New England Water Environment Association Presents:

SYSTEMS GO

NEWEA 2015 Annual Conference & Exhibit

January 25 – 28
Boston Marriott Copley Place
Boston, MA
**NEWMA 2015 Annual Conference & Exhibit**

**Final Program**

**Schedule-at-a-Glance**

<table>
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<th>Monday Jan. 26</th>
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**REGISTRATION — 4TH FLOOR**

- REGISTRATION — 4TH FLOOR
- EXHIBIT HALL SET-UP
- EXECUTIVE COMMITTEE MEETING
- NEW COMMITTEE CHAIR ORIENTATION
- REGISTRATION — 4TH FLOOR
- EXHIBIT HALL RECEPTION
- SSSS SHOVELERS’ LUNCH
- YOUNG PROFESSIONALS OUTREACH
- PROFESSIONAL POSTER BOARD DISPLAYS
- CONTINENTAL BREAKFAST
- BUSINESS MEETING
- EXHIBIT HALL GRAND OPENING (3RD & 4TH FLOOR EXHIBIT AREA OPEN)
- OPENING SESSION
- TECHNICAL SESSIONS 1 – 6
  - 1. Sustainable Nutrient Removal
  - 2. Next Treatment Challenges
  - 3. CSOs
  - 4. Energy Optimization
  - 5. Sustainability I
  - 6. Stormwater I
- TECHNICAL SESSIONS 7 – 12
  - 7. Emerging Technologies
  - 8. Regulatory News
  - 9. Residuals I
  - 10. Stormwater II
  - 11. Small Communities—Regulatory Issues
  - 12. Asset Management I
- TECHNICAL SESSIONS 13 – 18
  - 13. Revolutionizing Training
  - 14. Water for People
  - 15. Instrumentation and Automation
  - 16. Plant Operations I
  - 17. Collection Systems I
  - 18. Stormwater III
- TECHNICAL SESSIONS 19 – 24
  - 19. Process Monitoring and Control
  - 20. Utility Management I / Sustainability II
  - 21. Plant Operations II
  - 22. Watershed Management—Nutrients
  - 23. Operator Ingenuity
  - 24. Collection Systems II
- TECHNICAL SESSIONS 25 – 29
  - 25. Managing Stormwater Assets
  - 26. Utility Management II
  - 27. CSO II
  - 28. Plant Operations III
  - 29. Public Education Award Success
- TECHNICAL SESSIONS 30 – 33
  - 30. Infrastructure Resiliency
  - 31. Asset Management II
  - 32. Residuals II / Sustainability III
  - 33. Collection Systems III

**KEY**

- 3rd floor rooms are Colleges, Universities, and Boston Streets.
- 4th floor rooms are salons and Cape Cod Towns.
## Sunday, January 25, 2015

<table>
<thead>
<tr>
<th>Event</th>
<th>Location</th>
<th>Time</th>
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<tbody>
<tr>
<td>New Committee Chair/Council Director Orientation</td>
<td>Salon A/B</td>
<td>11:30 AM</td>
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<tr>
<td>Treatment, Systems Operations, &amp; Mgmt Council</td>
<td>Orleans</td>
<td>Noon</td>
</tr>
<tr>
<td>Executive Committee</td>
<td>Salon E</td>
<td>1:00 PM</td>
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## Monday, January 26, 2015

<table>
<thead>
<tr>
<th>Event</th>
<th>Location</th>
<th>Time</th>
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<tbody>
<tr>
<td>Journal Committee</td>
<td>Nantucket</td>
<td>8:00 AM</td>
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<tr>
<td>NEWEA Annual Business Meeting</td>
<td>Vineyard</td>
<td>8:00 AM</td>
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<tr>
<td>Awards Committee</td>
<td>Falmouth</td>
<td>8:30 AM</td>
</tr>
<tr>
<td>Plant Operations Committee</td>
<td>Orleans</td>
<td>9:00 AM</td>
</tr>
<tr>
<td>Utility Management Committee</td>
<td>MIT</td>
<td>10:30 AM</td>
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<tr>
<td>Young Professionals Lounge</td>
<td>Vineyard</td>
<td>11:00 AM</td>
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<tr>
<td>Website Committee</td>
<td>Nantucket</td>
<td>11:00 AM</td>
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<tr>
<td>Operations Challenge Committee</td>
<td>Hyannis</td>
<td>11:00 AM</td>
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<tr>
<td>Select Society of Sanitary Sludge Shovelers (by invite)</td>
<td>Exeter/Dartmouth</td>
<td>Noon</td>
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<tr>
<td>Stormwater Committee</td>
<td>Berkeley</td>
<td>Noon</td>
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<tr>
<td>Water Reuse &amp; Industrial Wastewater Joint Committee</td>
<td>Champions</td>
<td>Noon</td>
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<tr>
<td>Energy Committee</td>
<td>Harvard</td>
<td>Noon</td>
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<tr>
<td>Affiliated State Association Meeting</td>
<td>Clarendon</td>
<td>2:00 PM</td>
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<tr>
<td>Volunteer Committee Fair</td>
<td>Salon E</td>
<td>2:30 PM</td>
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<tr>
<td>Government Affairs Committee</td>
<td>Harvard</td>
<td>3:30 PM</td>
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<tr>
<td>Sustainability Committee</td>
<td>Champions</td>
<td>4:00 PM</td>
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<tr>
<td>CSO/Wet Weather Committee</td>
<td>Orleans</td>
<td>4:30 PM</td>
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<tr>
<td>Public Education Committee</td>
<td>Champions</td>
<td>4:30 PM</td>
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## Tuesday, January 27, 2015

<table>
<thead>
<tr>
<th>Event</th>
<th>Location</th>
<th>Time</th>
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<tbody>
<tr>
<td>Presidents’ Breakfast (by Invitation)</td>
<td>Champions</td>
<td>8:00 AM</td>
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<tr>
<td>Volunteer Committee Fair</td>
<td>Salon E</td>
<td>9:30 AM</td>
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<tr>
<td>Laboratory Practices Committee</td>
<td>Champions</td>
<td>11:00 AM</td>
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<tr>
<td>Program Committee</td>
<td>Champions</td>
<td>Noon</td>
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<tr>
<td>Public Awareness Committee</td>
<td>Champions</td>
<td>Noon</td>
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<tr>
<td>Safety Committee</td>
<td>Champions</td>
<td>Noon</td>
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<tr>
<td>Collection Systems Committee</td>
<td>St. Botolph’s</td>
<td>Noon</td>
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<tr>
<td>Operators’ Reception (sponsored by ASAs)</td>
<td>Berkeley</td>
<td>Noon</td>
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<tr>
<td>Residuals Management Committee</td>
<td>Champions</td>
<td>Noon</td>
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<tr>
<td>Information Technology &amp; Automation Committee</td>
<td>Nantucket</td>
<td>1:30 PM</td>
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<tr>
<td>Membership Committee</td>
<td>Orleans</td>
<td>2:00 PM</td>
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<tr>
<td>MAOWP Board</td>
<td>Hyannis</td>
<td>2:00 PM</td>
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<tr>
<td>NEWEA/NEWWA/NEAPWA Leaders</td>
<td>Clarendon</td>
<td>2:00 PM</td>
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<tr>
<td>Project Delivery Alternatives Committee</td>
<td>Nantucket</td>
<td>4:30 PM</td>
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## Wednesday, January 28, 2015

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<tr>
<th>Event</th>
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<th>Time</th>
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<tbody>
<tr>
<td>WERF Sponsors Breakfast (by Invitation)</td>
<td>Vineyard</td>
<td>7:30 AM</td>
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<tr>
<td>Photo Ready Room</td>
<td>Orleans</td>
<td>9:00 AM</td>
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<tr>
<td>Award Ceremony &amp; Lunch</td>
<td>Salon E</td>
<td>11:00 AM</td>
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### Speaker Breakfast-Ready Room (M, T, W)

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<tr>
<th>Event</th>
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<tr>
<td>Speaker Breakfast-Ready Room (M, T, W)</td>
<td>Hyannis</td>
<td>7:30 AM</td>
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Welcome to the premier water event in New England—the NEWEA 2015 Annual Conference and Exhibit. This event draws some 2200 professional attendees, and this year we offer 33 technical sessions, numerous poster sessions (including an adjudicated competition among some of our promising young student members), over 200 exhibitors of cutting edge equipment and services, and more. This year’s theme is SYSTEMS>GO, and our dynamic conference promises to provide ample opportunity to learn, network and catch up with old friends. 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. Also, take a moment to review the other events such as exhibit hall receptions, special features, and committee meetings. I encourage you to attend a committee meeting in your area of interest, as it is a great way to meet other industry leaders in New England with the same interests. It is just another way to get the most out of this annual event.

We have several special guest speakers who will provide a national perspective and an opportunity to compare and contrast the challenges we face here in New England with those in other areas. On Monday, we are honored to have Senator William “Mo” Cowan, Senior Vice President and Chief Operating Officer of ML Strategies as our featured speaker. WEF Vice President Rick Warner will also offer his insight on current WEF initiatives as part of the Opening Session. Their attendance also gives us the opportunity to showcase our leadership in New England. In addition, this year we will once again have our Operator Ingenuity session, and, of course, our annual awards ceremony recognizing outstanding efforts in our industry.

I want to thank the many NEWEA Committees that have put in the time and energy to make this an industry-leading event. Special thanks are due to the Program, Sponsorship, Registration, Exhibits and Awards Committees, and particularly to Meg Tabacsko, Sue Guswa and Ron Tiberi. Also, sincere thanks to Mary Barry, Linda Austin and Janice Moran, from the NEWEA office, for without their energy and expertise this event would be nearly impossible to pull off.

I sincerely hope that you take advantage of all this Annual 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, all ways that this event helps us to be better prepared to face the challenges we have in protecting public health and the environment.

Bradley Moore
2014 NEWEA President

Cover Photo:
Alex L. Buechner
Lab Coordinator/Operator
Biddeford, ME
NEWEA 2013 EXECUTIVE COMMITTEE

President Bradley Moore
President Elect Matthew Formica
Vice President Raymond Willis III
Treasurer Frank Occhipinti
Past President (Management Review) Michael Bonomo
Communications Council Director James Barsanti
Meeting Management Director Meg Tabacsko
Secretary Gerald Potamis
Executive Director Mary Barry

WEF Delegate (10/11) Jennifer Lachmayr
WEF Delegate (10/12) Howard Carter
WEF Delegate (10/13) Michael Wilson
WEF Delegate (10/14) Daniel Bisson

Directors
Connecticut Jay Sheehan
Maine Peter Goodwin
Massachusetts Michael Moreau
New Hampshire Frederick McNell
Rhode Island Janine Burke
Vermont Robert Fischer

Collection Systems/Water Resource Council Virgil Lloyd
Outreach Council Thomas Groves
Treatment, Systems Operations and Management Council Priscilla Bloomfield

NEWEA 2013 COUNCILS

Vice President Council (Ad Hoc Committees)
Information Technology & Automation Committee* James Spitzer
Public Awareness Committee* Jennifer Lachmayr
Utility Council Committee* F. Adam Yanulis

Past President Council (Administrative Committees)
Assessment and Development Committee Deborah Mahoney
Awards Committee Charles Applebee
Bylaws Committee James Pappas
Committee Member Appreciation Committee Daniel Roop
Nominating Committee Roger Janson
Sponsor Committee Paul Casey

Meeting Management Council
Conference Arrangements Committee Ronald Tiberi
Exhibits Committee Amy Anderson
Manufacturers’ Representative Committee James DeLuca
Program Committee Susan Guswa
Registration Committee Katelyn Biedron
Communications Council
Journal Committee Helen Gordon
Media Relations Committee TBD
Newsletter Committee Geraldine Ciardelli
Website Committee* Benjamin Mosher

Treatment, System 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 Jonathan Keaney
Small Community Committee Jeff Gregg
Utility Management Committee Scott Firmin

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 Elizabeth Andrews
Stormwater Committee Virginia Roach
Sustainability Committee Elizabeth Watson
Water Reuse Committee Edward Whatley
Watershed Management Committee Philip Forzley

Outreach Council
Government Affairs Committee Peter Grose
Humanitarian Assistance & Grants Committee Tim Vivian
Membership Committee George Vercelli
Project Delivery Alternatives Committee Michael Curtis
Public Education Committee Elena Proakis Ellis
Safety Committee Shannon Eyler
Scholarships Committee Nicholas Schwartz
Student Activities Committee Annalisa Onnis-Hayden
Water for People Committee Jonathan Kunay
Young Professionals Committee Justin Skelly
* Ad hoc
Conference Events

SUNDAY, JANUARY 25

Registration – 4th Floor Noon–4:00 PM
Exhibit Hall Set-Up Noon–6:00 PM
New Committee Chair Orientation – Salon A/B 11:30 AM–1:00 PM
Executive Committee Meeting – Salon E 1:00–4:00 PM

MONDAY, JANUARY 26

Registration – 4th Floor 7:00 AM–6:00 PM
Speakers’ Breakfast – Hyannis 7:30–8:30 AM
Coffee and Continental Breakfast 7:30–9:00 AM
NEWEA Annual Business Meeting – Vineyard 8:00–8:30 AM
Welcome and Opening Remarks: Brad Moore, NEWEA President/City of Bangor, ME
Presentation and vote on 2015 Slate of NEWEA Officers.
See description on page 38
Technical Sessions 1–6 8:30–10:30 AM
See descriptions beginning on page 8
Exhibit Hall Grand Opening 10:30 AM
Amy Anderson, Exhibits Committee Chair; Brad Moore, NEWEA President
Grand Opening will take place at the main entrances of both the 3rd and 4th floor exhibit areas.
Exhibits 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. Exhibit directory and booth locations pages 40 – 64

