



Bradley Moore  
2014 NEWEA President

**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.

**Table of Contents**

Executive Committee ..... 2  
 Committees ..... 2  
 Conference Events ..... 4  
**TECHNICAL SESSIONS:**  
 Monday ..... 8  
 Tuesday ..... 14  
 Wednesday ..... 20  
 Poster Board Displays .... 27  
 Session Moderators ..... 28  
 Program Presenters ..... 29  
 Floor Plans ..... 32  
 Business Meeting..... 38  
 Guest Program ..... 39  
 Exhibitor Directory and  
 Booth Listings ..... 40

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 2014 EXECUTIVE COMMITTEE

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Meeting Management Director Meg Tabacsko  
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WEF Delegate (10/12) Howard Carter  
WEF Delegate (10/13) Michael Wilson  
WEF Delegate (10/14) Daniel Bisson

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Rhode Island Janine Burke  
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Outreach Council Thomas Groves  
Treatment, Systems Operations and Management Council Priscilla Bloomfield

## NEWEA 2014 COUNCILS

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Public Awareness Committee\* Jennifer Lachmayr  
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## NEWEA 2014 COUNCILS (CONTINUED)

### Meeting Management Council

Conference Arrangements Committee Ronald Tiberi  
Exhibits Committee Amy Anderson  
Manufacturers' Representative Committee James DeLuca  
Program Committee Susan Guswa  
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Journal Committee Helen Gordon  
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Newsletter Committee Geraldine Ciardelli  
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### 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 Digiacomio  
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

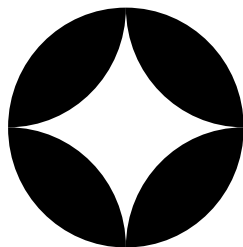
Government Affairs Committee Peter Grose  
Humanitarian Assistance & Grants Committee Tim Vivian  
Membership Committee George Vercelli  
Project Delivery Alternatives Committee Michael Curtis  
Public Education Committee Elena Proakis Ellis  
Safety Committee Shannon Eyler  
Scholarships Committee Nicholas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

\* Ad hoc

# NEWEA 2015 Annual Conference & Exhibit

January  
25–28

BOSTON MARRIOTT  
COPLEY PLACE  
BOSTON, MA



**NEWEA**  
WORKING FOR WATER QUALITY

## Conference Events

### SUNDAY, JANUARY 25

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

### MONDAY, JANUARY 26

<b>Registration – 4th Floor</b>	7:00 AM–6:00 PM
<b>Speakers' Breakfast</b> – Hyannis	7:30–8:30 AM
<b>Coffee and Continental Breakfast</b> 3rd Floor Atrium	7:30–9:00 AM
<b>NEWEA Annual Business Meeting</b> – Vineyard Welcome and Opening Remarks: Brad Moore, NEWEA President/City of Bangor, ME Presentation and vote on 2015 Slate of NEWEA Officers. <i>See description on page 38</i>	8:00–8:30 AM
<b>Technical Sessions 1–6</b> <i>See descriptions beginning on page 8</i>	8:30–10:30 AM
<b>Exhibit Hall Grand Opening</b> 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.	10:30 AM
<b>Exhibits</b> 3rd and 4th Floor Exhibit Areas Please note that the 3rd and 4th floor exhibit areas are connected by a stairwell in the back of exhibit hall. <i>Exhibit directory and booth locations pages 40–64</i>	10:30 AM–6:30 PM

### MONDAY, JANUARY 26 (CONTINUED)

<b>Opening Session</b> – Salon E ( <i>see description on page 7</i> ) Featured Speaker—U.S. Senator William “Mo” Cowan	11:00 AM
<b>Professional Poster Board Displays/Session</b> – 4th Floor Coordinator: Lauren Hertel, Stantec	8:30 AM–4:30 PM <i>Session with authors: 1:30–3:30 PM</i>
<b>Select Society of Sanitary Sludge Shovelers' Lunch</b> by invitation – Charles Tyler, Influent Integrator – Exeter/Dartmouth	Noon–2:00 PM
<b>Young Professionals Outreach/Mentoring Program</b> – Vineyard 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	Noon–1:30 PM
<b>Technical Sessions 7–12</b> <i>See descriptions beginning on page 11</i>	2:00–4:30 PM
<b>Exhibit Hall Break</b>	3:00–3:30 PM
<b>Exhibit Hall Reception</b> – 3rd Floor Exhibit Area	4:30–6:30 PM

### TUESDAY, JANUARY 27

<b>Registration – 4th Floor</b>	7:00 AM–6:00 PM
<b>Speakers' Breakfast</b> – Hyannis	7:30–8:30 AM
<b>Guest Program</b> – Regis ( <i>see description on page 39</i> )	7:30 AM–4:00 PM
<b>NEWEA Presidents' Breakfast</b> – Champions by invitation	8:00–9:00 AM
<b>Exhibits</b> 3rd and 4th Floor Exhibit Areas	8:00 AM–6:00 PM
<b>Technical Sessions 13–18</b> <i>See descriptions beginning on page 14</i>	9:00–11:30 AM
<b>Graduate Student Technical Session 1</b> – Dartmouth	9:00–11:30 AM
<b>College Student Poster Board Competition</b> – 4th Floor Coordinator: Thomas Groves, NEIWPCC	9:00 AM–3:30 PM <i>Session with authors: 12:30–2:00 PM</i>
<b>Exhibit Hall Break</b>	10:00–10:30 AM
<b>Operator's Reception</b> – Berkeley 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	Noon–1:30 PM
<b>Technical Sessions 19–24</b> <i>See descriptions beginning on page 17</i>	1:30–4:00 PM
<b>Graduate Student Technical Session 2</b> – Dartmouth	1:30–4:00 PM
<b>Exhibit Hall Break</b>	2:30–3:00 PM
<b>Exhibit Hall Reception</b> – 4th Floor Exhibit Area	4:00–6:00 PM

**WEDNESDAY, JANUARY 28**

<b>Registration – 4th Floor</b>	7:30 AM–2:00 PM
<b>Speakers' Breakfast – Hyannis</b>	7:30–8:30 AM
<b>WERF Supporter Breakfast – Vineyard</b> (by invitation)	7:30–8:30 AM
<b>Exhibits</b> 3rd and 4th Floor Exhibit Areas	8:00 AM–1:00 PM
<b>Technical Sessions 25–29</b> <i>See descriptions beginning on page 20</i>	8:30–11:00 AM
<b>Exhibit Hall Break</b>	9:30–10:00 AM
<b>Mr &amp; Mrs Fish Presentation – 3rd Floor Atrium</b> <i>The Mystery of the Clam</i> (two performances)	9:30 AM & 11:30 AM  3rd Floor Atrium
<b>NEWEA Awards Ceremony and Lunch – Salon E</b> (ticket required)	11:00 AM–1:00 PM
<b>Exhibit Area Brunch</b> The exhibit area brunch will be held in both the 3rd and 4th floor exhibit areas.	11:00 AM–1:00 PM
<b>Technical Sessions 30–33</b> <i>See descriptions beginning on page 23</i>	1:00–3:00 PM
<b>Adjourn</b>	3:00 PM

# Opening Session

**MONDAY, JANUARY 26****11:00 AM • Salon E**

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.

*U.S. Senator William “Mo” Cowan*

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

MONDAY 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

Session 1  
Salon A/B

### *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

### *The DEMON® Process: Resource Savings Through Sidestream Centrate Treatment*

– Andrea Nifong, World Water Works

### *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

Session 2  
Simmons

### *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 Votruba, 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*

– Laurel Royer, Exponent

MONDAY TECHNICAL SESSIONS 1 – 6 (CONTINUED)

8:30–10:30 AM

## CSO I—INNOVATIVE APPROACHES IN ADDRESSING REGULATORY WET WEATHER REQUIREMENTS

Moderators: James Drake, CDM Smith  
Melissa Recos, BETA Group

Session 3  
Salon C/D

### *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 Gardiner, 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 Integration 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

Session 4  
Suffolk

### *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

**MONDAY TECHNICAL SESSIONS 1 – 6 (CONTINUED) 8:30–10:30 AM**

**SUSTAINABILITY I—SUSTAINABILITY IS EVERYWHERE** Session 5  
 Moderators: Helen Gordon, Woodard & Curran Wellesley  
 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** Session 6  
 Provincetown

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.

**MONDAY TECHNICAL SESSIONS 7 – 12 2:00–4:30 PM**

Exhibit Hall Break 3:00–3:30 PM

**HOT TOPIC—EMERGING TECHNOLOGIES** Session 7

Moderators: Shelagh Connelly, RMI Salon A/B  
 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 (WWR)**

– Anastasia Rudenko, GHD  
 Marc Drainville, GHD

**Ultrafiltration Membranes for Water Reuse Applications**

– Kevin Phillips, Koch

**BREAKING NEWS FROM THE REGULATORY COMMUNITY** Session 8

Moderators: Jessica Cajigas, Comprehensive Environmental Inc. Simmons  
 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 Keaney, Brown and Caldwell Salon C/D  
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  
Moderators: Aubrey Strause, Fuss & O'Neill, Inc. Suffolk  
Glenn Haas, Brown and Caldwell

***Stormwater Management Performance and Maintenance of a Permeable Interlocking Concrete 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 Overlay 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  
Wellesley

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 Pery, 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** Session 12  
**WHAT'S HOT IN ASSET MANAGEMENT** Suffolk

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

**HOT TOPIC—REVOLUTIONIZING TRAINING**

Session 13

Moderators: David Van Hoven, MWH Global  
Jaclyn Harrison, NEIWPCC

Provincetown

**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 &amp; 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  
Mary White, MWRA

Suffolk

**The “Puro” Project- Bolivia**– Kelli Lynch, Northeastern University  
Ian McLarney, 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

**INSTRUMENTATION AND AUTOMATION— EXPANDING THE WORLD OF INSTRUMENTATION, AUTOMATION AND IT**

Session 15

Simmons

Moderators: John Trofatter, Duperon Corporation  
James Spitzer, CDM Smith**Dynamic Pump Optimization and On Demand Condition Assessment**– Marc Buchwald, Schneider Electric  
Jeff Miller, Schneider Electric  
Sam Lauffenbuger, 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

Session 16

**BALANCING PHOSPHORUS REMOVAL WITH SUSTAINABILITY**

Wellesley

Moderators: Tom Hazlett, Woodard and Curran  
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 &amp; Curran



**COLLECTION SYSTEMS I—LEAKY SYSTEM?  
PUT A CORK IN IT!** Session 17  
Salon C/D

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** Session 18  
Salon A/B

Moderators: Virginia Roach, CDM Smith  
Angela Blanchette, City of Saco, ME

***One RDA—Two Approaches***

–Vonnies 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

**HOT TOPIC—PROCESS MONITORING AND CONTROL** Session 19  
Suffolk

Moderators: Patricia Passariello, Weston & Sampson  
Joseph Nerden, 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***

–Daniel Roop, Tighe & Bond  
Kaela Wiklund, Town of North Attleborough, MA

**UTILITY MANAGEMENT I/SUSTAINABILITY II** Session 20  
Salon A/B

**THE TIDES ARE RISING—UTILITIES RESPONDING TO CLIMATE CHANGE**

Moderators: Seth Garrison, Woodard & Curran  
Ian Catlow, 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

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

**PLANT OPERATIONS II—PLANT OPERATIONS POTPOURRI** Session 21  
Moderators: Ben Levesque, Tighe & Bond  
Jon Hume, Wright Pierce Simmons

**Odor Control Optimization – Extending your Carbon Life**

–David Michelsen, South Essex Sewerage District  
Eric Barber, South Essex Sewerage District  
Rick Delacono, 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 Sciarrino, 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** Session 22  
Moderators: Phil Forzley, Fuss & O’Neill  
Jennifer Johnson, Nitsch Engineering Wellesley

**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

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

**OPERATOR INGENUITY** Session 23  
Moderators: Timothy Vadney, Wright-Pierce  
Ray Vermette, City of Dover, NH Provincetown

**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** Session 24  
**MODELS, DEEP EXCAVATIONS AND HURRICANES, OH MY!** Salon C/D  
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

**HOT TOPIC—MANAGING STORMWATER ASSETS** Session 25  
Moderators: Matthew St. Pierre, Tata & Howard Salon A/B  
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 —HOW COMMUNITIES ARE MANAGING WET WEATHER** Session 27  
Suffolk  
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

Moderators: David Press, Kleinfelder  
Lindsey Brough, Wright Pierce

***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-Valtierra, University of Rhode Island  
– James McCaughey, Narragansett Bay Commission

***Fine Tuning a BNR Process to Meet Stringent Total Nitrogen Requirements***

– John Gallegos, CDM Smith

**WEDNESDAY TECHNICAL SESSIONS 25 – 29  
(CONTINUED)**

**8:30–11:00 AM**

*Exhibit Hall Break 9:30–10:00 AM*

**PUBLIC EDUCATION—AWARD-WINNING PUBLIC  
EDUCATION SUCCESSES**

Session 29  
Simmons

Moderators: Danielle Gallant, CDM Smith  
Deborah Mahoney, Hazen and Sawyer

***Narragansett Bay Commission's Public Outreach: Educating Youth and  
Engaging Stakeholders***

– Pamela Reitsma, Narragansett Bay Commission  
– Cynthia Morissette, Narragansett Bay Commission  
– Christine Comeau, Narragansett Bay Commission

***A Novel Photocatalytic Pervious Composite for Wastewater Reuse***

– Deepika Kurup, Nashua High School South

***NEWEA Schoolkit Demonstration and Information Session***

– Leonard Young, MWRA  
– Danielle Domingos, MassEEA

***Water Quality Education in Billerica—A 20-Year Success Story***

– Jeffrey Kalmes, Town of Billerica, MA

**WEDNESDAY TECHNICAL SESSIONS 30 – 33**

**1:00–3:00 PM**

**HOT TOPIC—INFRASTRUCTURE RESILIENCY**

Session 30

Moderators: Jeff Cantwell, Flow Assessment  
Mary White, MWRA

Salon C/D

***Microgrids to Support Critical Infrastructure***

– Kenneth Geisler, Siemens

***“Taking the Next Step” in Adaptation Planning and Implementation in  
Ogunquit, ME***

– Ed Leonard, Wright-Pierce  
– Phil Pickering, Town of Ogunquit, ME

***Safeguarding Vital Wastewater Infrastructure: A Strategic Climate Risk &  
Triple Bottom Line Adaptation Framework***

– Anni Luck, Hazen and Sawyer  
– Laura Bendernagel, Hazen and Sawyer  
– Pinar Balci, NYC DEP  
– Alan Cohn, NYC DEP

***BWSC Climate Change Risk Assessment, Findings and Mitigation/Adaptation  
Strategies for Wastewater and Storm Drainage***

– William McMillin, CH2M HILL  
– John Sullivan, Boston Water and Sewer Commission  
– Charlie Jewell, Boston Water and Sewer Commission

**ASSET MANAGEMENT II**

Session 31

**HOW TO START AND CONTINUE AM**

Provincetown

Moderators: John Rogers, Consultant

John Jackman, Hoyle, Tanner & Associates

***Asset Management—Even a Journey of 10,000 Miles Starts with a Single Step***

– Joseph Ridge, CDM Smith  
– Jeff Claus, CDM Smith

***Spring 2014 Specialty Conference White Paper Forum***

– John Rogers, Consultant

RESIDUALS II/SUSTAINABILITY III Session 32  
**A SUSTAINABLE FUTURE FOR BIOSOLIDS** Simmons

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 Tuneblom, 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 Session 33  
**IF YOU BUILD IT, THE SEWER WILL COME** Suffolk

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

Moderator: Annalisa Onnis-Hayden, Northeastern University Dartmouth

**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  
*Exhibit Hall Break 2:30–3:00 PM*

Moderator: Jerry Hopcroft, Wentworth Institute of Technology Dartmouth

**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) Exhibit Hall Break 2:30–3:00 PM

### 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

Moderator	Affiliation	Session No.
Gary Arthur	FRPI	12
James Barsanti	Town of Framingham, MA	1
Angela Blanchette	City of Saco, ME	18
Brian Braginton-Smith	AquaGen ISI	2
William Brink	City of Stamford, CT	26
Lindsey Brough	Wright-Pierce	28
Jessica Cajigas	Comprehensive Environmental	8
Jeff Cantwell	Flow Assessment Services	30
Cynthia Castellon	Tighe & Bond	4
Ian Catlow	Tighe & Bond	20
Geraldine Ciardelli	City of Nashua, NH	1
Shelagh Connelly	Resource Management, Inc.	7
Stacey DePasquale	Stacey D. Pasquale Engineering	17
Mark Drainville	GHD Inc.	11
James Drake	CDM Smith	3
Courtney Eaton	Carollo Engineering	32
Phil Forzley	Fuss & O'Neill	22
Steven Freedman	AECOM	27
Danielle Gallant	CDM Smith	29
Seth Garrison	Woodard & Curran	20
Peter Garvey	Dewberry	24
Helen Gordon	Woodard & Curran	5
Katherine Goyette	Kleinfelder	25
Jeff Gregg	GHD Inc.	11
Glenn Haas	Brown and Caldwell	10
Ivonne Hall	CT DEEP	27
Jaclyn Harrison	NEIWPCC	13
Tom Hazlett	Woodard & Curran	16
Jerry Hopcroft	Wentworth Institute of Technology	Student Session 2
Jon Hume	Wright-Pierce	21
John Jackman	Hoyle, Tanner & Associates	12, 31
Jennifer Johnson	Nitsch Engineering	22
Jonathan Keaney	Brown and Caldwell	9
Jonathan Kunay	CDM Smith	14
Ben Levesque	Tighe & Bond	21
Deborah Mahoney	Hazen and Sawyer	29
J. Kenneth Maltese	Maltese & Associates	5
Christopher Muller	Brown and Caldwell	32
John Murphy	Stantec	33
Joseph Nerden	MassDEP	19
Annalisa Onnis-Hayden	Northeastern University	Student Session 1
Patricia Passariello	Weston & Sampson	19
George Pendleton	Martinez Couch & Associates	24
Laurie Perkins	Wright-Pierce	6

Moderator	Affiliation	Session No.
David Press	Kleinfelder	28
Melissa Recos	BETA Group	3
Kerry Reed	Town of Framingham, MA	6
Virginia Roach	CDM Smith	18
John Rogers	CH2M HILL	31
Ed Rushbrook	Process Analysts	16
Jay Sheehan	Woodard & Curran	26
Elaine Sistare	CDM Smith	9
Alan Slater	MassDEP	8
James Spitzer	CDM Smith	15
Matthew St. Pierre	Tata & Howard	25
Aubrey Strause	Fuss & O'Neill	10
Dennis Sullivan	National Water Main Cleaning Co.	33
Nick Tooker	Northeastern University	7
Charles Tripp	Tighe & Bond	17
John Trofatter	Duperon Corporation	15
Tim Vadney	Wright-Pierce	23
David Van Hoven	MWH Global	4, 13
Ray Vermette	City of Dover, NH	23
Mary White	MWRA	14, 30
Meredith Zona	Fay, Spofford & Thorndike	2

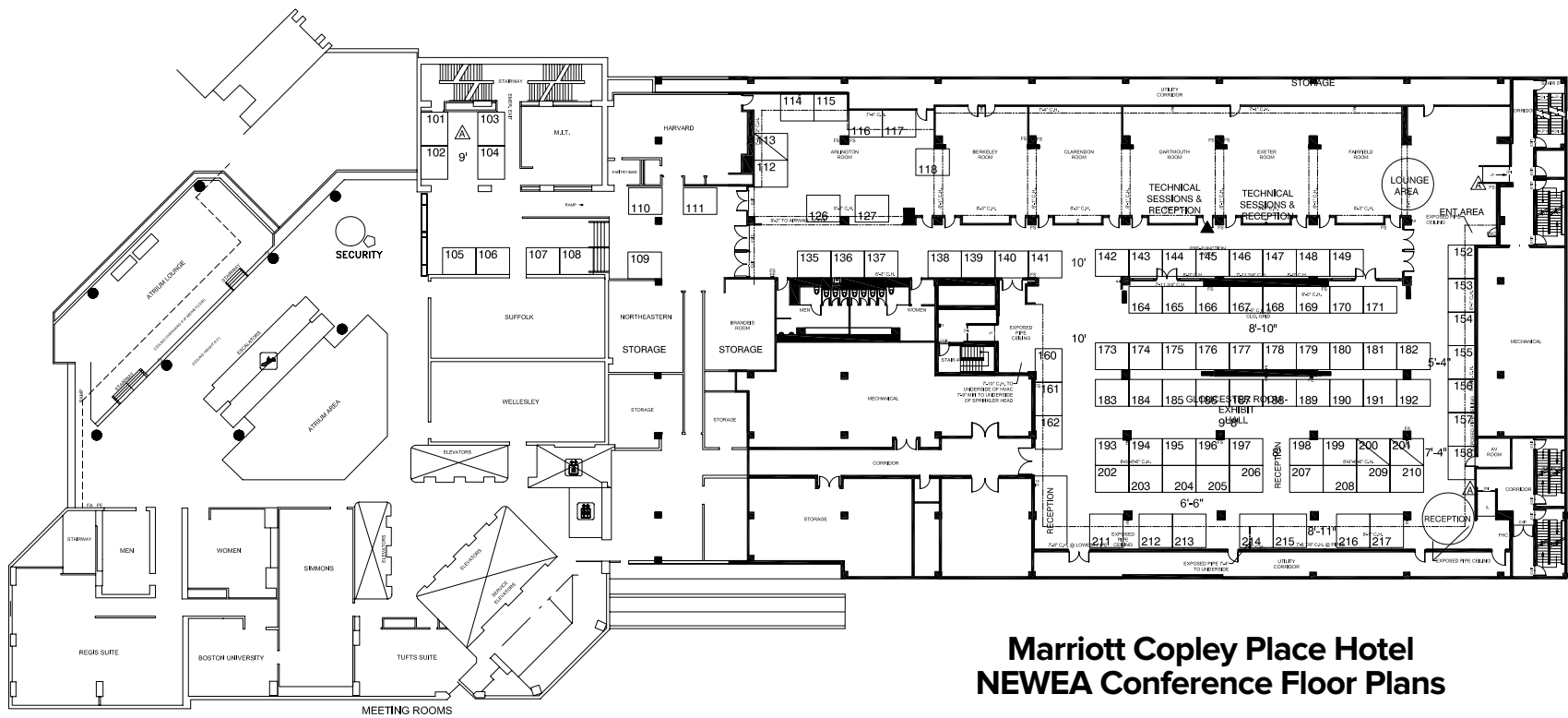
# Presenters

Presenter	Affiliation	Session No.
John Adie	City of Nashua, NH	9
Jose Ricardo Alvarez Corena	Worcester Polytechnic Institute	7
Sebastian Amenta	Comprehensive Environmental, Inc.	22
Paula Anania	City of Portsmouth, NH	23
Nicholas Anderson	MWH Global	33
Sarah Antolick	Worcester Polytechnic Institute	14
Brian Armet	The Mattabassett District	9
Frank Ayotte	Hazen and Sawyer	27
Lee Azinheira	Town of Mansfield, MA	26
Mike Baker	City of Portsmouth, NH	23
Pinar Balci	NYC DEP	30
Rebecca Balke	Comprehensive Environmental, Inc.	22
David Banning	Black & Veatch	28
Eric Barber	South Essex Sewerage District	21
James Barnard	Black & Veatch	7
Richard Barry	Town of Westwood, MA	17
James Barsanti	Town of Framingham, MA	24
Wayne Bates	Capaccio Environmental Engineering	5
David Bedoya	MWH Global	18
Laura Bendernagel	Hazen and Sawyer	30

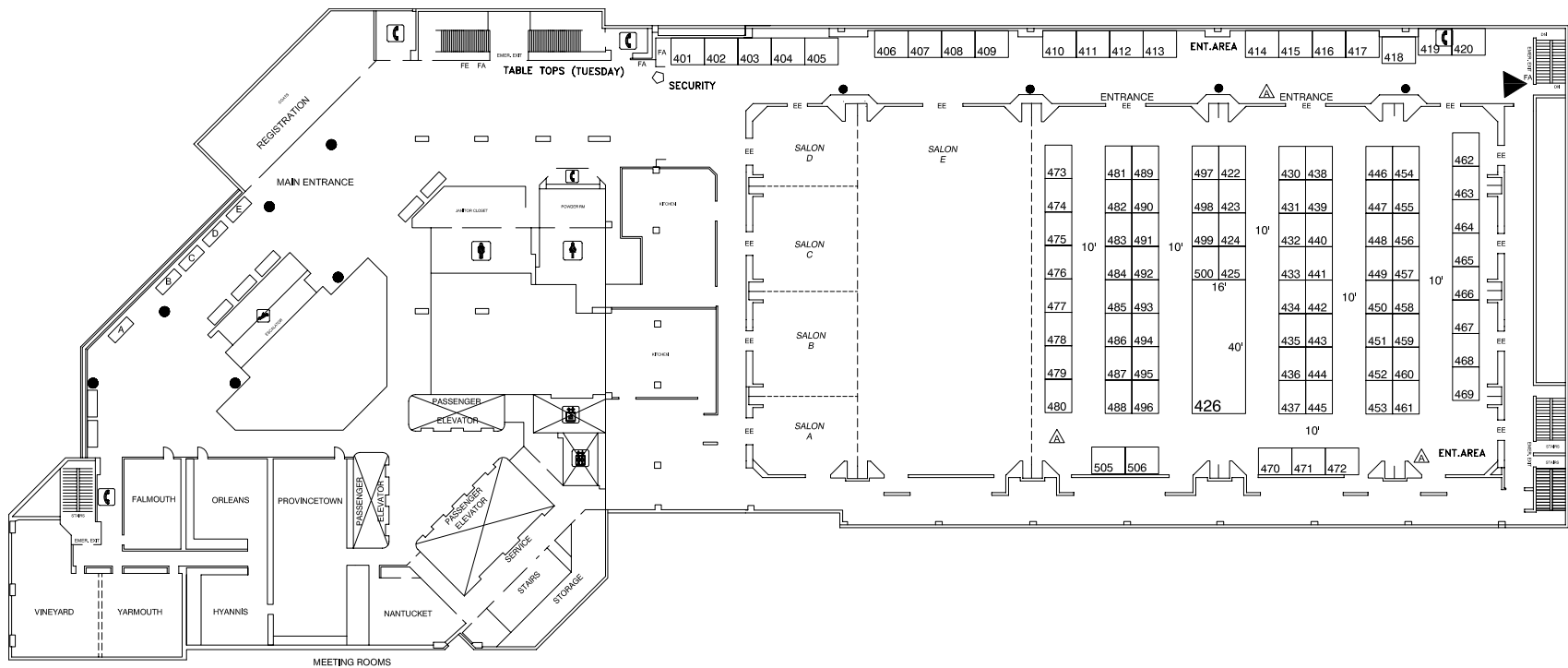
<b>Presenter</b>	<b>Affiliation</b>	<b>Session No.</b>
John Bergendahl.....	Worcester Polytechnic Institute .....	2, 7
Katelyn Biedron .....	CDM Smith.....	17
Jeffrey Bina .....	Town of Westwood, MA.....	17
Emily Bird.....	NEIWPC .....	22
Zachary Bodkin.....	University of Maine (Orono).....	26
David Bowen.....	Wright-Pierce .....	16
Robert Bowker.....	Bowker and Associates.....	21
Andrea Braga.....	Geosyntec Consultants, Inc. ....	10, 15
Kevin Brander.....	MassDEP.....	8
Elizabeth Brannon.....	University of Rhode Island .....	28
Paul Brinkman.....	Wright-Pierce .....	17
Roger Brooks.....	City of Leominster, MA.....	32
Jeanette Brown .....	JJ Environmental .....	22
Thomas Brueckner .....	Narragansett Bay Commission .....	33
Marc Buchwald .....	Schneider Electric.....	15
Robert "Brutus" Cantoreggi .....	Town of Franklin, MA.....	18
Carlos Cardoso.....	Town of Dartmouth, MA.....	32
Doug Clark .....	City of Gardiner, ME.....	3
Jeff Claus .....	CDM SMith.....	31
Kevin Cleary.....	Town of Smithfield, RI.....	16
David Cockburn.....	Wright-Pierce .....	20
Bruce Cohen.....	CSL Services, Inc.....	27
Gary Cohen.....	Hall & Associates.....	3
Alan Cohn.....	NYC DEP .....	30
Christine Comeau .....	Narragansett Bay Commission .....	29
Helen Cope.....	University of Edinburgh, UK.....	Student Session 1
William Cotter .....	CDM Smith.....	27
James Courchaine.....	Tata and Howard .....	26
Joe Crosby.....	Narragansett Bay Commission .....	23
Alan Davis.....	Hazen and Sawyer.....	12
Dan Davis.....	Brown and Caldwell .....	21
Peter DeFronzo .....	Fay, Spofford & Thorndike .....	9
Rick Delacono .....	South Essex Sewerage District.....	21
Rowland Denny.....	CT DEEP .....	8
Mary Jane Dillingham .....	Auburn Water District/Lewiston Water Division .....	6
Paul Dombrowski .....	Woodard & Curran .....	13, 21
Danielle Domingos .....	MassEEA .....	29
Robert Domkowski .....	Xylem, Inc. - Flygt .....	33
Alexandra Doody.....	CDM Smith.....	1
Scott Dorner.....	Hach Company .....	15
Marc Drainville.....	GHD Inc. ....	7, 11
James Drake.....	CDM Smith.....	10
Michael Drinkwater.....	Truckee Meadows WRF, Nevada....	Student Session 2
Gregory Duffy.....	BioChem Technology, Inc.....	19
Jessica Dzwonkoski.....	JKMuir .....	4
Zachary Eichenwald.....	CDM Smith.....	6
Alistair Elfick.....	University of Edinburgh, UK.....	Student Session 1

<b>Presenter</b>	<b>Affiliation</b>	<b>Session No.</b>
Wayne Elliott .....	Aldrich + Elliott, PC.....	33
David Elmer.....	Weston & Sampson .....	25
Robert Emerick.....	Stantec.....	7
Magdi Farag.....	NYC DEP .....	27
Joshua Farmer.....	Hazen and Sawyer.....	24
Marina Fernandes.....	CDM Smith.....	17
Martha Fernandes.....	MWH.....	33
David Ferris.....	MassDEP.....	8
Scott Firmin .....	Portland Water District .....	26
Mario Francucci .....	Black & Veatch .....	4, 28
Steven Freedman.....	AECOM.....	3
Dana Frye .....	Fuss & O'Neill, Inc. ....	21
Ken Gagnon.....	City of Westfield, MA .....	23
John Gallegos .....	CDM Smith.....	28
Nancy Gallinaro .....	City of Portland, ME .....	25
Sarah Galst.....	Hazen and Sawyer.....	13
Jeff Gamelli .....	City of Westfield, MA.....	23
Seth Garrison.....	Woodard & Curran .....	26
Julia Gass.....	Black & Veatch .....	4
Kenneth Geisler.....	Siemens.....	30
Michael Giggey.....	Wright-Pierce .....	32
Bob Gorham.....	MWRA .....	9
Patrick Greeley.....	Boston Water and Sewer Commission.....	12
Kerry Griffin.....	South Essex Sewerage District.....	21
Thomas Groves .....	NEIWPC .....	13
April Gu.....	Northeastern University .....	Student Session 1, 2
Susan Guswa.....	Tighe & Bond.....	16
John Hall .....	Hall & Associates.....	3, 22
William Hall.....	Hall & Associates.....	22
Melissa Hamkins.....	Wright-Pierce .....	9
Amine Hanafi .....	Woodard & Curran .....	21
Mike Hanna .....	Black & Veatch .....	4
Leeann Hanson.....	JETCC .....	13
John Harper .....	CDM Smith.....	17
Fred Hart.....	Worcester Polytechnic Institute .....	7
Merrill Hastings .....	Town of North Attleborough, MA .....	16
Jiren He.....	MWH Global.....	4
Scott Horsley .....	Horsley Witten Group .....	11
John Horton.....	North Attleborough WWTF, MA .....	Student Session 2
James Houle.....	University of New Hampshire.....	10
Chris Hubbard.....	Huber Technology, Inc .....	4
Caitlin Hunt.....	NYC DEP .....	4
Justin Irving .....	Hazen and Sawyer.....	19
Mary Kristin Ivanovich.....	Woodard & Curran .....	20
Ajay Jadhav.....	CDM Smith.....	15
Matthew Jermine.....	Fuss & O'Neill, Inc .....	17
Charlie Jewell.....	Boston Water and Sewer Commission.....	18, 20, 30





## Marriott Copley Place Hotel NEWEA Conference Floor Plans



<b>Presenter</b>	<b>Affiliation</b>	<b>Session No.</b>
Sam Jeyanayagam .....	CH2M HILL .....	1
Roland Jezek.....	Black & Veatch .....	7
Dick Johnson.....	Utility Service Group .....	33
Gary Johnson.....	Environmental Engineering Consultant .....	19
Mark Johnson.....	Upper Blackstone WPAD .....	1
Rick Johnson.....	Clearas Water Recovery .....	1
Jeffrey Kalmes.....	Town of Billerica, MA.....	29
Ziad Kary.....	Environmental Partners Group, Inc.....	24
Ernie Kelley .....	VT DEC .....	8
Scott Kelley.....	Utility Service Group .....	33
Kathryn Kelly .....	Narragansett Bay Commission .....	33
Steven Kestel.....	BioChem Technology, Inc.....	19
Wendell Khunjar .....	Hazen and Sawyer.....	1
Harvey King.....	Woodard & Curran .....	21, 23
Benjamin Kirby .....	Hall & Associates.....	22
Bruce Kirkland.....	Greater New Haven WPCA.....	3, 27
Ed Kobylinski .....	Black & Veatch .....	7
Bernadette Kolb.....	CDM Smith.....	6
Todd Korchin.....	Town of Westwood, MA.....	17
Jonathan Kunay .....	CDM Smith.....	24
Deepika Kurup .....	Nashua High School South.....	29
Ron Latimer .....	Hazen and Sawyer.....	1
Sam Lauffenburger .....	Specific Energy .....	15
Shawn Lavoie .....	CDM Smith.....	10
Eric Lemont.....	AECOM.....	3
Ed Leonard .....	Wright-Pierce .....	30
Yan Li.....	University of Connecticut.....	Student Session 2
Yueyun Li.....	Northeastern University .....	Student Session 1, 2
Dingfang Liu.....	CH2M HILL .....	3, 18
Dingnan (Matthew) Lu .....	University of Massachusetts Lowell .....	Student Session 1
Alex Lopez.....	NYC DEP .....	4
Anni Luck .....	Hazen and Sawyer.....	30
Kelli Lynch.....	Northeastern University .....	14
Michael Lynch.....	Hazen and Sawyer.....	13
Jane Madden.....	CDM Smith.....	1
Deborah Mahoney.....	Hazen and Sawyer.....	32
Keith Mahoney .....	NYC DEP .....	13
Kurt Mailman .....	Fuss & O'Neill, Inc. ....	11
Daniel Marks .....	Hoyle, Tanner & Assoc., Inc. ....	3
Erik Mas.....	Fuss & O'Neill, Inc. ....	6
Dan Matnick.....	City of Peabody, MA.....	2
Jeff McBurnie.....	Casella Organics .....	9
James McCaughey.....	Narragansett Bay Commission .....	28
Maureen McClelland.....	EPA Region 1 .....	14
Scott McClelland .....	CDM Smith.....	15
William McConnell.....	CDM Smith.....	28
Mary McCrann.....	Woodard & Curran .....	20

<b>Presenter</b>	<b>Affiliation</b>	<b>Session No.</b>
Megan McDevitt .....	Woodard & Curran .....	25
Ian McLarney .....	Northeastern University .....	14
William McMillin.....	CH2M HILL .....	30
Frederick McNeill.....	City of Manchester, NH.....	24
Troy McPherson.....	Hazen and Sawyer.....	12
David Michelsen.....	South Essex Sewerage District.....	21
Jeff Miller.....	Schneider Electric .....	15
Denise Moberg.....	Fay, Spofford & Thorndike .....	9
Stephen Mongillo.....	Town of Old Saybrook, CT .....	11
Cynthia Morissette .....	Narragansett Bay Commission .....	29
Andy Morrill .....	Wright-Pierce .....	9
Serena Moseman-Valtierra.....	University of Rhode Island .....	28
Jen Muir.....	JKMuir .....	4
John Murphy.....	NEIWPCCC .....	20
John Murphy.....	Stantec.....	18
Robert Musci.....	CDM Smith .....	12
Diane Nascimento .....	Brown and Caldwell .....	21
Mark Nelson.....	Horsley Witten Group .....	22
Maureen Neville .....	CDM Smith.....	16
Andrew Newbold .....	In-Pipe Technology Company, Inc. ....	33
Jared Newell.....	CDM Smith.....	15
Paul Niedzwiecki.....	Cape Cod Commission .....	11
Andrea Nifong.....	World Water Works .....	1
Roger Norton.....	CDM Smith.....	27
William Norton .....	City of West Haven, CT .....	28
Mickey Nowak.....	United Water .....	23
Michael O'Brien .....	The MDC.....	3
Jared O'Donnell.....	CDM Smith.....	24
Owen O'Riordan.....	City of Cambridge, MA .....	18
Victor Olson .....	Stantec.....	18
Erik Osborn .....	Woodard & Curran .....	16
Robert Otoski.....	CDM Smith.....	27
Mark Owen.....	AECOM .....	11
Annalisa Onnis-Hayden .....	Northeastern University .....	Student Session 1, 2
Raymond Palmares.....	NYC DEP .....	27
Thomas Parece .....	AECOM.....	11
William Patenaude .....	RI DEM .....	13
Michael Paulin .....	Weston & Sampson .....	11
Philip Pedros.....	AECOM.....	5
Mike Pelletier.....	Lewiston-Auburn WPCA.....	32
Brian Pena .....	City of Lawrence, MA .....	26
Natalia Perez.....	NYC DEP .....	4
Erin Perry.....	Cape Cod Commission .....	11
Joseph Persechino.....	Tighe & Bond .....	10
Eric Pescatore .....	CDM Smith.....	12
Kevin Phillips.....	Koch Membrane Systems, Inc.....	7
Phil Pickering.....	Ogunquit Sewer District.....	30

<b>Presenter</b>	<b>Affiliation</b>	<b>Session No.</b>
Jeffrey Pinnette.....	Wright-Pierce .....	20, 32
William Pisano .....	MWH Global.....	18
Paul Pitt.....	Hazen and Sawyer.....	13
Brian Pitta.....	CDM Smith.....	3
Jerry Potamis.....	Town of Falmouth, MA.....	1
Amy Prouty Gill.....	City of Nashua, NH.....	27
Abdul Quadir .....	City of West Haven, CT.....	28
Marcus Quigley.....	Geosyntec Consultants, Inc. ....	10, 15
Kelsey Reeves.....	University of Connecticut.....	14
Vonnie Reis .....	Town of Milford, MA.....	18
Pamela Reitsma .....	Narragansett Bay Commission .....	29
Mohammed Reza Jafari.....	CDM Smith.....	27
Mark Richards.....	Brown and Caldwell .....	12
Clayton (Mac) Richardson.....	Lewiston-Auburn WPCA.....	32
Joseph Ridge .....	CDM Smith.....	31
Sharon Rivard .....	NH DES.....	8
Virginia Roach .....	CDM Smith.....	27
Laura Robinson .....	Kleinfelder.....	12
Mark Rode .....	General Control Systems, Inc.....	19
John Rogers.....	Consultant.....	31
Daniel Roop .....	Tighe & Bond .....	19
Phil Rosenman.....	Hall & Associates.....	3
Laurel Royer.....	Exponent.....	2
Anastasia Rudenko.....	GHD Inc. ....	7
Nicholas Rystrom.....	City of Revere, MA .....	24
Edward Sanderson .....	CDM Smith.....	1
Karla Sangrey .....	Upper Blackstone WPAD .....	Student Session 2, 2, 16
Mark Sceery.....	EPA Region 1.....	20
Emily Scerbo.....	Tighe & Bond .....	25
Jaurice Schwartz .....	Weston & Sampson .....	25
Thomas Sciarrino .....	Town of Windsor Locks, CT.....	21
Kenneth Scully.....	Fay, Spofford & Thorndike .....	32
Keisha Sedlacek.....	Hall & Associates.....	22
Julio Segarra.....	United Water.....	23
Kristy Sentori.....	Cape Cod Commission .....	11
Thomas Sgroi .....	Greater New Haven WPCA.....	3, 27
Barry Sheff.....	Woodard & Curran .....	25
Betsy Shreve .....	AECOM.....	11
Cannon Silver.....	CDM Smith.....	1
Jon Sorenson .....	Competitive Energy Services.....	5
Sofia Sotelo Ortiz .....	Northeastern University .....	14
Rebecca Stack .....	District Department of Environment.....	10
Tilo Stahl.....	BioChem Technology.....	19
Peter Stallings.....	Town of Stratford, CT.....	19
Paul Starratt.....	Town of Westford, MA.....	25
Mark Steichen .....	Black & Veatch.....	7
Carl Stone.....	Weston & Sampson .....	6

<b>Presenter</b>	<b>Affiliation</b>	<b>Session No.</b>
Aubrey Strause .....	Fuss & O'Neill, Inc. ....	6
John Sullivan.....	Boston Water and Sewer Commission.....	30
Newton Tedder.....	EPA Region 1.....	25
Peter Thomson.....	Black & Veatch .....	4
Erica Tillinghast.....	Geosyntec Consultants, Inc. ....	10
Nick Tooker.....	Northeastern University .....	Student Session 2
Steven Torres.....	Pannone Lopes Devereaux & West LLC.....	5
Hugh Tozer.....	Woodard & Curran .....	2
Hans Tuneblom.....	Veolia Water.....	32
Secil Tutar .....	University of Connecticut .....	Student Session 1
Matt Van Horne.....	Hazen and Sawyer.....	32
Jeanne VanBriesen .....	Carnegie Mellon University.....	Student Session 1
Vinta Varghese .....	CH2M HILL .....	3
Dianne Velardocchia.....	CDM Smith.....	10
Rahul Verma.....	Verma Engineering .....	6
Ray Vermette .....	City of Dover, NH.....	23
Will Von Ohlen.....	City of Virginia Beach, VA.....	12
Jeanne VanBriesen .....	Carnegie Mellon University.....	Student Session 1
Michael Votruba.....	Tighe & Bond .....	2
Kenneth Wagner.....	Water Resource Services .....	6
Jeanne Walker .....	City of Nashua, NH .....	27
Margaret Walker .....	Town of Walpole, MA.....	10
Margot Walker .....	NYC DEP .....	27
Yuqi Wang.....	Northeastern University .....	Student Session 1, 2
Yuxin Wang.....	Carnegie Mellon University .....	Student Session 1
Robert Ward.....	City of Haverhill, MA .....	26
Nic Warrens.....	CH2M HILL .....	18
Jason Waterbury.....	The MDC .....	10, 17
Dan Watnick.....	City of Peabody, MA.....	2
Elizabeth Watson.....	United Water .....	32
David Webster.....	US EPA.....	8
Bryan Weiner.....	Wright-Pierce .....	16
Teno West.....	Pannone Lopes Devereaux & West LLC.....	5
Kaela Wiklund.....	Town of North Attleborough, MA .....	19
Carl Wilcox.....	Woodard & Curran .....	2
Charles Wilson .....	Hazen and Sawyer.....	27
Robert Winn .....	Brown and Caldwell .....	12
Karen Wong .....	GHD Inc. ....	11
Zhiheng Xu.....	University of Connecticut.....	Student Session 2
David Young.....	CDM Smith.....	1, 26
Leonard Young.....	MWRA .....	29
Xiaoqi Zhang .....	University of Massachusetts Lowell .....	Student Session 1
Joseph Zongol.....	Weston & Sampson .....	6

# Annual Business Meeting

**MONDAY, JANUARY 26**

**Welcome** 8:00 AM  
**Bradley Moore**, NEWEA President 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, Priscilla 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

9:00 AM–3:00 PM

Regis

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, residential/commercial development for turf/recreational applications, retention/detention systems, on-site leaching chambers and septic systems

Contact: Aaron Cheever, 58 Wyoming Street, Ludlow, MA 01056, tel: (978) 302-0650, fax: (866) 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.

Contact: Brooke Newbry, 7927 U.S. Highway 24, Manhattan, KS 66502, tel: (480) 415-8022, brooks@aeromod.com, www.aeromod.com, Manufacturing Rep: Atlantic Fluid Technology, Inc.

## 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 DOT's 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

Proudly representing: Aerzen, Alfa Laval/Ashbrook, Amwell, Aquarius Technologies, Biochem, Continental Blower, Egger Turo Pump, FKC Co., Flowserve, Hydro International, Infilco-Degremont, Invent, JWC Environmental, L&J, Ozonia, Seepex, Severn Trent & Vogelsang.

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@aquagen-isi.ws, www.tccdevelopmentgroup.com, Manufacturing Rep: The Conservation Consortium

## Aquaturno 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, screweller technology combines highefficiency

with gentle action and complete mixing. Foam breakers and submersible mixers.

Contact: Tod Forquer, 1754 Ford Avenue, Springdale, AZ 72764, tel: (479) 927-1300, fax: (479) 927-0700, tod.forquer@aquaturno.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 briquettes containing a minimum of 65% av by weight.

Contact: Lou Finelli, 1200 Lover River Road, Charleston, TN 37310, tel: (732) 535-3308, fax: (631) 924-1012, www.lonza.com, Manufacturing Rep: Wescor Associates, Inc.

## 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@ariesindustries.com, www.ariesindustries.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.asaanalytics.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 Durning, 655 Andover Street, Lawrence, MA 01843, tel: (800) 343-3618, fax: (800) 426-7058, jdurning@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 manufacturer, 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, CSO 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 pushbuttons.

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

**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@bauhopkins.com, www.bauhopkins.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 Thickener, Gravity Belt Thickener, Compost Agitator, In Vessel Compost/Dry Systems, Onsite Service & Equipment Restoration. For the past 35 years, BDP Industries has refined and improved the performance and longevity of its equipment that is desinged 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, www.airvac.com

**Bio Organics Catalyst, Inc.****Booth #215****BioSec Enviro, Inc.****Booth #164B**

Contact: 490 York Road, Bldg D, Guelph, ON N1E 6V1, tel: (518) 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 Stergis Way, Dedham, MA 02026, tel: (800) 225-8006, fax: (781) 461-8654, bobg@gobisco.com, www.gobisco.com

**Blake Equipment Co. (SPONSOR)****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, CSI Controls, Corix, Easily Moved Equipment, QuantumFlo 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 06068, tel: (860) 986-1072, ray.bahr@bghusa.com, www.blakeequip.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 commitments to innovation and sustainability.

Contact: C.J. Strain, 10450 N. Airport Road, Hayden, ID, tel: (888) 710-2583, fax: (208) 209-0396, cjstrain@bluewater-technologies.com, www.blueh2o.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 Barrasse, 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**

Burt Process Equipment specializes in systems for Municipal and Industrial Markets. Featuring PolymerPlus & ChemPlus blending/feed systems, Flowline Radar Level Monitoring Systems & Grundfos pumps. Burt Process is proud to partner with Peabody Engineering Plastic Tank Systems, Pulsafeeder Manual Polymer Makedown Systems and Pulsatron chemical metering pumps.

Contact: Kimball Putnam, 100 Overlook Dr, Hamden, CT 06514, tel: (203) 287-1985 x307, kimballputnam@burtprocess.com, www.burtprocess.com

**Butterworth, Inc.****Booth #196**

Recognized and trusted for 90 years, Butterworth offers tank cleaning machines, systems and solutions for your tanks, vessels, wet well, lift stations, clarifiers, digesters, and sludge - BUTTERWORTH CLEARS THE F.O.G.

Contact: Joan Sherman, 16737 W. Hardy Road, Houston, TX 77060, tel: (281) 821-7300, fax: (281) 821-5550, info@butterworth.com, www.butterworth.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**

Contact: Wayne Emery, 2000 McClaren Woods Drive, Corapolis, PA 15108, tel: (724) 218-7016, fax: (724) 695-3318, wemery@calgoncarbon-us.com, www.calgoncarbon.com, Manufacturing Rep: Wescor Associates, Inc.

**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

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**Carlsen Systems, LLC** **Booth #493, 494**

**Carter Pump** **Booth #102, 104**  
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, rlopes@carterpump.com, www.carterpump.com, Manufacturing Rep: Mechanical Solutions, Inc.

**Casella Organics** **Booth #160**  
Casella Organics is an industry leader in the transportation, recycling, processing, and marketing of organic and mineral resources including short paper fiber, ash, liming agents, food wastes, biosolids, and compost. Our experience and knowledge with liquid and solid residuals help clients build, manage and maintain sustainable and effective resource solutions.  
Contact: Jen McDonnell, 135 Presumpscot St., Portland, ME 04103, tel: (207) 347-3600, jen.mcdonnell@casella.com, www.casellaorganics.com

**Cerlic Controls NE (CCNE)** **Booth #410-413 & 473-475 & 481-482 & 489-490**  
Manufacturer of a complete line of sensors to provide continuous measurement in wastewater i.e. Redox Corp, Ph, DO, Suspended Solids, Sludge Blanket both automatic and protable.  
Contact: Sean Cameron, 1060 First Ave Suite 400, King of Prussia, PA 19406, tel: (610) 768-8035, fax: (610) 337-9548, sean.cameron@cerlic.com, www.cerlic.com, Manufacturing Rep: Wescor Associates, Inc.

**Chester Engineers** **Booth #144**  
Chester Engineers, Inc. is an international engineering and program/construction management firm with an interdisciplinary staff that helps clients realize the benefits of applying sustainability principles to site planning and development projects  
Contact: April Brouwer, 1555 Corapolis Heights Road, Moon Township, PA 15108, tel: (412) 809-6655, fax: (412) 809-6611, abrouwer@chesterengineers.com, www.chesterengineers.com

**Claro Global** **Booth #438**  
Third generation Step Screen, Washer/Compactors, Shaftless Screw Conveyors, Digester Equipment including Gas Recirculation systems, Heat Exchanges, Big Bubble Gun mixers, and complete Grit Systems  
Contact: Peter Lipert, Jr., 4717 Louis-B-Meyer, Laval, QC H2V 2K8, tel: (514) 562-4585, pjr@claroglobal.com, www.claroglobal.com, Manufacturing Rep: New England Environmental Equipment

**ClearStream Environmental** **Booth #152-158, 182**  
Manufacturer of Liquid Solids Separation and biological process equipment  
Contact: Jeff Belnap, 9547 S 500 W, Sandy, UT 84070, tel: (801) 676-1890, fax: (801) 676-1893, jeff.b@clearstreameng.com, www.clearstreameng.com, Manufacturing Rep: The MAHER Corporation

**Continental Carbon Group** **Booth #454-458 & 464-466**  
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, info@continental-carbon.com, www.continental-carbon.com, Manufacturing Rep: Russell Resources, Inc.

**Coyne Chemical Environmental Svcs.** **Booth #127**  
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, kbrassard@coynechemical.com, www.coyneenvironmental.com

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**Cretex Specialty Products** **Booth #140**  
Leading manufacturer of manhole rehabilitation products, including mechanical chimney seals, PRO-RING 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 Stoneridge Dr., Ste A, Waukesha, WI 53188, tel: (262) 542-8153, fax: (262) 542-0301, rwolf@cretexseals.com, www.cretexseals.com

**CUES** **Booth #149**  
CUES provides Full-Circle Solutions for sewer line inspection and condition assessment, pipeline rehabilitation, grouting of mainline 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, www.cuesinc.com

**D.L. Thurrott, Inc.** **Booth #420**  
D.L. Thurrott represents industry's leading pump manufacturers. Take advantage of our design, engineering, and application expertise and discover that we are more than pumps..We provide complete pumping solutions.  
Contact: Scott Martin, 17 Powder Hill Road, Lincoln, RI 02865, tel: (401) 334-6880, fax: (401) 334-6881, dltr@inscogroup.com, www.dlthurrott.com

**Danfoss VLT Drives** **Booth #454-458 & 464-466**  
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: (315) 427-3036, fax: (414) 355-6117, joehalliday@danfoss.com, www.danfossdrives.com, Manufacturing Rep.: Russell Resources, Inc.

**David F. Sullivan and Associates, Inc. (BRONZE SPONSOR)** **Booth #173**  
We are proud to be highlighting some key products including BioMag & CoMag, Duperon screens, Medora Corp/SolarBee mixers as well as several solutions for low N and P limits. We are introducing ETS for in-line UV applications. Please stop by Booth #163 and learn more about Inovair's quiet and efficient turbo blowers.  
Contact: Dave Sullivan, 19 Batchelder Rd, Ste 2B, Seabrook, NH 03874, tel: (603) 474-2484, fax: (603) 474-3682, info@davidfsullivan.com, www.davidfsullivan.com

**DeZURIK, Inc.** **Booth #505**  
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, eb.fuchs@dezurik.com, www.desurik.com, Manufacturing Rep: Atlantic Fluid Technology, Inc.

**DN Tanks** **Booth #487**  
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, chris.hodgson@dntanks.com, www.dntanks.com

**Duall Division** **Booth #410-413 & 473-475 & 481-482 & 489-490**  
Duall Division has been the leader since 1964 in fabricating and marketing odor-pollution control systems. The Duall systems include horizontal and vertical chemical scrubbers, carbon absorbers, the AroBIAS Bio-Scrubber. Our high quality products combined with competitive pricing make Duall the product of choice with municipalities.  
Contact: Greg Kimmer, 1550 Industrial Drive, Owasso, MI 48867, tel: (989) 725-8184, fax: (989) 725-8188, gkimmer@cecoenviro.com, Manufacturing Rep: Wescor Associates, Inc.

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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

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**Duperon Corporation Booth #164**

Duperon Corporation is the leader in simple, adaptive screening technologies and provides solutions for coarse screening, fine screening, washer compactors and conveyance equipment.

Contact: Sarah Courtright, 1200 Leon Scott Court, Saginaw, MI 48601, tel: (989) 754-8800, fax: (989) 754-2175, www.duperon.com, Manufacturing Rep: David F. Sullivan and Associates

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**Dutchland Booth #429**

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**Eastern Pipe Service, LLC Booth #167**

Sewer system evaluation, maintenance and rehabilitation. Over 50 years experience serving New England region. Located in Bow, NH and service CT, NH, ME, RI, MA and VT.

Contact: Hubert Thompson, 2 Thibeault Dr, Bow, NH 03304, tel: (603) 424-4600, fax: (603) 856-8657, hthompson@felixseptic.com, www.easternpipeservice.com

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

BioScrubbers Equipment & Systems: Featuring "GREEN" Technology for removing Hydrogen Sulfide.

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

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**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 the most demanding applications in the industry, including SCADA compatible switches and switches that provide for Arc Flash Safety.

Contact: David Brecken, 180 King Avenue, Weymouth, MA 02188, tel: (781) 607-3325, fax: (781) 335-4253, dbrecken@electroswitch.com, www.electroswitch.com

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**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.

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**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) 225-3527, jason.bowman@entexinc.com, www.entexinc.com, Manufacturing Rep: Wescor Associates, Inc.

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**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, Columbia, MO 65202, tel: (573) 474-9456, fax: (573) 474-6988, EDI.northamerica@wastewater.com, www.wastewater.com, Manufacturing Rep: David F. Sullivan and Associates

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**Environmental One Booth #401-409**

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**Environmental Operating Solutions, Inc. Booth #441**

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

Contact: Evan Brown, 160 MacArthur Blvd., Ste 6, Bourne, MA 02532, tel: (508) 743-8440, fax: (508) 743-8443, ebrown@microc.com, www.MicroC.com

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**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

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**eRPortal Software Group, LLC Booth #204**

The eRPortal Software Group provides mobile and web-enabled Asset Management Maintenance Management and Materials Tracking software solutions for Utilities and Municipalities.

Contact: Ed Garibian, 59 Interstate Drive, Ste 30, West Springfield, MA 01089, tel: (413) 233-5400, fax: (413) 739-0299, egaribian@erportalsoftware.com, www.erportalsoftware.com

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**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

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**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 Wireless 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

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**ETS-UV by Neptune Benson Booth #165**

Since 1956 Neptune Benson has been synonymous with water filtration and disinfection serving the aquatics, 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 Commercial 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

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**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, Davis/Davco, RJ Environmental, Westates Carbon, JWI, Lyco, Rex, Link Belt, CPC Internalift, Stranco, Cambridge Water Technologies, etc.) and the performance they trust.

Contact: Robert Biase, 181 Thorn Hill Road, Warrendale, PA 15086, tel: (724) 312-3336, fax: (724) 772-1300, robert.biase@evoqua.com, www.evoqua.com, Manufacturing Rep: David F. Sullivan and Associates

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**F.R. Mahony & Associates, Inc. (SPONSOR) Booth #401-409**

Manufacturers' representative for water and wastewater treatment systems. Stocking distributor and service provider for E/One sewer systems. Manufacturer of the Amphidrome® advanced treatment solutions -- the next generation in nitrogen removal for small wastewater systems. Representing Aquionics, Environment One, Fiberglass Fabricators, Franklin Miller, Gardner Denver, High Tide, Kruger, KWS, Lightnin/SPX, MGD Process Technologies, Pinnacle Ozone, and Purafil.

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



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**F.W. Webb Co. – Process Controls Div. Booth #205**

**Fairfield Service Co. Booth #410-413 & 473-475 & 481-482 & 489-490**  
Manufacture of Catenary Bar Screens, Clan Climber Screens, Grit Collectrs, Rectangular Clarifiers, Lock Link Screens with durable raking device and belt conveyors.  
Contact: James Wilson, 2890 Harding Highway East, Suite A, Marion, OH 43302, tel: (219) 872-3000, fax: (219) 872-4327, wilsonj@fairfieldservice.com, www.fairfieldservice.com, Manufacturing Rep: Wescor Associates, Inc.

**Fay, Spofford & Thorndike (BRONZE SPONSOR) Booth #491**  
Fay, Spofford & Thorndike (FST) is a full service, multi-discipline engineering firm offering planning, condition assessments, process troubleshooting, pilot study investigations, design, permitting, construction phase administration services and on-site representation, system checkout, startup and performance testing. We celebrated our 100th anniversary in 2014!  
Contact: Tom Jenkins, 5 Burlington Woods, Burlington, MA 01803, tel: (781) 221-1000, fax: (781) 221-1086, tjenkins@fstinc.com, www.fstinc.com

**Fiber Technology Corporation Booth #454-458 & 464-466**  
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, ostevens@fibteccorp.com, Manufacturing Rep: Russell Resources, Inc.

**Fiberglass Fabricators Inc. Booth #401-409**  
FFI manufacturers FRP-Products for the water and wastewater-industries; FRP tank covers; launder-covers, weirs, baffles, density-current-baffles, troughs, stop logs, parshall-flumes, FRP grating-handrail-stairs, and custom FRP fabrications.  
Contact: Phil Dushkewich, 964 Douglas Pike, Smithfield, RI 02917, tel: (401) 231-3552, fax: 401 232 2260, pdushkewich@fibfab.com, www.fibfab.com, Manufacturing Rep: F.R. Mahony & Associates, Inc.

**Flottweg Separation Technology Inc Booth #177A**  
Flottweg is an experienced high quality ISO 9001 and EU certified supplier of dewatering and thickening centrifuges. A full line of centrifuges with the latest energy recovery, design improvements and performance enhancements is offered.  
Contact: Ed Sweeney, 143A Rowayton Ave, Norwalk, CT 06853, tel: (203) 838-6120, esweeney@flottweg.net, www.flottweg.com, Manufacturing Rep: David F. Sullivan and Associates

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**Flow Assessment Services LLC (GOLD SPONSOR) Booth #135, 136**

**FlowWorks, Inc. Booth #214**  
FlowWorks, is a powerful web-based suite of tools allowing you to perform real-time analysis, check flow-monitoring & set alarms through a single interface transforming raw data into actionable information.  
Contact: 606 Maynard Ave S, Ste 251, Seattle, WA 98104, tel: (206) 859-6999, sales@flowworks.com, www.flowworks.com

**Flygt Products – A Xylem Brand Booth #141**  
FLYGT, a Xylem brand, is the world's leading manufacturer of submersible pumps and mixers for the municipal and industrial markets. They are ideally suited for wastewater and clean water applications.  
Contact: Brendan Kennedy, 78K Olympia Avenue, Woburn, MA 01801, tel: (781) 935-6515, fax: (781) 938-0364, brendan.kennedy@xylem.com, www.xylem.com

**Ford Hall Company Booth #176B**  
Weir-Wolf is a stainless steel, spring-loaded brush system for cleaning the weirs, baffles and lauders of circular clarifiers and thickeners with 1,900 units installed in the U.S.  
Contact: Scott Perry, PO Box 2110, Richmond, KY 40476, tel: (859) 624-1077, fax: (859) 624-3320, sperry@fordhall.com, www.weir-wolf.com, Manufacturing Rep: David F. Sullivan and Associates; GP Jager

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**Fournier Industries, Inc. Booth #454-458 & 464-466**

Contact: Brett McQuade, 2714 3rd Avenue West, Bradenton, FL 34205, tel: (941) 748-8549, b.mcquade@rotary-press.com, www.fournierindustries.com/EN/index.aspx, Manufacturing Rep: Russell Resources, Inc.

**Franklin Miller, Inc. Booth #401-409**  
An innovative force in wastewater grinding for in-line, open channel, septic receiving, screening technology, and gravity systems.  
Contact: Joe Macula, 60 Okner Parkway, Livingston, NJ 07039, tel: (973) 533-6457, fax: (973) 535-6369, jmacula@franklinmiller.com, www.franklinmiller.com, Manufacturing Rep: F.R. Mahony & Associates, Inc.

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**G.L. Lyons Associates Booth #178, 179**

**Gabriel Novac & Associates Ltd. Booth #175**  
GNA designs and manufactures CSO and stormwater equipment such as the HYDROSLIDE flow regulators, HYDROSELF, HYDROSELF ROUND, HYDROFLUSH, and AUTOFLUSH flushing systems; HYDROSTYX storage maximizer, HYDROM.E.S.I. stormwater treatment, HYDROCLEAN fine brush screen, HYDROSCREEN fine raked bar screen, HYDROSWITCH, HYDROCHECK, HYDROGUARD & HYDROBEND complete the GNA, Inc. CSO product line. "NEW" HYDROK Fine Screen.  
Contact: Gabriel Novac, 11 Spellman Rd., Plattsburgh, NY 12901, tel: (866) 746-2276, fax: (514) 336-2882, gnovac@gnaco.com, www.gnaco.com, Manufacturing Rep: David F. Sullivan and Associates

**Gardner Denver Nash LLC Booth #401-409**  
Gardner Denver manufacturers and supplies multistage centrifugal air blowers and high-speed turbo blowers to the wastewater industry for aeration, mixing and gas handling applications  
Contact: Rob Mears, PO Box 130, Bentleyville, PA 15314, tel: (724) 239-1500, fax: (724) 239-1503, rob.mears@gardnerdenver.com, www.hoffmannandlamson.com, Manufacturing Rep: F.R. Mahony & Associates, Inc.

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**GE Water & Process Technologies Booth #429**

**Geomembrane Technologies Inc. Booth #210**  
Geomembrane Technologies Inc. (GTI) offers a selection of innovative tank and lagoon covers - as well as containment liners - for water and wastewater applications worldwide.  
Contact: Mike Lever, 370 Wilsey Road, Fredericton, NB E3B 6E9, tel: (855) 484-4630, fax: (506) 452-6625, covers@gticovers.com, www.gticovers.com

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**Godwin Pumps of America – A Xylem Brand Booth #418**

**Grande Water Management Systems Booth #488**  
Combined Sewer Overflow (CSO) Abatement, Sanitary Sewer Overflow (SSO) Elimination, Storm Water and Waste Water Management Equipment, Tank & Sewer Flushing, Overflow Control & Screening, Flow Regulation, Floatables Retention, Backflow & Flood Prevention.  
Contact: Francis Grande, 3950 Montee Masson, Laval, QC H7B 1C4, tel: (450) 315-1115, fax: (450) 315-1355, sales@grandeinc.com, www.grandeinc.com, Manufacturing Rep: Atlantic Fluid Technology, Inc.

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**Green Mountain Pipeline Services (GOLD SPONSOR) Booth #492**

**Grundfos Pumps Corporation Booth #177**  
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, tfortner@grundfos.com, us.grundfos.com, Manufacturing Rep: David F. Sullivan and Associates, Maltz Sales Company

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**Hach Company Booth #192**

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

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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-Velocity, Flowmeters, as well as rain gauges. Hach also offers a complete Collection & Monitoring System. Including Wireless & Internet Based solutions. Turnkey system via DDS (Sata 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

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**Hanna Instruments** **Booth #187**  
Hanna Instruments is an instrumentation manufacturer dedicated on improving water industry testing equipment. Hanna offers EPA approved testing equipment, to measure parameters such as pH, Dissolved Oxygen, Alkalinity and more.  
Contact: Justin Mecys, 584 Park East Drive, Woonsocket, RI 02895, tel: (877) 694-2662, sales@hannainst.com, www.hannainst.com

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**Hayes Pump, Inc. (BRONZE SPONSOR)** **Booth #470, 471, 472**  
Founded in 1898 Hayes Pump, Inc. is a full service distributor offering pumps, parts, service, and repair for the following manufacturers: Pentair Fairbanks-Nijhuis, Pentair Aurora Pump, The Gorman-Rupp Company, Chemineer Mixers, Grundfos Pumps, John Crane Company, MET-PRO GPS Fybroc Division, Mission Communications, Ramparts AOD Pumps, Viking Pump, Warren-Rupp Sandpiper, and Xylem Goulds Water Technology. For further information please call 978-369-8800 or send an E mail to sales@hayespump.com. Also please visit our website at www.hayespump.com  
Contact: Craig Huff, 66 Old Powder Mill Rd, West Concord, MA 01886, tel: (978) 369-8800, fax: (978) 369-8461, chuff@hayespump.com, www.hayespump.com

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**Hazen and Sawyer, PC (SILVER SPONSOR)** **Booth #467**  
Since our founding in 1951, Hazen and Sawyer have focused on two things: providing safe drinking water and controlling water pollution. Our range of services encompasses the planning, design, and construction management of water and wastewater-related projects - from clean water treatment, storage, and distribution to wastewater and stormwater collection, treatment and reuse.  
Contact: Frank Ayotte, 24 Federal Street, 5th Floor, Boston, MA 02110, tel: (617) 574-4747, fax: (617) 574-4799, fayotte@hazenandsawyer.com, www.hazenandsawyer.com

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**High Tide Technologies** **Booth #401-409**  
Cloud-based SCADA supplier using Cellular, Satellite, and Ethernet communications. Monitoring and control for water, wastewater, natural gas and just about anything else you can imagine.  
Contact: David Mundie, PO Box 100189, Nashville, TN 37224, tel: (615) 256-6678, fax: (615) 256-6735, david.mundie@hightidetech.com, www.hightidetech.com, Manufacturing Rep: F.R. Mahony & Associates, Inc.

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**HOBAS Pipe USA** **Booth #193**  
HOBAS pipes are unique – centrifugally cast, fiberglass reinforced, polymer mortar (CCFRPM). They are strong and light with consistent dimensions, smooth surfaces and high stiffness. Dimensions range from 18” to 126” with a service life up to 100 years or more.  
Contact: Jon Mele, 1413 E. Richey Rd, Houston, TX 77073, tel: (281) 821-2200, fax: (281) 821-7715, jmele@hobaspipes.com, www.hobaspipes.com

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**Holland Company** **Booth #499**  
Manufacturer of high quality inorganic coagulants for use as settling aids, phosphorus removal and TSS reduction. We also Sodium Bisulfite for dechlorination. On site jar testing and consultation.  
Contact: Patrick Burke, 153 Howland Ave., Adams, MA 01220, tel: (800) 639-9602, fax: (413) 743-1298, pat.burke@hollandcompany.com, www.hollandcompany.com

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**Hydro-Dyne** **Booth #428**

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**Hydro Gate** **Booth #505**  
Hydro Gate has a long-standing reputation for providing superior quality water control gates for multiple industries. We manufacture heavy-duty gates that are custom built to match specific applications.  
Contact: Gary Boehler, 7010 Broadway, Ste 400, Denver, CO 80221, tel: (303) 288-7873, fax: (303) 287-8531, gboehler@hydrogate.com, www.dydrogate.com, Manufacturing Rep: Atlantic Fluid Technology, Inc.

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**Hydro Logic** **Booth #114**  
Contact: Glenn Hunter, 91 Point Judith Road Ste 200, Narragansett, RI 02882, tel: (401) 284-4100, glenn@hydrologicpe.com

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

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**ICS Healy-Ruff c/o BAU/HOPKINS** **Booth #422-424 & 430-433**  
SCADA Systems: Fully integrated Instrumentation & Control Systems. ICS Healy Ruff brings together the product and control Systems capabilities of Autocon, Aquatrol & Consolidated Electric. They offer Pump Station Control Panels, SCADA Systems & Accessories.  
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

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**IDModeling, Inc.** **Booth #213**

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**Infrastructure Technologies** **Booth #188**  
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.  
Contact: Ross Brown, 4921 Alexander Blvd NE, Ste B, Albuquerque, NM 87107, tel: (505) 341-0109, ross@itpipes.com, www.itpipes.com

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**Innovyze, Inc.** **Booth #197**  
Innovyze 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.  
Contact: Rajan Ray, 27 Eldred Ct., Wakefield, MA 02879, tel: (401) 932-4631, rajan.ray@innovyze.com, www.innovyze.com

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**Innovair** **Booth #163B**  
Inovair is a U.S. manufacturer of modern high-efficiency compact, integrally-g geared turbo blowers and blower packages engineered for wastewater, pneumatic conveying, aircraft ground support equipment and other industrial applications.  
Contact: Glen Roderique, 14801 W. 114th Terrace, Lenexa, KS 66215, tel: (855) 466-8247, fax: (913) 338-2879, glen.roderique@inovair.com, www.inovair.com, Manufacturing Rep: David F. Sullivan and Associates

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**IPEX USA LLC** **Booth #480**  
IPEX USA LLC supplies one of the world's most diverse lines of integrated thermoplastic piping systems - and includes the Vortex Flow Insert for use in sewer drop structures to control the generation and release of hydrogen sulfide without the use of power or chemicals.  
Contact: Kevin Read, 2 Ocean Look, Narragansett, RI 02882, tel: (401) 575-6652, kevin.read@ipexamerica.com, www.ipexamerica.com, Manufacturing Rep: Atlantic Fluid Technology, Inc.

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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 Morerod, 4225 NE Port Dr, Lee's Summit, MO 64064, tel: (610) 620-5256, fax: (816) 795-6030, tmorerod@ipm-sys.com, Manufacturing Rep: Russell Resources, Inc.

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**J.D.V. Equipment Corp.****Booth #410-413 & 473-475 & 481-482 & 489-490**

JDV Equipment Corporation is a leading manufacturer and provider of safe, environmentally friendly processing equipment and services for water treatment, wastewater treatment and industrial applications.

Contact: Donna Abbott, 1 Princeton Avenue, Dover, NJ 07801, tel: (973) 366-6556, fax: (973) 366-3193, donna@jdvequipment.com, www.jdvequipment.com, Manufacturing Rep: Wescor Associates, Inc.

**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&L Modular FAST, and GEOFLOW 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@jrsalesinc.com, www.jrsalesinc.com

**JCS Industries, Inc.****Booth #103**

Manufacturer of Liquid Vacuum Dosers for gas and liquid feed. JCS can create and improve on any system that feeds wastewater treatment chemicals. Currently with 700 installations and feed rates up to 8000 lbs per day.

Contact: Brian Whitmore, PO Box 90028, Houston, TX 77290, tel: (281) 343-2100, fax: (281) 353-0657, brian@jcsindustries.us.com, www.jcsindustries.us.com, Manufacturing Rep: Mechanical Solutions, Inc.

**Jesco-Lutz Pump Corp.****Booth #102, 104**

Contact: Phil Dann, 55 Bermar Park, Rochester, NY 14624, tel: (800) 554-2762, fax: (585) 426-4025, phil@jescoamerica.com, www.jescoamerica.com, