – 1:00 PM

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

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

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

Meeting Room and Exhibit Locations

### 3rd Floor
- Exhibits
- Exhibit Booths #101–217
- Back Bay Exhibit Hall
- Back Bay Foyer Area

**Meeting/Session Rooms**
- Arlington*
- Berkeley*
- Boston University
- Brandeis
- Clarendon*
- Dartmouth*
- Exeter*
- Fairfield*
- Harvard
- Northeastern
- Regis
- Simmons
- Suffolk
- Tufts
- Wellesley

*Located inside Back Bay Exhibit Area

### 4th Floor
- Exhibits
- Exhibit Booths #401–506
- Salons F thru K and Foyer
- Poster Sessions (Tuesday)

**Meeting/Session Rooms**
- Salons A thru E
- Hyannis
- Nantucket
- Orleans
- Provincetown
- Vineyard
- Yarmouth
- Falmouth

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

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