TUESDAY, JANUARY 27

Registration – 4th Floor 7:00 AM–6:00 PM
Speakers’ Breakfast – Hyannis 7:30–8:30 AM
Guest Program – Regis (see description on page 39) 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 13–18 9:00–11:30 AM
See descriptions beginning on page 14
Graduate Student Technical Session 1 – Dartmouth 9:00–11:30 AM
College Student Poster Board Competition – 4th Floor 9:00 AM–3:30 PM
Coordinator: Thomas Groves, NEIWPCC
Session with authors: 12:30–2:00 PM
Exhibit Hall Break 10:00–10:30 AM
Operator’s Reception – Berkeley 10:00–10:30 AM
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 19–24 1:30–4:00 PM
See descriptions beginning on page 17
Graduate Student Technical Session 2 – Dartmouth 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

MONDAY, JANUARY 26 (CONTINUED)

Opening Session – Salon E (see description on page 7) 11:00 AM
Featured Speaker—U.S. Senator William “Mo” Cowan
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 – Exeter/Dartmouth
Young Professionals Outreach/Mentoring Program – Vineyard 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; George Vercelli, Veolia Water
Technical Sessions 7–12 2:00–4:30 PM
See descriptions beginning on page 11
Exhibit Hall Break 3:00–3:30 PM
Exhibit Hall Reception – 3rd Floor Exhibit Area 4:30–6:30 PM
WEDNESDAY, JANUARY 28

Registration – 4th Floor 7:30 AM–2:00 PM
Speakers’ Breakfast – Hyannis 7:30–8:30 AM
WERF Supporter Breakfast – Vineyard (by invitation) 7:30–8:30 AM
Exhibits 8:00 AM–1:00 PM
3rd and 4th Floor Exhibit Areas
Technical Sessions 25–29 8:30–11:00 AM
See descriptions beginning on page 20
Exhibit Hall Break 9:30–10:00 AM
Mr & Mrs Fish Presentation – 3rd Floor Atrium 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 30–33 1:00–3:00 PM
See descriptions beginning on page 23
Adjourn 3:00 PM

MONDAY, JANUARY 26

Opening Session

Moderator: Susan Guswa, NEWEA Program Committee, Tighe & Bond
Welcome: Brad Moore, NEWEA President, City of Bangor, ME
WEF Update: Rick Warner, PE., Vice President of WEF, Senior Engineer for the Washoe County Department of Water Resources, Reno, Nevada

FEATURED SPEAKER
U.S. Senator William “Mo” Cowan

U.S. Senator William “Mo” Cowan, Senior Vice President and Chief Operating Officer of ML Strategies, the government relations and strategic consulting affiliate of international law firm Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C., where the Senator is Of Counsel, will be the keynote speaker at the New England Water Environment Association’s (NEWEA) Annual Conference. NEWEA, first established in 1928, has been holding annual meetings to provide a forum for knowledge and technology exchange within the water field. Since then, the NEWEA Annual Conference has become New England’s largest water quality conference.

Senator Cowan returned to Mintz Levin in November 2013 following his tenure as interim U.S. Senator for the Commonwealth of Massachusetts, a seat Governor Patrick appointed him to fill after it was vacated by Secretary of State John F. Kerry. He previously served as Governor Patrick’s Chief Legal Counsel and, later, Chief of Staff and Senior Advisor. Prior to that, Senator Cowan was a Member in the Boston office of Mintz Levin where he represented a diverse array of commercial clients in business and regulatory matters.

As of this month, the U.S. Congress has a very different look, which will have potentially significant impacts on Water, Wastewater, the Environment and Infrastructure industries throughout the country. Senator Cowan will address the effects of a changing Congress from both national and regional perspectives, as he considers impacts on regulation, legislation, and funding.
Technical Sessions

MONTHLY TECHNICAL SESSIONS 1 – 6
8:30–10:30 AM

HOT TOPIC—SUSTAINABLE NUTRIENT REMOVAL
Moderators: James Barsanti, Town of Framingham, MA
Geraldine Ciardelli, City of Nashua, NH

Protecting Our Estuaries – Application of Permeable Reactive Barriers for Sustainable Nitrate Removal
– Edward Sanderson, CDM Smith
Cannon Silver, CDM Smith
David Young, CDM Smith
Jerry Potamis, Town of Falmouth, MA

Extractive Nutrient Recovery as a Sustainable Nutrient Control Alternative
– Wendell Khunjar, Hazen and Sawyer
Sam Jeyanayagam, CH2M HILL
Ron Latimer, Hazen and Sawyer

Redefining Being Green: Upper Blackstone Pilots Advanced Biological Nutrient Recovery with Algae
– Alexandra Doody, CDM Smith
Jane Madden, CDM Smith
Mark Johnson, Upper Blackstone WPAD
Karla Sangrey, Upper Blackstone WPAD
Rick Johnson, Clearas Water Recovery

REUSE/INDUSTRIAL WASTEWATER/MICROCONSTITUENTS— TACKLING THE NEXT GENERATION OF TREATMENT CHALLENGES
Moderators: Brian Braginton-Smith, Lewis Bay Research Center
Meredith Zona, Fay, Spofford & Thorndike

Cost-Effective Industrial Water Reuse Yields Significant Reduction in Wastewater Discharge at a Manufacturing Plant in Peabody, MA
– Carl Wilcox, Woodard & Curran
Dan Watnick, City of Peabody, MA

Ozonation of Tris-2-Chloroethyl Phosphate (TCEP) in Water
– Michael Votutra, Tighe & Bond
John Bergendahl, Worcester Polytechnic Institute

Wet Testing and the Perils of Polymer
– Hugh Tozer, Woodard & Curran

An Overview of Perfluorinated and Polyfluorinated Alkyl Substances (PFAS): Chemistry, Fate, Behavior, and Regulatory Decisions
– Lauren Royer, Exponent

CSO I—I NNOVATIVE APPROACHES IN ADDRESSING REGULATORY WET WEATHER REQUIREMENTS
Moderators: James Drake, CDM Smith
Melissa Recos, BETA Group

Re-Evaluation of CSO Abatement Approach Saves Small Maine Community over $2 Million
– Steven Freedman, AECOM
Eric Lemont, AECOM
Daniel Marks, Hoyle, Tanner & Associates
Doug Clark, City of Gardner, ME

Blending and Wet Weather Developments—How to Address Wet Weather Flows to Eliminate CSOs and SSOs: Implementing the Iowa League Decision
– John Hall, Hall & Associates
Gary Cohen, Hall & Associates
Phil Rosenman, Hall & Associates

Mining the Flow Data for System Optimization
– Dingfang Liu, CH2M HILL
Vinta Varghese, CH2M HILL
Thomas Sgroi, Greater New Haven WPCA
Bruce Kirkland, Greater New Haven WPCA

Successful Implementation of CMOM and Modeling Identifies a Hartford Capacity Restriction
– Brian Pitta, CDM Smith
Michael O’Brien, The MDC

ENERGY—POSITIVE ENERGY— FROM OPTIMIZATION TO NEW TECHNOLOGY
Moderators: Cynthia Castellon, Tighe & Bond
David Van Hoven, MWH Global

Heating and Cooling Energy from Wastewater
– Chris Hubbard, Huber Technology, Inc.

The Real Efficiency of Your Pumps
– Jennifer Muir, JK Muir
Jessica Dzwonkoski, JK Muir

Saving Energy and Space with Turbo Blowers—Lessons from Two Projects
– Julia Gass, Black & Veatch
Peter Thomson, Black & Veatch
Mario Francucci, Black & Veatch
Michael Hanna, Black & Veatch

Sustainable BNR Process Aeration Design and Optimization
– Caitlin Hunt, NYC DEP
Jiren He, MWH Global
Alex Lopez, NYC DEP
Natalia Perez, NYC DEP
SUSTAINABILITY IS EVERYWHERE

Moderators: Helen Gordon, Woodard & Curran
J. Kenneth Maltese, Maltese & Associates

Regulatory and Permitting Frameworks for Source Separated Organics to Energy Facilities
– Steven Torres, Pannone Lopes Devereaux & West LLC
– Teno West, Pannone Lopes Devereaux & West LLC

Energy Markets, Procurement, Green and Sustainability Strategic Planning
– Jon Sorenson, Competitive Energy Services

A Fractal Approach to Reviewing Sustainable Infrastructure Projects
– Wayne Bates, Capaccio Environmental Engineering

Energy Neutrality as Defined by the Second Law of Thermodynamics
– Philip Pedros, AECOM

STORMWATER I—STORMWATER TOPICS DU JOUR—MS4S AND CLIMATE CHANGE IMPACTS

Moderators: Laurie Perkins, Wright-Pierce
Kerry Reed, Town of Framingham, MA

Moving Watershed Management into the Watershed
– Rahul Verma, Verma Engineering

MS-Four! Stormwater Management Retrofit Projects Provide Multiple Stakeholder Benefits at a Golf Course and Two Schools in Putnam County, NY in Addition to Watershed Protection
– Joseph Zongol, Weston & Sampson
– Carl Stone, Weston & Sampson

Lake Auburn—The Effect of Climate Drivers on Lake Water Quality
– Zachary Eichenwald, CDM Smith
– Mary Jane Dillingham, Auburn Water District/Lewiston Water Division
– Kenneth Wagner, Water Resource Services
– Bernadette Kolb, CDM Smith

MS4 Compliance: Common Threads (and opportunities) in New England Permits
– Aubrey Strause, Fuss & O’Neill, Inc.
– Erik Mas, Fuss & O’Neill, Inc.

HOT TOPIC—EMERGING TECHNOLOGIES

Moderators: Shelagh Connolly, RMI
Nick Tooker, Northeastern University

Heterogeneous Photocatalysis for the Degradation of Contaminants of Emerging Concern in Water
– Jose Ricardo Alvarez Corena, Worcester Polytechnic Institute
– John Bergendahl, Worcester Polytechnic Institute
– Fred Hart, Worcester Polytechnic Institute
– Robert Emerick, Stantec

The Future of BNR—Aerobic Granular Activated Sludge
– James Barnard, Black & Veatch
– Mark Steichen, Black & Veatch
– Ed Kobylinski, Black & Veatch
– Roland Jezek, Black & Veatch

Tapping Into That Dirty Water - Opportunities in Wastewater Energy Recovery (WWER)
– Anastasia Rudenko, GHD
– Marc Drainville, GHD

Ultrafiltration Membranes for Water Reuse Applications
– Kevin Phillips, Koch

BREAKING NEWS FROM THE REGULATORY COMMUNITY

Moderators: Jessica Cajigas, Comprehensive Environmental Inc.
Alan Slater, MassDEP

Massachusetts Regulatory Reform—O&M and I/I Updates
– David Ferris, MassDEP
– Kevin Brander, MassDEP

NH’s New Standards of Design and Construction for Sewerage and Wastewater Treatment Facilities
– Sharon Rivard, NH Department of Environmental Services

Updates on Innovative Nutrient Management Strategies in Connecticut
– Rowland Denny, CT Department of Energy and Environmental Protection

Updates and Initiatives of the EPA Region 1 NPDES Program
– David Webster, EPA Region 1, Water Permit Branch Chief
**RESIDUALS I—BIOSOLIDS A TO Z**

Session 9

- Moderators: Jonathan Keane, Brown and Caldwell
  - Elaine Sistaire, CDM Smith

**Impacts of New SSI Emissions Standard on Mattabassett District’s New FBI Design**

- Melissa Hamkins, Wright-Pierce
  - Brian Armet, The Mattabassett District

**Operational Challenges of Regional (Merchant) Residuals Processing Facilities**

- Jeff McBurnie, Casella Organics

**Mixing it Up at the MWRA’s Clinton, MA Wastewater Treatment Plant - Anaerobic Digester System**

- Denise Moberg, Fay, Spofford & Thorndike
  - Bob Gorham, MWRA
  - Peter DeFronzo, Fay, Spofford & Thorndike

**Innovative Sludge Dewatering System Saves the City “Time, Money and Headaches!”**

- Andy Morrill, Wright-Pierce
  - John Adie, City of Nashua, NH

**STORMWATER II—BALANCING THE GREY AND THE GREEN**

Session 10

  - Glenn Haas, Brown and Caldwell

**Stormwater Management Performance and Maintenance of a Permeable Interlocking Pavement System**

- James Houle, University of New Hampshire
  - Joseph Persechino, Tighe & Bond

**Norfolk Street Drainage Improvements in Walpole, MA**

- Dianne Velardocchia, CDM Smith
  - Margaret Walker, Town of Walpole, MA

**Assessing Performance of Advanced Rainwater Harvesting and Permeable Friction Course (PFC) Asphalt Overly at two Firehouses in DC for Water Quality Enhancement and Mitigation**

- Andrea Braga, Geosyntec Consultants
  - Erica Tillinghast, Geosyntec Consultants
  - Marcus Quigley, Geosyntec Consultants
  - Rebecca Stack, District Department of the Environment

**Threading a Pipe Through a Needle: Finding the Right Path for a New Drain along Retreat Ave**

- Shawn Lavoie, CDM Smith
  - Jason Waterbury, The MDC
  - James Drake, CDM Smith

**SMALL COMMUNITIES—REGULATORY ISSUES AND VARIOUS WAYS TO APPROACH THEM**

Session 11

- Moderators: Jeff Gregg, GHD
  - Mark Drainville, GHD

**Tools to Assist Cape Cod Communities Reach Sustainable Nitrogen Reduction Goals—Technologies Matrix and Adaptive Management Practices**

- Mark Owen, AECOM
  - Betsy Shreve, AECOM
  - Thomas Parece, AECOM
  - Paul Niedzwiecki, Cape Cod Commission
  - Kristy Sentori, Cape Cod Commission
  - Erin Perry, Cape Cod Commission
  - Scott Horsley, Horsley Witten Group

**You Want to Put What? Where?—Old Saybrook’s Decentralized Hybrid Approach for Their Shorefront Community**

- Kurt Mailman, Fuss & O’Neill, Inc.
  - Stephen Mongillo, Town of Old Saybrook, CT

**Downsizing a School’s Wastewater Treatment Facility to a More Cost Effective On-Site Recirculating Sand Filter Septic System**

- Michael Paulin, Weston & Sampson

**Planning for Resilient Infrastructure to Adapt to Climate Change—A Coastal Island Massachusetts Community Case Study**

- Karen Wong, GHD
  - Marc Drainville, GHD

**ASSET MANAGEMENT I**

**WHAT’S HOT IN ASSET MANAGEMENT**

Session 12

- Moderators: Gary Arthur, FRPI
  - John Jackman, Hoyle, Tanner & Associates

**Proven and Defensible Approach to Pump Station Condition Assessment helps BWSC Prioritize Expenditures**

- Mark Richards, Brown and Caldwell
  - Patrick Greeley, Boston Water and Sewer Commission
  - Robert Winn, Brown and Caldwell

**Planning for the Worst: Expanding the Risk Spectrum to Develop a Comprehensive Asset Management Plan**

- Laura Robinson, Kleinfelder

**Asset Management and Mobile GIS Data Collection Best Practices using iPads and Tablet Computers**

- Robert Musci, CDM Smith
  - Eric Pescatore, CDM Smith

**A Comprehensive Approach to Prioritizing Stormwater Infrastructure Improvements**

- Alan Davis, Hazen and Sawyer
  - Troy McPherson, Hazen and Sawyer
  - Will Von Ohlen, City of Virginia Beach, VA
Tuesday Technical Sessions 13 – 18
9:00–11:30 AM
Exhibit Hall Break 10:00–10:30 AM

HOT TOPIC—REVOLUTIONIZING TRAINING
Session 13
Moderators: David Van Hoven, MWH Global Provincetown
Jaclyn Harrison, NEIWPCC

Planning for the Future—Success Stories from New England Wastewater Management Programs (1 Hour)
– Thomas Groves, NEIWPCC
William Patenaude, RI DEM
Leeann Hanson, JETCC

Hands on State Point Training Illuminates Clarifier Operation
– Paul Dombrowski, Woodard & Curran

The Development of Operational Tools for City-Wide Implementation of BNR in New York City
– Michael Lynch, Hazen and Sawyer
Sarah Galst, Hazen and Sawyer
Paul Pitt, Hazen and Sawyer
Keith Mahoney, NYC DEP

WATER FOR PEOPLE
Session 14
Moderators: Jonathan Kunay, CDM Smith Suffolk
Mary White, MWRA

The “Puro” Project—Bolivia
– Kelli Lynch, Northeastern University
Ian McLean, Northeastern University
Sofia Sotelo Ortiz, Northeastern University

Upgrading Informal Settlements in Flamingo Crescent, South Africa
– Sarah Antolick, Worcester Polytechnic Institute

UConn Engineering in Ethiopia, Engineers Without Borders
– Kelsey Reeves, University of Connecticut

Global and Domestic Issues Affecting the Health and Security of Drinking Water
– Maureen McClelland, EPA Region 1

Tuesday Technical Sessions 13 – 18 (continued)
9:00–11:30 AM
Exhibit Hall Break 10:00–10:30 AM

INSTRUMENTATION AND AUTOMATION—EXPANDING THE WORLD OF INSTRUMENTATION, AUTOMATION AND IT
Session 15
Moderators: John Trofatter, Duperon Corporation Simons
James Spitzer, CDM Smith

Dynamic Pump Optimization and On Demand Condition Assessment
– Marc Buchwald, Schneider Electric
Jeff Miller, Schneider Electric
Sam Lauffenburger, Specific Energy

Real-time Control—The Next Generation of “Smart” Green Infrastructure
– Andrea Braga, Geosyntec Consultants, Inc.
Marcus Quigley, Geosyntec Consultants, Inc.

Using Statistical Process Control (SPC) for Improved Utility Management
– Scott Dorner, Hach

Automating Impervious Surface Mapping for Stormwater Utilities—From Pixels to Pavement
– Jared Newell, CDM Smith
Ajay Jadhav, CDM Smith
Scott McClelland, CDM Smith

PLANT OPERATIONS I
BALANCING PHOSPHORUS REMOVAL WITH SUSTAINABILITY
Session 16
Moderators: Tom Hazlett, Woodard and Curran Wellesley
Ed Rushbrook, Process Analysts

Meeting North Attleborough, MA’s 0.1 mg/L Phosphorus Limit with Bio-P and Cloth Media Filters—From Pilot Testing through the First Year of Operation
– Susan Guswa, Tighe & Bond
Merrill Hastings, Town of North Attleborough, MA

Optimizing the A2/O Process to Push the Limit of Technology at Upper Blackstone
– Maureen Neville, CDM Smith
Karla Sangrey, Upper Blackstone WPAD

Tertiary Treatment Upgrade using Ballasted Flocculation for Zinc and Phosphorus Removal in Smithfield, RI—A First in Rhode Island, Pilot and Full-scale operation
– Bryan Weiner, Wright-Pierce
David Bowen, Wright-Pierce
Kevin Cleary, Town of Smithfield, RI

The Road to Meeting NPDES Permit Limits in Greenville, NH
– Erik Osborn, Woodard & Curran
TUESDAY TECHNICAL SESSIONS 13 – 18 (CONTINUED) 9:00–11:30 AM
Exhibit Hall Break 10:00–10:30 AM

COLLECTION SYSTEMS I—LEAKY SYSTEM?
Putting a Cork in It!
Moderators: Stacey DePasquale, Stacey DePasquale Engineering
Charles Tripp, Tighe & Bond

Implementation of SSES Recommendations and SSES Pilot Study Program
—Katelyn Biedron, CDM Smith
—Jason Waterbury, The MDC
—John Harper, CDM Smith

I/I Removal—Cost or Benefit
—Paul Brinkman, Wright-Pierce

Flow Monitoring Saves Avon, CT Big Money
—Matthew Jermine, Fuss & O’Neill, Inc.

A Customized Approach to Sewer System Rehabilitation Program—Lateral Lining in Westwood, MA
—Jeffrey Bina, Town of Westwood, MA
—Marina Fernandes, CDM Smith
—Todd Korchin, Town of Westwood, MA
—Richard Barry, Town of Westwood, MA

STORMWATER III—STORMWATER MANAGEMENT—
VIEWS FROM THE TOP AND BOTTOM OF THE CHARLES
Moderators: Virginia Roach, CDM Smith
Angela Blanchette, City of Saco, ME

One RDA—Two Approaches
—Vonnie Reis, Town of Milford, MA
—Robert “Brutus” Cantoreggi, Town of Franklin, MA

Building the Lower Charles River Basin Hydrologic and Hydraulic Model for Long-term Planning in Cambridge, MA
—David Bedoya, MWH Global
—William Pisano, MWH Global
—Owen O’Riordan, City of Cambridge, MA

Boston’s BMP Recommendation Plan for TMDL Compliances
—Dingfang Liu, CH2M HILL
—Nic Warrens, CH2M HILL
—Charlie Jewell, Boston Water and Sewer Commission

Development and Implementation of an Industrial Facility Stormwater Pollution Program in New England
—John Murphy, Stantec

TUESDAY TECHNICAL SESSIONS 19 – 24 1:30–4:00 PM
Exhibit Hall Break 2:30–3:00 PM

HOT TOPIC—PROCESS MONITORING AND CONTROL
Moderators: Patricia Passariello, Weston & Sampson
Joseph Nordeck, MassDEP

Advances in On-line Instrumentation and Enhanced Wastewater Process Control
—Justin Irving, Hazen and Sawyer

A Holistic Approach to Plant Control Provides Both Process Improvement and Energy Savings
—Tilo Stahl, Biochem Technology
—Steven Kestel, BioChem Technology
—Gregory Duffy, BioChem Technology

Use of Dynamic Process Control at a Long Island Sound Water Pollution Control Facility Significantly Reduces Supplemental Carbon Use While Maintaining Nitrogen Removal Permit Compliance
—Gary Johnson, Consultant
—Mark Rode, General Control Systems
—Peter Stallings, Town of Stratford, CT

Instrumentation and Methods for Monitoring and Process Control of the Biological Nutrient Removal System at the North Attleborough, MA WWTF
—Daniell Roop, Tighe & Bond
—Kaela Wicklund, Town of North Attleborough, MA

UTILITY MANAGEMENT I/SUSTAINABILITY II
THE TIDES ARE RISING—UTILITIES RESPONDING TO CLIMATE CHANGE
Moderators: Seth Garrison, Woodard & Curran
Ian Cato, Tighe & Bond

NEIWPCC Storm Resiliency and Adaptation Needs for Wastewater Treatment Plants in the Northeast Update
—John Murphy, NEIWPCC

Planning for Climate Change at Your Wastewater Treatment Facility—What You Should Be Doing Now
—Jeffrey Pinnette, Wright-Pierce
—David Cockburn, Wright-Pierce

Prepare for Climate Change—How to Access FEMA Funding for Hazard Mitigation Planning and Projects
—Mary Kristin Ivanovich, Woodard & Curran
—Mary McCrann, Woodard & Curran

Flood Resilience—A Basic Guide for Water and Wastewater Utilities
—Mark Sceery, EPA Region 1
PLANT OPERATIONS II—PLANT OPERATIONS POTPOURRI  
Moderators: Ben Levesque, Tighe & Bond  
Jon Hume, Wright Pierce

Odor Control Optimization — Extending your Carbon Life
– David Michelsen, South Essex Sewerage District  
Eric Barber, South Essex Sewerage District  
Rick Delacorno, South Essex Sewerage District  
Kerry Griffin, South Essex Sewerage District  
Robert Bowker, Bowker and Associates

Chasing Wet Weather and Cost Savings All the Way to Compliance
– Dan Davis, Brown and Caldwell  
Diane Nascimento, Brown and Caldwell

Using an Old Tool to Combat Microthrix Parvicella
– Paul Dombrowski, Woodard & Curran  
Thomas Sciarrocco, Town of Windsor Locks, CT  
Harvey King, Woodard & Curran  
Amine Hanafi, Woodard & Curran

Optimizing Process Control for a 4-Stage Bardenpho Process using a Bioprocess Aeration Control System
– Dana Frye, Fuss & O’Neill, Inc.

WATERSHED MANAGEMENT—NUTRIENTS RULE THE DAY  
Moderators: Phil Forzley, Fuss & O’Neill  
Jennifer Johnson, Nitsch Engineering

Leveraging Resources to Meet SWMI
– Sebastian Amenta, Comprehensive Environmental, Inc.  
Rebecca Balke, Comprehensive Environmental, Inc.

Town-wide Watershed Management Strategies to Protect and Restore Fresh Water Ponds
– Mark Nelson, Horsley Witten Group

Low Cost Biological Nutrient Removal for Treatment Plants in the Upper Long Island Sound Watershed
– Emily Bird, NEIWPCC  
Jeanette Brown, JJ Environmental

Peer Review of Great Bay Estuary Nutrient Approach: Simplified Methods Are not Reliable for Imposing Stringent Nitrogen Limits
– John Hall, Hall & Associates  
Keisha Sedlacek, Hall & Associates  
William Hall, Hall & Associates  
Benjamin Kirby, Hall & Associates

OPERATOR INGENUITY
Moderators: Timothy Vadney, Wright-Pierce  
Ray Vermette, City of Dover, NH

Anatomy of an Effective Preventative Maintenance Program
– Mickey Nowak, United Water

Don’t be Afraid to Try New Ideas!
– Ken Gagnon and Jeff Gamelli, City of Westfield, MA

Saving Money by Restoring Equipment
– Ray Vermette, City of Dover, NH

Creative Use of Online Analyzer and an Innovative Tool for Rag Removal from Pumps
– Paula Anania and Mike Baker, City of Portsmouth, NH

Field Changes to Enhance Polymer System
– Harvey King, Woodard and Curran Operations

Experimenting to Optimize Nit/Denit in an Oxidation Ditch
– Julio Segarra, United Water

Changing Chains—More Easily and Safer, Too
– Joe Crosby, Narragansett Bay Commission

COLLECTION SYSTEMS II
MODELS, DEEP EXCAVATIONS AND HURRICANES, OH MY!
Moderators: Peter Garvey, Dewberry  
George Pendleton, Martinez Couch & Associates

Big Pipe, Deep Excavation, Downtown Location; Equals Exciting Project
– Frederick McNeill, City of Manchester, NH  
Jared O’Donnell, CDM Smith

A Revolutionary City’s Multi-Faceted Emergency Repair Under the Governor’s Avenue
– Nicholas Rystrom, City of Revere, MA  
Jonathan Kunay, CDM Smith

Tackling Mother Nature’s Fury: Designing a Direct Bury and Aerial Pipeline to Withstand a Hurricane and Seismic Event
– Joshua Farmer, Hazen and Sawyer

The Final Piece of the Puzzle—Complex Sewer Replacement Across the Sudbury River and Below an Army Corps Flood Gate Foundation Completes Six Miles of New Interceptor in Framingham, Massachusetts
– Ziad Kary, Environmental Partners  
James Barsanti, Town of Framingham, MA
WEDNESDAY TECHNICAL SESSIONS 25 – 29 8:30–11:00 AM

HOT TOPIC—MANAGING STORMWATER ASSETS
Session 25
Moderators: Matthew St. Pierre, Tata & Howard
Katherine Goyette, Kleinfelder

CMOM in the Rain: How Portland Is Applying CMOM to Drainage System Assets
– Nancy Gallinaro, City of Portland, ME
Barry Sheff, Woodard & Curran
Megan McDevitt, Woodard & Curran

Doubling Down on Stormwater in Westford, MA
– Emily Scerbo, Tighe & Bond
Paul Starratt, Town of Westford, MA

A Practical Approach to Managing Stormwater Assets and Water Quality in Newton, MA
– Jaurice Schwartz, Weston & Sampson
David Elmer, Weston & Sampson

EPA Region 1 Stormwater Program—An Update
– Newton Tedder, EPA Region 1

UTILITY MANAGEMENT II
Session 26

UTILITY MANAGEMENT CHALLENGES AND INNOVATION
Salon C/D
Moderators: Jay Sheehan, Woodard & Curran
William Brink, City of Stamford, CT

Utilities Improve Performance Using Private Business Techniques
– Seth Garrison, Woodard & Curran
Robert Ward, City of Haverhill, MA
Brian Pena, City of Lawrence, MA

Leading People and Managing Assets for a Sustainable Future
– James Courchaine, Tata and Howard

The MFN Regional Wastewater District is Born—Three Communities Working Together to Implement Their Wastewater Management Plans
– David Young, CDM Smith
Lee Azinheira, Town of Mansfield, MA

The Next Generation of O&M Manuals—Web-based Manuals
– Scott Firmin, Portland Water District
Zachary Bodkin, University of Maine

CSO II—FROM GREEN INFRASTRUCTURE TO LARGE CONDUITS
Session 27

—HOW COMMUNITIES ARE MANAGING WET WEATHER
Moderators: Steven Freedman, AECOM
Ivonne Hall, CT DEEP

A Taste of the Green Apple
– Virginia Roach, CDM Smith
Magdi Farag, NYC DEP
Raymond Palmares, NYC DEP
Margot Walker, NYC DEP

$350K Cost Savings Achieved Through Detailed Modeling And Innovative Design for a CSO Storage Facility in Nashua, NH
– Charles Wilson, Hazen and Sawyer
Frank Ayotte, Hazen and Sawyer
Amy Prouty Gill, City of Nashua, NH
Jeanne Walker, City of Nashua, NH

Voluntary CSO Flow Monitoring...what you don’t know, can hurt you (and the environment)
– Thomas Sgroi, Greater New Haven WPCA
Bruce Kirkland, Greater New Haven WPCA
Bruce Cohen, CSL Services, Inc.

Construction Challenges of the Seekonk Combined Sewer Overflow (CSO) Interceptor
– Roger Norton, CDM Smith
Mohammed Reza Jafari, CDM Smith
Robert Otoski, CDM Smith
William Cotter, CDM Smith

PLANT OPERATIONS III
Session 28

NITROGEN REMOVAL PROJECT CASE STUDIES
Wellesley

Implementing a Wastewater Treatment Facility Upgrade/Expansion Using IFAS at West Haven, CT
– Mario Francucci, Black & Veatch
David Banning, Black & Veatch
Abdul Quadir, City of West Haven, CT
William Norton, City of West Haven, CT

Achieving 5 mg/L TN with no New Tankage at Bucklin Point
– William McConnell, CDM Smith

Greenhouse Gas Emissions from Biological Nutrient Removal at Field’s Point Wastewater Treatment Plant
– Elizabeth Brannon, University of Rhode Island
Serena Moseman-Valttierra, University of Rhode Island
James McCaughey, Narragansett Bay Commission

Fine Tuning a BNR Process to Meet Stringent Total Nitrogen Requirements
– John Gallegos, CDM Smith
<table>
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<tr>
<th>WEDNESDAY TECHNICAL SESSIONS 25 – 29</th>
<th>8:30–11:00 AM</th>
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<tbody>
<tr>
<td><strong>PUBLIC EDUCATION—AWARD-WINNING PUBLIC EDUCATION SUCCESSES</strong></td>
<td>Session 29</td>
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<td>Moderators: Danielle Gallant, CDM Smith Deborah Mahoney, Hazen and Sawyer</td>
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<td><strong>Narragansett Bay Commission’s Public Outreach: Educating Youth and Engaging Stakeholders</strong></td>
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<td>—Pamela Reitsma, Narragansett Bay Commission Cynthia Morissette, Narragansett Bay Commission Christine Comeau, Narragansett Bay Commission</td>
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<td><strong>A Novel Photocatalytic Pervious Composite for Wastewater Reuse</strong></td>
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<td>—Deepika Kurup, Nashua High School South</td>
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<td><strong>NEWEA Schoolkit Demonstration and Information Session</strong></td>
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<td>—Leonard Young, MWRA Danielle Domingos, MassEEA</td>
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<td><strong>Water Quality Education in Billerica—A 20-Year Success Story</strong></td>
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<td>—Jeffrey Kalmes, Town of Billerica, MA</td>
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<th>WEDNESDAY TECHNICAL SESSIONS 30 – 33</th>
<th>1:00–3:00 PM</th>
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<tr>
<td><strong>HOT TOPIC—INFRASTRUCTURE RESILIENCY</strong></td>
<td>Session 30</td>
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<td>Moderators: Jeff Cantwell, Flow Assessment Mary White, MWRA</td>
<td>Salon C/D</td>
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<td><strong>Microgrids to Support Critical Infrastructure</strong></td>
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<td>—Kenneth Geisler, Siemens</td>
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<td><strong>“Taking the Next Step” in Adaptation Planning and Implementation in Ogunquit, ME</strong></td>
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<td>—Ed Leonard, Wright-Pierce Phil Pickering, Town of Ogunquit, ME</td>
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<td><strong>Safeguarding Vital Wastewater Infrastructure: A Strategic Climate Risk &amp; Triple Bottom Line Adaptation Framework</strong></td>
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<td>—Anni Luck, Hazen and Sawyer Laura Bendernagel, Hazen and Sawyer Pinar Balci, NYC DEP Alan Cohn, NYC DEP</td>
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<td><strong>BWSC Climate Change Risk Assessment, Findings and Mitigation/Adaptation Strategies for Wastewater and Storm Drainage</strong></td>
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<td>—William McMillin, CH2M HILL John Sullivan, Boston Water and Sewer Commission Charlie Jewell, Boston Water and Sewer Commission</td>
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<td><strong>ASSET MANAGEMENT II</strong></td>
<td>Session 31</td>
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<td><strong>HOW TO START AND CONTINUE AM</strong></td>
<td>Provincetown</td>
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<td>Moderators: John Rogers, Consultant John Jackman, Hoyle, Tanner &amp; Associates</td>
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<td><strong>Asset Management—Even a Journey of 10,000 Miles Starts with a Single Step</strong></td>
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<td>—Joseph Ridge, CDM Smith Jeff Claus, CDM Smith</td>
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<td><strong>Spring 2014 Specialty Conference White Paper Forum</strong></td>
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<td>—John Rogers, Consultant</td>
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**Wednesday Technical Sessions 30 – 33 (Continued) 1:00–3:00 PM**

**Residuals II/Sustainability III**

**A Sustainable Future for Biosolids**

Moderators: Courtney Eaton, Carollo Engineers
Chris Muller, Brown and Caldwell

An Overview of the New WEF Publication “Moving Toward Resource Recovery Facilities”
—Elizabeth Watson, United Water

Planning for an Uncertain Future—Biosolids Disposal in a Bold New World
—Deborah Mahoney, Hazen and Sawyer
Matt Van Horne, Hazen and Sawyer
Hans Tungeblom, Veolia Water
Roger Brooks, City of Leominster, MA

Twenty Years of Biosolids Composting
—Clayton (Mac) Richardson, Lewiston-Auburn WPCA
Michael Giggey, Wright-Pierce
Jeffrey Pinnette, Wright-Pierce
Mike Pelletier, Lewiston-Auburn WPCA

Does Composting Still Make Sense—An Evaluation of the Existing Agitated-Bed Composting Facilities at the Dartmouth, MA WPCF
—Kenneth Scully, Fay, Spofford & Thorndike
Carlos Cardoso, Town of Dartmouth, MA

**Collection Systems III**

**If You Build It, the Sewer Will Come**

Moderators: John Murphy, Stantec
Dennis Sullivan, National Water Main Cleaning Co.

Alternative Biotechnology Provides Enhanced Biological Nitrogen Removal Efficiency
—Andrew Newbold, In-Pipe Technology Company, Inc.

Development of the Modern, Self-Cleaning Circular Wastewater Wet-well
—Robert Domkowski, Xylem, Inc. - Flygt

Force Main Ice Pigging—Middelbury, VT
—Wayne Elliott, Aldrich + Elliott, PC
Dick Johnson, Utility Service Group
Scott Kelley, Utility Service Group

Creating New Hydraulic Models of Old Complex Sewer Systems—The Challenges and the Pitfalls
—Nicholas Anderson, MWH Global
Tom Brueckner, Narragansett Bay Commission
Kathryn Kelly, Narragansett Bay Commission
Martha Fernandes, MWH Global

**Graduate/Student Technical Sessions**

**Graduate Student Tuesday Morning Session 1** 9:00–11:30 AM

Modeling Microbial Fuel Cells for Power Generation and Wastewater Treatment
—Secil Tutar, University of Connecticut

Push the Limit of Enhanced Biological Phosphorus Removal Process for More Sustainable Phosphorus Removal and Recovery
—Yueyun Li, Northeastern University
Annalisa Onnis-Hayden, Northeastern University
Yuqi Wang, Northeastern University
Helen Cope, University of Edinburgh, UK
Alistair Elfick, University of Edinburgh, UK
April Z. Gu, Northeastern University

Biogas Production from Anaerobic Co-Digestion of Microalgae Chlorella Sp. and Septic Tank Sludge
—Dingnan (Matthew) Lu, University of Massachusetts Lowell
Xiaoqi Zhang, University of Massachusetts Lowell

Changing Risk of Brominated Trihalomethanes in Drinking Water from Elevated Bromide in Source Water
—Yuxin Wang, Carnegie Mellon University
Jeanne VanBriesen, Carnegie Mellon University

**Poster Student Session**

Assessing the Impacts of Phosphorus Pollution at Alewife Brook
—Kate Munson, John Durant, Rich Vogel, Patrick Herron, Tufts University.

**Graduate Student Tuesday Afternoon Session 2** 1:30–4:00 PM

Self-Sustained Microbial Fuel Cell-Microbial Electrolysis Cell (MFC-MFC) Hybrid System to Reduce Metals in Wastewater
—Yan Li, University of Connecticut

Phosphorus-Recovery from Waste Activated Sludge (WAS) in Enhanced Biological Phosphorus Removal (EBPR) Processes
—Yuqi Wang, Northeastern University
Yueyun Li, Northeastern University
April Z. Gu, Northeastern University
Annalisa Onnis-Hayden, Northeastern University
Graduate/Student Technical Sessions

Graduate/Student Tuesday Afternoon Session 2 1:30–4:00 PM
(Continued)

Understanding the Migration Fates of Contaminants at Water/Sediment Interface Using Innovative Real-Time In Situ Profiling
– Zhiheng Xu, University of Connecticut

Impact of Advanced Oxidation Processes on the Composition and Biodegradability of Soluble Organic Nutrients in Wastewater Effluents
– Nick Tooker, Northeastern University
  Michael Drinkwater, Truckee Meadows WRF, Nevada
  John Horton, North Attleborough WWTF, Massachusetts
  Karla Sangrey, Upper Blackstone Water Pollution Abatement District, Massachusetts
  April Z. Gu, Northeastern University

Poster Board Displays

Monday, January 26 • 8:30 AM–4:30 PM • 4th Floor
Session with Authors: 1:30–3:30 PM

Biodegradability of Fluorinated Fire Fighting Foams
Amy Bourgeois, Worcester Polytechnic Institute

Sustainability in Manufacturing and Product Selection
Dennis Hallahan, Infiltrator Systems Inc.

Sustainable Removal of Nitrogen and Phosphorus by Anaerobic-Anoxic-Aerobic Biological System in a Wastewater Treatment Plant
Mohamed Hamoda, Kuwait University

Stormwater Update – Don’t Get Swept Away with the Changes!
Ryan Kmetz, Tighe & Bond, Inc.

Taking the Guesswork out of Project Planning and Management with 3-D Laser Scanning & Modeling
Christopher Lorrain, LandTech Consultants

Identifying and Prioritizing Green Infrastructure in Plattsburgh, NY
Giana Park, CDM Smith

Pilot-Testing Coupled with Computer Modeling Produces Improved Land-Application Design for Regional Wastewater District in Norton, MA
Buvana Ramaswamy, CDM Smith

How the West Was Dug—Renewing Urban Infrastructure in the City of Cambridge
Ben Stoddard, Kleinfelder

GI Site Suitability in New Haven, CT
Nicholas Warrens, CH2M HILL

Student Board Display Competition

Tuesday, January 27 • 9:00 AM–3:30 PM • 4th Floor
Session with Authors: 12:30–2:00 PM

Town of Lexington Stormwater Monitoring Project
Hannah Butera, Michaela Fitzgerald and, Ellen Gerardi, University of Massachusetts Lowell

Optimizing CoMag® System Operations
Melissa Dery, Kyle Gerlach, Zachary Johnson, and Maya Rhinehart, Worcester Polytechnic Institute

Recovery of Iron Oxides from Acid Mine Drainage
Michael Ryan, Lafayette College

Side-stream Enhanced Biological Phosphorus
Andrea Zatorski, Northeastern University
Moderators

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<tr>
<th>Moderator</th>
<th>Affiliation</th>
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Annual Business Meeting

MONDAY, JANUARY 26

Welcome
Bradley Moore, NEWEA President

8:00 AM
Vineyard

2015 Officer Nominations

8:00–8:30 AM

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 26, 2015:

• Vice President – James Barsanti
• Treasurer – Frank Occhipinti (3rd year)
• Secretary – Gerald Potamis (2nd year)
• Council Director – Communications – Jennifer Lachmayr (1st year)*
• Council Director – Meeting Management – Meg Tabacsko (3rd year)
• Council Director – Collection Systems & Water Resources – Virgil Lloyd (2nd year)
• Council Director – Outreach – Jonathan Kunay (1/15 – 1/18)
• WEF Delegate – Susan Sullivan (10/15 - 10/18)
• Rhode Island Director – Michael Spring (1/15 – 1/18)
• Vermont Director – Nathan Lavallee (1/15 – 1/18)

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

• President – Matthew Formica
• President-Elect – Raymond Willis
• Past President – Bradley Moore

The remaining incumbents are fulfilling unexpired terms:

• WEF Delegate – Howard Carter (exp. 10/15)
• WEF Delegate – Michael Wilson (exp. 10/16)
• WEF Delegate – Daniel Bisson (exp. 10/17)
• Council Director – Treatment, Sys Operations, and Mgmt – Priscilla Bloomfield (exp. 1/16)
• Maine Director – Peter Goodwin (exp. 1/16)
• New Hampshire Director – Fred McNeill (exp. 1/16)
• Massachusetts Director – Michael Moreau (exp. 1/17)
• Connecticut Director – Jay Sheehan (exp. 1/17)

All nominees have indicated their willingness to serve.

Respectfully Submitted by the NEWEA Nominating Committee: Roger Janson (Chair), Daniel Bisson, Priscilia Bloomfield, Mike Bonomo, Meg Tabacsko

Adjourn
Bradley Moore, NEWEA President

Guest Program

MONDAY, JANUARY 26

Exhibit Hall Reception (3rd floor Exhibit Area) 4:30–6:30 PM

TUESDAY, JANUARY 27

Breakfast 7:30 AM

IT’S ALL ABOUT VALENTINE’S DAY
Coordinator: Joy Lord Regis

9:00 AM–3:00 PM

In preparation for Valentine’s Day, we will be crafting several sweet items for your home. It will also inspire you to make these for other holidays and special occasions.

Have you seen the wreaths made of Decor Mesh and wondered how to make them? Well, wonder no more. You’ll make one of your own for your front door.

What would Valentine’s Day be without candy? You will love constructing your own candy topiary or two, to display in your home.

This is a great way to have your candy and not eat it all (calorie free) ……. and if there is time, another surprise.

We will start with a continental breakfast 7:30 – 9:00 AM and have lunch in house mid day.

Come join in the fun for a sweet day. Dress comfortably (red/pink) and bring your glue gun.

Exhibit Hall Reception (4th floor Exhibit Area) 4:00–6:00 PM

Don’t forget, Monday lunch at the “Top of the Hub” at 12:00 noon. This is independent of the NEWEA registration. Remember—no jeans.
Exhibitors

ACF Environmental

Booth #415

ADS Environmental Services (BRONZE SPONSOR)

Booth #427, 445

ADS provides a full range of flow monitoring equipment and service as well as a field capabilities for I&I 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: Mike Bonomo, 51 Wentworth Ave., Unit 11, Bldg. B, Londonderry, NH 03053, tel: (203) 257-3224, fax: (203) 261-2715, mbonomo@idexcorp.com, www.adsenv.com

Advanced Drainage Systems, Inc.

Booth #202

ADS has established a reputation for leadership in the storm drainage, sanitary sewer and stormwater treatment/management industries by staying committed to the development of state-of-the-art products and services that set industry standards and help solve industry challenges. The ADS product line encompasses solutions for stormwater drainage, sanitary sewer, road/highway construction, real estate/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, fax: (860) 849-3106, aaron.cheever@ads-pipe.com, www.ads-pipe.com

Aerisa

Booth #426

Aero-Mod

Booth #480

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


AllMax Software, Inc.

Booth #203

Operator10 water and wastewater software, Antero CMMS and Synexus pretreatment software. Data management and reporting software and comprehensive technical support services.

Contact: Chase Clements, 911 South Main Street, Kenton, OH 43326, tel: (800) 670-1867, fax: (419) 673-8864, chase.clements@allmaxsoftware.com, www.allmaxsoftware.com

Amiad

Booth #426

ANUA

Booth #410-413 & 473-475 & 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: John Payne, PO Box 77457, Greensboro, NC 27417, tel: (336) 547-9338, fax: (336) 547-9339, john.payne@anua-us.com, Manufacturing Rep: Wescor Associates, Inc.

AP/M CentriPipe

Booth #142

CentriPipe is the original centrifugally cast concrete pipe solution. Approved, installed, and trusted by DOTs and municipalities for proven, cost-effective, trenchless, structural spin-cast lining of culverts.

www.centripipe.com, (800) 662-6465

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

APG-Neuros

Booth #427

Aqua-Aerobic

Booth #428

Aqua Solutions, Inc. (GOLD SPONSOR)

Booth #452, 453, 460, 461, 469


Contact: Barbara McLachlan, 154 West Grove Street, Suite D, Middleboro, MA 02346, tel: (508) 947-5777, fax: (508) 861-0733, info@aquasolutionsinc.net, www.aquasolutionsinc.net

Aquagen Infrastructure Systems, Inc.

Booth #109

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) 280-6909, bbs@aquagenisi.ws, www.tccdevelopmentgroup.com, Manufacturing Rep: The Conservation Consortium

Aquaturbo Systems, Inc.

Booth #410-413 & 473-475 & 481-482 & 489-490

Fixed low speed “bottom aerator/mixers, floating surface aerators, fixed low speed surface aerators, screw/wheel technology combines high efficiency with gentle action and complete mixing. Foam breakers and subsurface mixers.

Contact: Tod Forquer, 1754 Ford Avenue, Springdale, AZ 87264, tel: (479) 927-1300, fax: (479) 927-0700, tod.forquer@aquaturbo.com, Manufacturing Rep: Wescor Associates, Inc.

Aquionics

Booth #401-409

ARCH Chemicals, Inc.

Booth #410-413 & 473-475 & 481-482 & 489-490

ARCH Constant “CHLOR” Calcium Hypochlorite Feed Systems. The chemical feeder uses a patented spray technology to produce fresh liquid chlorine solution as needed. The system uses constant chlor “plus dry calcium hypochlorite briquets containing a minimum of 65% av by weight.


Aries Industries, Inc.

Booth #108

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, fax: (262) 896-7099, john.kudis@airesindustries.com, www.airesindustries.com

ASA Analytics

Booth #410-413 & 473-475 & 481-482 & 489-490

ChemScan Analyzers are used widely for biological nutrient (BNR) 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 Drive, Ste 1, Waukesha, WI 53186, tel: (262) 391-8306, fax: (513) 683-8022, bpf@chemscan.com, www.esaanalytics.com, Manufacturing Rep: Wescor Associates, Inc.

Asahi/America, Inc.

Booth #435, 436

Asahi/America is a manufacturer of corrosion resistant thermoplastic fluid handling products including valves, actuators and pipe. Asahi maintains a custom fabrication department and provides consultation, supervision and training where required.

Contact: Joe Forquer, 655 Andover Street, Woburn, MA 01801, tel: (781) 933-1141, fax: (781) 933-1142, jforquer@asahi-america.com, www.asahi-america.com

Assmann Tanks/Ayer Sales, Inc.

Booth #145

ASSMANN Corporation of America manufactures single wall, double wall, conical bottom and horizontal tanks in linear and cross-linked polyethylene. ASSMANN offers tanks from 20-12,000 gallons. ASSMANN is the only 9001:2008 polyethylene tank manufacture, offers a 5 year warranty, offers tanks with NSF-61 and FDA certifications, plus manufacturers all tanks to fully exceed the ASTM D-1998 standards.

Contact: Todd MacGregor, 2 Industrial Parkway, Woburn, MA 01801, tel: (781) 933-1141, fax: (781) 933-3675, customerservice@ayer.com, www.ayer.com
Associated Electro-Mechanics, Inc.  Booth #450, 451

Atlantic Fluid Technology, Inc.  Booth #505
Manufacturing representative for New England, specializing in process and flow control equipment: circular and rectangular clarifiers, mechanical screens and presses, CSD equipment, turbo blowers, fabricated and cast slide gates, control valves, tank covers, odor control, and hydraulic actuators.
Contact: Simon Moseley, 354 West Boylston St, Ste 221, West Boylston, MA 01583, tel: (508) 755-0440, fax: (800) 672-6960, simon@aftinc.com, www.aftinc.com, Manufacturing Rep: Atlantic Fluid Technology, Inc.

Autrol America c/o JWB Co  Booth# 422-424 & 430-433
Autrol America brings an impressive line of very competitive Smart Process Transmitters for measuring: Differential Pressure, Flow, Pressure & Temperature. These units are programmable using Hart protocol or by using the built in pushbutton and control panel.
Contact: Jamie Birkenberger, 65 August Avenue, Wolcott, CT, tel: (203) 879-6959, fax: (203) 879-7299, jamie@jwbcompany.com, www.jwbcompany.com, Manufacturing Rep: JWB Company

BAU/HOPKINS  Booth #422-425 & 430-433
BAU/HOPKINS is a Multi-Man Manufacturer's Technical Representation serving the New England Marketplace. We specialize in Chemical Feed Products & Systems, Fluid Process Systems along with the Instrumentation required to monitor these processes. BAU/HOPKINS has a close working relationship with the JWB Company.
Contact: Alan Hopkins, 310 South Street, Plainville, MA 02762, tel: (508) 699-9300, fax: (508) 699-9047, ahopkins@bauhoppkins.com, www.bauhoppkins.com, Manufacturing Rep: BAU/HOPKINS

BDP Industries, Inc.  Booth #163A
Manufacturer of Thickening, Dewatering and Composting Systems equipment. Products include Belt Press, Screw Press, Rotary Drum Thicker, Gravity Belt Thicker, Compost Agitator, In Vessel Composting, Osmotic Service & Equipment Restoration. For the past 35 years, BDP Industries has refined and improved the performance and longevity of its equipment that is designed and manufactured in-house in Greenwich, NY.
Contact: Dan Fronhofer, PO Box 118, Greenwich, NY 12834, tel: (518) 695-6851, fax: (518) 695-5417, dan@bdpindustries.com, www.bdpindustries.com, Manufacturing Rep: David F. Sullivan and Associates

Bilfinger Airvac Water Technologies  Booth #183
Bilfinger Airvac Water Technologies is the world leader in vacuum sewer technology, with over 40 years of experience in planning, design, installation, and operation of vacuum systems.
Contact: Jim Docherty, 4217 N. Old US 31, Rochester, IN 46975, tel: (574) 223-3980, jim.docherty@bilfinger.com

Bio Organics Catalyst, Inc.  Booth #215
BioSec Enviro, Inc.  Booth #164B
Contact: 490 York Road, Bldg D, Guelph, ON NIE 6V1, tel: (519) 265-6886, fax: (519) 265-6927, info@biosecenviro.ca, www.biosecenviro.ca, Manufacturing Rep: David F. Sullivan and Associates

BISCO Pump Systems  Booth #484, 485
Bisco Pump Systems is a supplier for leading manufacturers of pumps and controls for the New England municipal, industrial and commercial markets. Our products include submersible, dry-pit and sludge pumps, pressure sewer systems, packaged water booster systems and storm water pumping to 200,000 gpm. We specialize in the tough pumping applications and repair parts for all makes of pumps.
Contact: Bob Greene, 60 Stegis Way, Dedham, MA 02026, tel: (800) 225-8006, fax: (781) 461-8654, bobg@gobisco.com, www.gobisco.com

Blake Equipment Co.  Booth #462, 463
Blake Equipment is a full service manufacturer’s representative of pumps, controls, and prepackages treatment systems and odor control. We can provide design assistance to provide Peak Performance Solutions for water and wastewater projects. We represent HOMA pumps, Cornell, Myers, Goulds, Pulsed Hydraulic Mixing, Advanced Carbon, OSI Controls, Conex, Easily Moved Equipment, QuantumFlu and more. With over 75 years of experience and multiple New England locations customers can count on us to provide fast, reliable service day or night every day of the year.
Contact: Ray Bahr, 4 New Park Road, East Windsor, CT 06088, tel: (860) 986-1072, raybahr@bgusa.com, www.blakeeqquip.com

Blue Water Technologies, Inc.  Booth #454
Blue Water has 20+ years providing capable wastewater treatment solutions and environmental remediation. Our Eco MAT™ primary filter and Blue PRO® process for nutrient and metals polishing are representative of our cultural commitment to innovation and sustainability.
Contact: C.J. Strain, 10450 N. Airport Road, Hayden, ID, tel: (888) 710-2583, fax: (208) 209-0396, csstrain@bluewater-technologies.com, www.blue2o.net, Manufacturing Rep: Russell Resources, Inc.

BMC Corporation  Booth #D

Brentwood  Booth #152-158, 182
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 Barrass, 500 Spring Ridge Drive, Reading, PA 19610, tel: (610) 374-5109, water@brentwoodindustries.com, www.brentwoodindustries.com, Manufacturing Rep: The MAHER Corporation

Burt Process Equipment  Booth #442, 443
Contact: Kimball Putnam, 100 Overlook Dr, Hamden, CT 06514, tel: (203) 287-1985 x307, kimbaputnam@burtprocess.com, www.burtprocess.com

Burrington, Inc.  Booth #196
Recognized and trusted for 90 years, Burrington offers tank cleaning machines, controls and solutions for your tanks, vessels, wet well, lift stations, clarifiers, digesters, and sludge - BUTTERWORTH CLEANING FOG.
Contact: Joan Sherman, 16737 W. Hardy Road, Houston, TX 77060, tel: (281) 821-7300, fax: (281) 821-5550, info@burrington.com, www.burrington.com

C.N. Wood Co., Inc.  Booth #A
Cabot Norit Activated Carbon  Booth #417
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, PO Box 790, Marshall, TX 75671, tel: (800) 641-9245, fax: (855) 612-1581, howard.yerger@cabotcorp.com, www.cabotcorp.com

Calgon Carbon UV Technologies  Booth #410-413 & 473-475 & 481-482 & 489-490

Carl Lueders & Company, Inc.  Booth #495
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, fax: (508) 358-7747, mark@luederscompany.com, www.luederscompany.com
<table>
<thead>
<tr>
<th>Company Name</th>
<th>Booth #</th>
<th>Products/Services</th>
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<tr>
<td>Carter Pump</td>
<td>#102, 104</td>
<td>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 St, Englewood, NJ 07631, tel: (800) 568-9798, fax: (201) 568-1313, <a href="mailto:rlopez@carterpump.com">rlopez@carterpump.com</a>, <a href="http://www.carterpump.com">www.carterpump.com</a>, Manufacturing Rep: Mechanical Solutions, Inc.</td>
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<td>Casella Organics</td>
<td>#160</td>
<td>Casella Organics is an industry leader in the transportation, recycling, processing, and marketing of organic and mineral resources including short paper fiber, ash, liming agents, food wastes, biodigesters, compost, and compost. Our experience and knowledge with liquid and solid residuals help clients build, operate, and maintain sustainable and effective resource solutions. Contact: Jen McDonnell, 135 Presumpscot St., Portland, ME 04103, tel: (207) 347-3600, <a href="mailto:jen.mcdonell@casella.com">jen.mcdonell@casella.com</a>, <a href="http://www.casellaorganics.com">www.casellaorganics.com</a></td>
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<tr>
<td>Continental Carbon Group</td>
<td>#454-458 &amp; 464-466</td>
<td>Manufacturer and supplier of products and systems for odor control. Continental Carbon acquired the Odor Control Division formerly of Calgon Carbon Corporation in 2014, which includes a range of proven technologies with a well-established installation base in municipal odor control applications. Contact: Deepak Angl, 321-1100 South Service Road, Stoney Creek, ON L8E 0C5, tel: (905) 643-7615, fax: (905) 643-5403, <a href="mailto:info@continental-carbon.com">info@continental-carbon.com</a>, <a href="http://www.continental-carbon.com">www.continental-carbon.com</a>, Manufacturing Rep: Russell Resources, Inc.</td>
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<tr>
<td>Coyne Chemical Environmental Svcs.</td>
<td>#127</td>
<td>Performance based chemical solutions for municipal and industrial water and wastewater industries. We are a full line chemical distributor offering onsite testing/trials. Treatment options include bio-solids separation, odor/corrosion control, phosphorus removal, heavy metals reduction, membrane cleaners/anti-scalants and much more. Contact: Kevin Brassard, 3015 State Road, Croydon, PA 19021, tel: (215) 785-3000, <a href="mailto:kbrassard@coynechemical.com">kbrassard@coynechemical.com</a>, <a href="http://www.coyneenvironmental.com">www.coyneenvironmental.com</a></td>
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<td>Cretex Specialty Products</td>
<td>#140</td>
<td>Leading manufacturer of manhole rehabilitation products, including mechanical chimney seals, PROCORING manhole adjustment system including round, square, and rectangular adjusting rings, pipe joint seals, lid plugs, lid gaskets, and inflow dishes. Contact: Robin Wolf, N16 W23390 Stonenigde Dr., Ste A, Waukesha, WI 53188, tel: (262) 542-8153, fax: (262) 542-0350, <a href="mailto:rwolf@cretexseals.com">rwolf@cretexseals.com</a>, <a href="http://www.cretexseals.com">www.cretexseals.com</a></td>
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<td>CUES</td>
<td>#149</td>
<td>CUES provides Full Circle Solutions for sewer line inspection and condition assessment, pipeline rehabilitation, grouting of marline pipe joints, lateral services and manholes. CUES offers truck-mounted systems, laser/sonar profiling systems, transporters, cameras, cutters, and asset inspection/decision support software. Contact: Richie Sheridan, 3600 Rio Vista Avenue, Orlando, FL 32805, tel: (800) 327-7791, <a href="http://www.cuesinc.com">www.cuesinc.com</a></td>
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<tr>
<td>Danfoss VLT Drives</td>
<td>#454-458 &amp; 464-466</td>
<td>Providing Variable Frequency Drives, Soft Starters and Harmonic Filters for the Water and Wastewater market for over 40 years. Come see our NEMA 4x outdoor offering! Contact: Joe Halliday, 8800 West Bradley Road, Milwaukee, WI 53224, tel: (414) 327-3036, fax: (414) 355-6117, <a href="mailto:johalliday@danfoss.com">johalliday@danfoss.com</a>, <a href="http://www.danfossdrives.com">www.danfossdrives.com</a>, Manufacturing Rep:. Russell Resources, Inc.</td>
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<tr>
<td>DeZURIK, Inc.</td>
<td>#505</td>
<td>DeZURIK invented the eccentric plug over 75 years ago for the municipal marketplace and along with APCO and Hilton Valve has continued to expand their offerings of knife gates; control, butterfly, air-release and check valves. Contact: Ed Fuchs, 290 Riverside Ave North, Sartell, MN 56377, tel: (320) 259-2000, fax: (320) 259-2227, <a href="mailto:eb.fuchs@dezurik.com">eb.fuchs@dezurik.com</a>, <a href="http://www.desurik.com">www.desurik.com</a>, Manufacturing Rep: Atlantic Fluid Technology, Inc.</td>
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<td>DN Tanks</td>
<td>#487</td>
<td>DN Tanks specializes in the design and construction of AWWA D-110 Prestressed Concrete Tanks for storage and treatment of potable water, wastewater, and other liquids. Contact: Chris Hodgson, 11 Teal Road, Wakefield, MA 01880, tel: (781) 246-1133, fax: (781) 224-5163, <a href="mailto:chris.hodgson@dnranks.com">chris.hodgson@dnranks.com</a>, <a href="http://www.dnranks.com">www.dnranks.com</a></td>
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<td>Dualiion</td>
<td>#410-413 &amp; 473-475 &amp; 481-482 &amp; 489-490</td>
<td>Dualiion has been the leader since 1964 in fabricating and marketing odor-pollution control systems. The Duali systems include horizontal and vertical chemical scrubbers, carbon absorbers, the ArcBioBio-Scrubber. Our high quality products combined with competitive pricing make Duali the product of choice with municipalities. Contact: Greg Kimmer, 1550 Industrial Drive, Owasso, MI 48867, tel: (989) 725-8184, fax: (989) 725-8188, <a href="mailto:gkimmer@coceoinviro.com">gkimmer@coceoinviro.com</a>, Manufacturing Rep: Wescor Associates, Inc.</td>
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Duke’s Root Control, Inc. (BRONZE SPONSOR) Booth #444
Duke’s Root Control Service is an effective, proven method for controlling everyday sewer line root problems. Over 2,000 municipalities have used Duke’s services in more than 200 million feet of sewer pipe.
Contact: Lynn Heffron, 1020 Hiawatha Blvd, West, Syracuse, NY 13204, tel: (315) 472-4781, fax: (315) 475-4203, lynn@dukes.com, www.dukes.com

Duponor Corporation Booth #164
Duponor Corporation is the leader in simple, adaptive screening technologies and provides solutions for coarse screening, fine screening, washer compactors and conveyance equipment.
Contact: Sarah Courtwright, 1200 Leon Scott Court, Saginaw, MI 48601, tel: (989) 754-8800, fax: (989) 754-2175, www.duponor.com, Manufacturing Rep: David F. Sullivan and Associates

EcoVerde c/o BAU/HOPKINS Booth #422-424 & 430-433
Contact: Alan Hopkins, 310 South Street, Plainville, MA 02762, tel: (508) 699-9300, fax: (508) 699-9047, ahopkins@felixseptic.com, www.easternpipeservice.com

Electroswitch Corp. Booth #137
Electroswitch is an American manufacturer of switches and relays for the power industry. We offer the widest variety of Instrument and Control, Lock Out relays and Breaker Control Switches meeting Electroswitch is an American manufacturer of switches and relays for the power industry. We offer the widest variety of Instrument and Control, Lock Out relays and Breaker Control Switches meeting Electroswitch is an American manufacturer of switches and relays for the power industry. We offer the widest variety of Instrument and Control, Lock Out relays and Breaker Control Switches meeting
Contact: Hubert Thompson, 2 Thibeault Dr, Bow, NH 03304, tel: (603) 424-4600, fax: (603) 856-8657, hthompson@felixseptic.com, www.easternpipeservice.com

Enduro Composites, Inc. Booth #506
FRP Solutions for Water & Wastewater Treatment Plants, including FRP Baffle Walls, FRP Flat Covers, and Odor Control Equipment.
Contact: Joe Getz, 16602 Central Green Blvd, Houston, TX 77032, tel: (713) 358-4000, fax: (713) 358-4100, jgetz@endurocomposites.com, www.endurocomposites.com, Manufacturing Rep: Atlantic Fluid Technology, Inc.

Entex Technologies, LTD Booth #410-413 & 473-475 & 481-482 & 489-490
Contact: Jason Bowman, 4000 Silver Cedar Court, Ste 260, Chapel Hill, NC 27514, tel: (919) 619-9487, fax: (432) 225-3327, jason.bowman@entexinc.com, www.entexinc.com, Manufacturing Rep: Wescor Associates, Inc.

Environmental Dynamics International (EDI) Booth #166
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 demonstration success in more than 7,000 installations in over 100 countries worldwide.
Contact: Suzanne Dill, 5601 Paris Road, Columbus, OH 43221, tel: (614) 713-2446, fax: (614) 621-2446, EDI@northamerica@wastewater.com, www.wastewater.com, Manufacturing Rep: David F. Sullivan and Associates

Environmental Operating Solutions, Inc. Booth #441
Environmental Operating Solutions, Inc. (EOS) offers the MicroC™ proprietary line of premium carbon sources, and a suite of tools and services to help customers meet their nutrient limits.

EPOXYTEC Booth #419
Since 1979, EPOXYTEC has offered solutions to rehabilitate and protect water and wastewater structures against H2S corrosion, I/I correction & protection with 100% solids, VOC free, moisture insensitive structural epoxies.
Contact: Marilyn Baron, 1055 Cetronia Rd, A8, Breinigsville, PA 18031, tel: (610) 704-1804, mbaron@epoxytec.com, www.epoxytec.com

ESt Associates, Inc. (GOLD SPONSOR) Booth #449
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 Freemont Street, Needham, MA 02494, tel: (781) 455-0003, fax: (781) 455-8336, jcarlin@estassociates.com

Esteem Wireless Modems c/o JWB Company Booth #422-424 & 430-433
Esteem manufactures a complete line of industrial wireless products. They have available high-speed Ethernet, Unlicensed Spread Spectrum and Licensed Narrow band serial communications in either the VHF or UHF radio band.
Contact: Jamie Birkenberger, 65 August Avenue, Wolcott, CT, tel: (203) 879-6959, fax: (203) 879-7299, jamie@jwbcompany.net, www.jwbcompany.net, Manufacturing Rep: JWB Company

ETS-UV by Neptune Benson Booth #165
Since 1956 Neptune Benson has been synonymous with water filtration and disinfection serving the aquatic, industrial and municipal markets. Featuring award-winning brands such as the Defender® regenerative media filter, ETS-UV ultraviolet disinfection system and Legacy™Sand Filters.
Contact: David McCarthy, 238 Commerical Drive, Beaver Dam, WI 53916, tel: (920) 885-4628, fax: (920) 885-4386, dmccarty@neptunebenson.com, www.ets-uv.com, Manufacturing Rep: David F. Sullivan and Associates

Evoqua Water Technologies Booth #174
Evoqua Water Technologies (formerly Siemens Water), will continue to provide our valued Water & Wastewater customers with the equipment brands they know (Envirex, Wallace & Tiernan, Memcor, USFilter, JetTech, Davco/Davco, RI Environmental, Westates Carbon, JWI, Lyco, Rex, Link Belt, CPC International, Stranco, Cambridge Water Technologies, etc.) and the performance they trust.

F.R. Mahony & Associates, Inc. (SPONSOR) Booth #401-409
Contact: Ed Quann, 273 Waymouth St, Rockland, MA 02370, tel: (781) 982-9300, fax: (781) 982-1056, edquann@frmahony.com, www.frmahony.com, www.amphidrome.com
Contact: Tim Fortner, 3905 Enterprise Court, Aurora, IL 60504, tel: (630) 236-5500, tfortner@grundfos.com, us.grundfos.com, Manufacturing Rep: David F. Sullivan and Associates. Grundfos offers total pumping solutions on any scale. Our decades of experience in developing controllers, motors and monitoring systems provide complete optimum pumping solutions.

Contact: Tim Fortner, 3905 Enterprise Court, Aurora, IL 60504, tel: (630) 236-5500, tfortnergrundfos.com, usa.grundfos.com, Manufacturing Rep: David F. Sullivan and Associates, Maltz Sales Company.

Hach Company

Since our founding in 1947 by Clifford and Kitty Hach we have been committed to providing high-quality products that are accurate and simple to use. For more than 60 years, we've been at the crest of the industry—finding solutions that help you best manage your water. Our analytical instruments and reagents are used to test the quality of water in a variety of industries and markets - from around the corner, to around the globe.

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

FTC FRP Panel Type Water Storage Tank Systems. Design water tanks up to 2.5 million USG with pre-insulated option available, no coatings to maintain and cannot corrode any shape except round! Compliant to AWWA D121-12, NFPA 22 and are NSF 61 listed with Annex G No Lead.

Contact: Owen Stevens, 7201 Lockport Place, Lorton, VA 22079, tel: (207) 989-0591, ostein@fiberteccorp.com, Manufacturing Rep: Russell Resources, Inc.

Fiber Technology Corporation

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Contact: Owen Stevens, 7201 Lockport Place, Lorton, VA 22079, tel: (207) 989-0591, ostein@fiberteccorp.com, Manufacturing Rep: Russell Resources, Inc.

Fiber Technology Corporation

FTC FRP Panel Type Water Storage Tank Systems. Design water tanks up to 2.5 million USG with pre-insulated option available, no coatings to maintain and cannot corrode any shape except round! Compliant to AWWA D121-12, NFPA 22 and are NSF 61 listed with Annex G No Lead.

Contact: Owen Stevens, 7201 Lockport Place, Lorton, VA 22079, tel: (207) 989-0591, ostein@fiberteccorp.com, Manufacturing Rep: Russell Resources, Inc.

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Hach Flow c/o BAU/HOPKINS & JWB Company
Booth #422-424 & 430-433
Collection Systems Flowmeters & Equipment. Both Permanent & Portable Open Channel Flowmeters. Radar, Ultrasonic, Area-Volume, Flowmeters, as well as rain gauges. Hach also offers a complete Collection & Monitoring System. Including Wireless & Internet Based solutions. Turnkey system via DDS (Data Delivery Services). This product line is supported by both BAU/HOPKINS & JWB Company. BAU/HOPKINS & JWB Company have a close working relationship.
Contact: Alan Hopkins, 310 South Street, Plainville, MA 02762, tel: (508) 699-9300, fax: (508) 699-9047, ahopkins@bauhopkins.com, www.bauhopkins.com, Manufacturing Rep: BAU/HOPKINS

Hydro Gate
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Hydramatic Pump--Pentair
Booth #102, 104
Contact: Derek Zeh, 740 East 9th St, Ashland, OH 44805, tel: (518) 496-9867, fax: (419) 281-4087, gmcDonald@misipump.com, www.hydromatic.com, Manufacturing Rep: Mechanical Solutions, Inc.

ICS Healy-Ruff c/o BAU/HOPKINS
Booth #422-424 & 430-433
Contact: Alan Hopkins, 310 South Street, Plainville, MA 02762, tel: (508) 699-9300, fax: (508) 699-9047, ahopkins@bauhopkins.com, www.bauhopkins.com, Manufacturing Rep: BAU/HOPKINS

IDModeling, Inc.
Booth #213
Contact: Rajan Ray, 27 Eldred Ct., Wakefield, MA 02879, tel: (401) 932-4631, rajan.ray@innovyze.com, www.innovyze.com

Innovair
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Innovair is a leading global provider of hydraulic modeling and wet infrastructure business analytics software solutions designed to meet the technological needs of water/wastewater utilities, government industries, and engineering organizations worldwide.
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Innovate, Inc.
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I.T. 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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IPM Systems, LLC
Booth #454-458 & 464-466
Manufacturer and system integrator of dry and liquid chemical feed systems for water and waste water treatment facilities in municipal and industrial markets.
Contact: Tyler Moore, 4225 SE Port Dr, Lee's Summit, MO 64064, tel: (610) 620-5256, fax: (816) 795-6050, tmorerod@ipm-sys.com, Manufacturing Rep: Russell Resources, Inc.
J.D.V. Equipment Corp.  Booth #410-413 & 473-475 & 481-482 & 489-490
J.D.V. Equipment Corporation is a leading manufacturer and provider of safe, environmentally friendly processing equipment and services for water treatment, wastewater treatment and industrial applications.

Maltz Sales Company, Inc.  Booth #152-158 & 182
Maltz Sales Company, the leader in fluid handling for the municipal market in New England, provides sales, service and support for a full array of product offerings. Utilizing our industry leading product offerings we offer solutions for applications such as wet and dry pit submersible pumps, transfer pumps, plant water booster systems, chemical feed and chemical storage tanks, mixers and alyatial instrumentation.
Contact: Teresa Roberts, 67 Green Street, Foxboro, MA 02035, tel: (508) 203-2400, fax: (508) 203-2401, teresa@maltsales.com, www.maltsales.com, Manufacturing Rep: Gundfos

J&R Sales and Service, Inc.  Booth #414
J&R Sales and Service have provided engineered onsite solutions in New England for over 20 years. We are the New England representative for the FAST Treatment, S&I, Modular FAST, and GEOPLOW Subsurface Drip Dispersal Systems. J&R is available to assist in site planning, system design, installation, and maintenance to meet the needs of virtually any onsite treatment requirement.
Contact: Lauren Usilton, 44 Commercial St., Raynham, MA 02767, tel: (508) 823-9566, fax: (508) 880-7232, info@jsalesinc.com, www.jsalesinc.com

J&B Company  Booth #422-424 & 430-433
J&B Company is a Manufacturer’s Representative covering the 6 New England States. J&B Company’s Product Line focus is on Instrumentation & Controls. J&B specializes in SCADA, Telemetry, Level, Flow, Pressure & Analytical instrumentation. J&B Company has a close working relationship with BAU/HOPKINS.
Contact: Jamie Birkenberger, 65 August Avenue, Wolcott, CT, tel: (203) 879-6959, fax: (203) 879-7299, jamie@jbcompanynet.net, www.jbcompanynet.com, Manufacturing Rep: J&B Company

Kemira Water Solutions, Inc.  Booth #143
Kemira is the world market leader in high quality aluminium and iron based coagulants for water and wastewater treatment applications.
Contact: Roger Gauthier, 4321 W. 6th Street, Lawrence, KS 66049, tel: (785) 842-7424, roger.gauthier@kemira.com, www.kemira.com

Krusler, Inc.  Booth #401-409
Krusler supplies solutions and technologies for wastewater and drinking water treatment. Through years of extensive research and development, Krusler provides integrated solutions that optimize energy and operating costs.

Kusters Water, a division of Kusters Zima Corporation,  Booth #480
Kusters Water is a well-positioned industry leader offering superior clarification, screening, biosolids and odor control technologies from Hi-Tech, WasteTech, F3M, Hiller, Fuchs, CSO Technik and ACAT.
Contact: Michael Ronn, 101 Zima Park Road, Spartanburg, SC 29301, tel: (864) 576-0660, fax: (864) 587-5752, michael.ronn@kusterszima.com, www.kusterswater.com, Manufacturing Rep: Atlantic Fluid Technology, Inc.
Martinez Couch & Associates LLC
Booth #161

McIntosh Controls Corp./SmartCover
Booth #148

McIntosh Controls Corp. Instrumentation represents Hadronex Monitoring Systems who products include SmartCover, SmartFlow and the new SmartTrend which enables users to anticipate overflow events (SSO) before they occur.
Contact: Rich Mattesky, 218 Little Falls Road Unit 1, Cedar Grove, NJ 07009, tel: (973) 433-4700, fax: (973) 433-4704, richard@mcintoshcontrols.com, www.mcintoshcontrols.com

Mechanical Solutions, Inc.
Booth #102, 104
Manufacturers representative for high quality pumps and wastewater treatment equipment. Offices located in New Hampshire and Connecticut with 24 hours service company – MPS plus 4000-ft^2 warehouse and the solutions to your system needs.
Contact: Gary MacDonald, PO Box 790, 121 Commerce Way, South Windsor, CT 06074, tel: (860) 290-1564, fax: (860) 290-1825, gm.macdonald@msipump.com, www.msipump.com

MGD
Booth #401-409

Mixtec
Booth #501

MJK
Booth #454-458 & 464-466
MJK manufacturers a wide range of high quality ruggedly designed level, flow and analytical instruments and controls for wastewater collection systems and water and wastewater treatment plants. This includes ultrasonic level transmitters, hydrostatic level transmitters, pump controls, pH, ORP, temperature, suspended solids, and turbidity.

National Filter Media/Filter Belts
Booth #126
In 100 years of business, National Filter Media has become one of the largest filter media companies in the world. Our Filter Belts Division located in Central Maine, has been custom manufacturing belts, parts and providing service for over quarter of a century. We carry replacement parts for all makes and models of Belt Filter Presses, CBT’s and drum screens.
Contact: Randy Carlsen, 12 Winada Drive, Winthrop, ME 04364, tel: (800) 321-5203, fax: (207) 377-2629, r.carlsen@nfm-filter.com, www.nfm-filter.com

National Oilwell Varco (NOV)
Booth #147
Chemineer offers an extensive line of mixing equipment including top entering agitators; side entering agitators, bottom entering agitators, static mixers, heat exchangers and high shear mixers.
Contact: Adrienne Kreightbaum, 5870 Poe Ave, Dayton, OH 45414, tel: (937) 454-3200, chemineer@nov.com, www.chemineer.com

National Water Main Cleaning Co.
Booth #107

Neptune Chemical Pump Company
Booth #454-458 & 464-466
Manufacturer of metering pumps, polymer makedown systems, packaged feed systems.

Netzsch c/o BAU/HOPKINS
Booth #422-424 & 430-433
Progressing Cavity & Rotary Lobe Pumps; NEMO Brand of Progressing Cavity Pumps; TORNADO Brand of Rotary Lobe Pumps. Introducing the T-2 Rotary Lobe Pump.
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New England Environmental Equipment
Booth #438-440 & 446-448
Contact: Robert Mack, 1 DeAngelio Dr., Bedford, MA 01730, tel: (781) 275-1001, fax: (781) 275-1002, bob@ne3inc.com, www.ne3inc.com

Noxon c/o BAU/HOPKINS
Booth #422-424 & 430-433
Centrifuge: Decanter Centrifuges & Complete Centrifuge Systems.
Contact: Alan Hopkins, 310 South Street, Plainville, MA 02762, tel: (508) 699-9300, fax: (508) 699-9047, ahopkins@bauhopkins.com, www.bauhopkins.com, Manufacturing Rep: BAU/HOPKINS

Oakson
Booth #483

OCV
Booth #454-458 & 464-466
OCV Control Valves are hydraulically operated, diaphragm actuated globe or angle valves that operate automatically from either line pressure or an independent power source. Internal moving parts are minimal and all valves can be adjusted and services without removal from the line.
Contact: Tom Brock, PO Box 3276, Brewer, ME 04412, tel: (207) 989-0591, fax: (207) 433-1080, jrussell@r-r-inc.com, www.r-r-inc.com, Manufacturing Rep. Russell Resources, Inc.

Opti Float/Cox Research c/o JWB Company
Booth #422-424 & 430-433
The Opti Float Level detector is a revolutionary innovation in float switches. It’s mercury and lead free, and is built to last for years. Using a fiber optic cable, it transmits a beam of light from an LED in a remote transceiver down to the float. That beam makes or breaks depending on the tilt of the float. So now for the first time, floats can be used directly without special equipment in hazardous locations.
Contact: Jamie Birkenberger, 65 August Avenue, Wolcott, CT, tel: (203) 879-6959, fax: (203) 879-7299, jamie@jwbcompany.net, www.jwbcompany.net, Manufacturing Rep. JWB Company

OSS, Inc.
Booth #195
OSS Inc is proud to introduce the Oil and Grease Extractor and associated method (ASTM D7575) for solventless and portable oil and grease analyses in wastewater and pretreatment programs. Please stop by our booth for a demonstration on how our product will simplify your job.
Contact: Luke Doucette, 689 Odin Road, Bangor, ME 04401, tel: (866) 269-8007, luke.doucette@ossmaine.com, www.ossmaine.com

Ovivo
Booth #501

Parkson Corporation
Booth #152-158, 182
With more than 25,000 installations, Parkson Corporation is a leading provider of advanced solutions in water recycling and treatment and is committed to providing clean water for the world.
Contact: Jean Grenier, 1401 W. Cypress Creek Road, Fort Lauderdale, FL 33309, tel: (954) 971-1886, tleshinski@parkson.com, www.parkson.com, Manufacturing Rep. The MAHER Corporation

Pavers by Ideal
Booth #186
Ideal manufactures Permeable Interlocking Concrete Pavers that mitigate stormwater runoff and meet LEED and LID criteria. Ideal for pedestrian areas, driveways, parking lots, and low speed roadways. Lunch-n-Lears available.
Contact: Jim Larsen, 45 Power Rd, PO Box 747, Westford, MA 01886, tel: (781) 894-3200, fax: (978) 692-0817, info@idealconcreteblock.com, www.idealconcreteblock.com, Manufacturing Rep. The MAHER Corporation

Penn Valley Pump
Booth #446
World leader in “Free Diaphragm™” pumping technology. Over 1000 units in New England. The Double Disk pump is clean, quiet and pumps any type of sludge, scum or septage. Run dry without damage. Typical run life 15,000 to 30,000 hours depending on application.
**Perma-Liner Industries, LLC**

**Booth #216**

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

Contact: Tony Sage, PO Box 3276, Brewer, ME 04412, tel: (207) 989-0591, fax: (207) 433-1080, jrussell@r-r-inc.com, www.r-r-inc.com, Manufacturing Rep: Russell Resources, Inc.

**Pinnacle Ozone Solutions, LLC**

**Booth #401-409**

Pinnacle Ozone Solutions offers the world’s most technically advanced, energy efficient, and reliable ozone systems.


**Pond Technical Sales**

**Booth #146**

Pond Technical Sales has been providing water and wastewater treatment solutions in New England since 1962, with world-class instrumentation from ROSEMOUNT, ROSEMOUNT ANALYTICAL, NET SAFETY, ASHCROFT, DYNASONICS and FOX THERMAL.

Contact: Brian Dennis, PO Box 3276, Brewer, ME 04412, tel: (207) 989-0591, fax: (207) 433-1080, sales@pondtechnicalsales.com, www.pondtechnicalsales.com

**Precision Systems**

**Booth #454-458 & 464-466**

Precision Systems is a manufacturer of packaged equipment for the water and wastewater industry, fully assembled and tested prior to shipment. Our Power Pac’s, Twin Pac’s and Hydro-Pac’s are available in economical above grade Tip-Up design, full indoor maintenance Walk-In design, and an aesthetically pleasing Partial-Bury design, Field installation time and problems are virtually eliminated.

Contact: Brian Dennis, PO Box 3276, Brewer, ME 04412, tel: (207) 989-0591, fax: (207) 433-1080, bdennis@precision-systems.com, www.r-r-inc.com, Manufacturing Rep: Russell Resources, Inc.

**PRIMEX Controls**

**Booth #416**

PRIMEX Controls offers a complete line of systems for remote site monitoring that includes phone line, Ethernet/OPC, cellular/Wireless and Internet based. PRIMEX has provided municipalities, industry and government with a wide variety of high-quality reliable remote communication systems, annunciators, and RTUs for alarm autodialing, remote monitoring, reporting, data logging and control. Applications range from only a single RTU to a full Multi-station, multi-point PLC, DCS, or SCADA Network.

Contact: Jamie Birkenberger, 65 August Avenue, Wolcott, CT, tel: (203) 879-6959, fax: (203) 879-7299, jamie@jwbcompany.net, www.jwbcompany.net, Manufacturing Rep: JWB Company

**Rain for Rent**

**Booth #194**

Rain for Rent is a leader in the providing of temporary liquid handling solutions including pumps, tank filtration and spill containment. Projects range from flood relief to construction site dewatering, sewer by-passes, and industrial plant turnovers.

Contact: Gregory Pray, 9 Pioneer Drive, North Oxford, MA 01537, tel: (508) 987-0042, sales@rainforrent.com, www.rainforrent.com

**Red Valve/Tideflex**

**Booth #440**

Pinch Valves (manual, pneumatic, electrical) from 1” to 84” Tideflex Check Valves, TF1 and the new **CheckMate** up to 72”, Course Bubble Aeration.


**RACO Manufacturing & Engineering Co. c/o JWB Company**

**Booth #422-424 & 430-433**

RACO offers a complete line of systems for remote site monitoring that includes phone line, Ethernet/OPC, cellular/Wireless and Internet based. RACO has provided municipalities, industry and government with a wide variety of high-quality reliable remote communication systems, annunciators, and RTUs for alarm autodialing, remote monitoring, reporting, data logging and control. Applications range from only a single RTU to a full Multi-station, multi-point PLC, DCS, or SCADA Network.

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Contact: Jamie Birkenberger, 65 August Avenue, Wolcott, CT, tel: (203) 879-6959, fax: (203) 879-7299, jamie@jwbcompany.net, www.jwbcompany.net, Manufacturing Rep: JWB Company

**Red Valve/Tideflex**

**Booth #440**

Pinch Valves (manual, pneumatic, electrical) from 1” to 84” Tideflex Check Valves, TF1 and the new **CheckMate** up to 72”, Course Bubble Aeration.


**Resource Management, Inc.**

**Booth #185**

Contact: Jessica Bunker, 1171 NH RT 175, Holderness, NH 03245, tel: (603) 536-8900, fax: (603) 536-8998, jessica.bunker@rmirecycles.com, www.rmirecycles.com

**Rexa**

**Booth #502**

**R.I. Analytical Laboratories, Inc.**

**Booth #E**

R.I. Analytical Laboratories, Inc. specializes in providing comprehensive analytical and testing services for the pharmaceutical, chemical, food and beverage, and environmental industries.

Contact: Peter Williams, PO Box 514, 29 Lincoln St, East Boothbay, ME 04544, tel: (207) 633-3111, fax: (207) 633-7694, pete.williams@ritec.com, www.ritecenvironmental.com

**Robuschi USA**

**Booth #410-413 & 473-475 & 481-482 & 489-490**

Robuschi USA is an international leader in the manufacturing of Lobe Blowers, Low Pressure Screw Blowers, Vacuum Pumps, and Centrifugal Pumps. The innovative ROBOX PD & SCREW Blowers offer top quality and highly efficient products.


**Pumps&Valves Systems Inc.**

**Booth #486**

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


**QCEC Wastewater Samplers**

**Booth #454-458 & 464-466**

Automatic portable & refrigerated sampling devises. 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.

Contact: Tony Sage, PO Box 3276, Brewer, ME 04412, tel: (207) 989-0591, fax: (207) 433-1080, jrussell@r-r-inc.com, www.r-r-inc.com, Manufacturing Rep: Russell Resources, Inc.
Rockwell Automation  
Booth #206

Roots  
Booth #159

Roots is a pipeline root control formula engineered to be used in house with existing sewer cleaning equipment and sewer crews so that municipalities can kill pipeline roots that cause SSOs.

Contact: Tyler Spragg, 1705 Salem Industrial Dr. NE, Salem, OR, tel: (800) 844-4974, fax: (503) 485-5229, parke@roots.com, www.roots.com

Ross Valve Mfg. Co.  
Booth #480

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, fax: (518) 274-0210, sales@rossvalve.com, www.rossvalve.com, Manufacturing Rep: Atlantic Fluid Technology, Inc.

Rotork Controls  
Booth #199-201

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.


Russell Resources, Inc.  
Booth #454-458 & 464-466

Manufacturer representatives for treatment, pumping, measuring and analytical equipment for water and wastewater community, municipal, and industrial.

Contact: Jim Russell, PO Box 3276, Brewer, ME 04412, tel: (207) 989-0591, fax: (207) 433-1080, jrussell@r-r-inc.com, www.r-r-inc.com

SAF-T-FLO c/o BAU/HOPKINS  
Booth #422-424 & 430-433


Contact: Alan Hopkins, 310 South Street, Plainville, MA 02762, tel: (508) 699-9300, fax: (508) 699-9047, ahopkins@bauhopkins.com, www. bauhopkins.com, Manufacturing Rep: BAU/HOPKINS

Sanitaire - Xylem Water Solutions USA, Inc.  
Booth #152-158, 182

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.

Contact: Dave Leidel, 71 Elm St, Worcester, MA 01609, tel: (508) 742-0998, fax: (508) 754-7377, dave.leidel@xyleminc.com, www.xyleminc.com/treatment, Manufacturing Rep: The MAHER Corporation

Scavin Equipment Co., LLC  
Booth #115


Schreiber c/o BAU/HOPKINS  
Booth #422-424 & 430-433


Contact: Alan Hopkins, 310 South Street, Plainville, MA 02762, tel: (508) 699-9300, fax: (508) 699-9047, ahopkins@bauhopkins.com, www. bauhopkins.com, Manufacturing Rep: BAU/HOPKINS

Schulz Group, A Timken Brand  
Booth #170

Scott Safety c/o BAU/HOPKINS & JWB Company  
Booth #422-442 & 430-433

Safety Equipment Fixed Toxic & Combustible Gas, Monitoring Equipment (Chlorine, Hydrogen Sulfide, HCN, Ammonia, SO2, Methane, etc. This Product line is supported by both BAU/HOPKINS & JWB Company. BAU/HOPKINS & JWB Company have a close working relationship.

Contact: Alan Hopkins, 310 South Street, Plainville, MA 02762, tel: (508) 699-9300, fax: (508) 699-9047, ahopkins@bauhopkins.com, www. bauhopkins.com, Manufacturing Rep: BAU/HOPKINS

Sedaru  
Booth #213

Sedaru is the smart water network that delivers the tools to understand and manage your system. By sharing information across the utility and better preparing for short- and long-term decisions, your utility can prioritize all its actions to boost water quality, efficiency, and profitability.

Contact: Adam Simonsen, 55 E. Huntington Dr. Ste. 130, Arcadia, tel: (203) 565-2806, fax: (626) 244-0702, adamsimonsen@idmodeling.com, www.sedaru.com

Shelter Works  
Booth #454-458 & 464-466

Shelter Works' composite fiberglass equipment shelters are Engineered-To-Order using proprietary processes, designed to withstand Alaskan snow loads, hurricane-force winds, or desert temperatures and come with our industry-leading 25-year warranty.

Contact: John Miller, 2616 S, 3rd Street, St. Louis, MO 63118, tel: (314) 664-9300, fax: (314) 664-9301, john@shelterworks.com, www.shelterworks.com, Manufacturing Rep: Russell Resources, Inc.

Smith & Loveless  
Booth #454-458 & 464-466

Smith & Loveless' energy-efficient wastewater treatment systems, including fixed-bed 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: Michael Nautes, 14040 Santa Fe Trail Drive, Kenexa, KS 66214, tel: (785) 989-0591, answers@smithandloveless.com, www smithandloveless.com, Manufacturing Rep: Russell Resources, Inc.

SNF Polydyne, Inc.  
Booth #191

SNF/Polydyne is the market leader in supplying functional polymers, and other chemistries, to assist Municipal Water and Wastewater Treatment plants improve their operating cost-efficiencies in critical liquid-solid separation processes.

Contact: Alex Krantz, 1 Chemical Plant Road, Riceboro, GA 31323, tel: (800) 848-7659, akrantz@polydyneinc.com, www.polydyneinc.com

Spartan Tool  
Booth #150

Spencer c/o BAU/HOPKINS  
Booth #422-424 & 430-433


Contact: Alan Hopkins, 310 South Street, Plainville, MA 02762, tel: (508) 699-9300, fax: (508) 699-9047, ahopkins@bauhopkins.com, www. bauhopkins.com, Manufacturing Rep: BAU/HOPKINS

Sprayroq, Inc.  
Booth #113

Sprayroq manufacturers spray-applied polyurethane lining systems for water and wastewater system rehabilitation. The core product, SprayWall, offers superior corrosion and infiltration control as well as structural integrity. Sprayshield Green is the first renewable source polyurethane specifically designed for the wastewater market.

Contact: Chris Pio, 248 Cahaba Valley Pkwy, Pelham, AL 35124, tel: (205) 957-0020, cpio@sprayroq.com, www.sprayroq.com

Stacey DePasquale Engineering, Inc. (SDE)  
Booth #434

Stacey DePasquale Engineering, Inc. has provided wastewater & storm water related services to numerous private and public clients since 1999.

Contact: Stacey DePasquale, 354 Merrimack Street, Ste 200, Lawrence, MA 01843, tel: (978) 975-0500, adamsimonsen@idmodeling.com, www.sedaru.com

Statewide Aquastore Inc. is a provider of Aquastore glass-fused-to-steel storage tanks. Applications range from numerous private and public clients since 1999.

Contact: Stacey DePasquale, 354 Merrimack Street, Ste 200, Lawrence, MA 01843, tel: (978) 975-0500, sdepasquale@sde-nc.com, www.sde-nc.com

Statewide Aquastore, Inc.  
Booth #500

Statewide Aquastore is a provider of Aquastore glass-fused-to-steel tank applications. Applications include the storage of potable, waste, sludge, and trickling filters. SBR’s, fire, ethanol production, methane recovery, industrial waste and many other water storage applications.

Contact: Harry Hagan, 6010 Drott Drive, East Syracuse, NY 13057, tel: (315) 433-2782, fax: (315) 433-0702, adamsimonsen@idmodeling.com, www.sedaru.com

Shelter Works' composite fiberglass equipment shelters are Engineered-To-Order using proprietary processes, designed to withstand Alaskan snow loads, hurricane-force winds, or desert temperatures and come with our industry-leading 25-year warranty.

Contact: John Miller, 2616 S, 3rd Street, St. Louis, MO 63118, tel: (314) 664-9300, fax: (314) 664-9301, john@shelterworks.com, www.shelterworks.com, Manufacturing Rep: Russell Resources, Inc.
Sorensen Systems LLC  Booth #479
Sorensen Systems has over 50 years of experience with new installations, refurbishment projects and hydro station automation for the hydroelectric, power generation, water and waste-water industries providing electro-hydraulic governors, gate-operating systems and hydraulic power units.
Contact: John Ford, 70 Bearfoot Rd, Northborough, MA 01532, tel: (508) 399-7660, fax: (508) 393-6042, jford@sorensensystems.com, www.sorensensystems.com, Manufacturing Rep: Atlantic Fluid Technology, Inc.

Sustainable Generation  Booth #B
Contact: Scott Woods, 3 Braeburn Road, Chelmsford, MA 01824, tel: (978) 678-6947, scott.woods@sustainable-generation.com

Swan Analytical USA  Booth #454-458 & 464-466
Swan Analytical USA supplies continuous monitoring analyzers for raw and potable water. Measurements include conductivity, pH/ORP, phosphate, nitrate, ammonium, chlorine, bromine, fluoride and turbidity.
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Technology Sales Associates, Inc.  Booth #426-429 & 501-504
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Turtle Plastics  Booth #138, 139
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Booth #181

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Exhibits
Exhibit Booths #101–217
Back Bay Exhibit Hall
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Clarendon*
Dartmouth*
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Regis
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4th Floor
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Salons F thru K and Foyer
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Salons A thru E
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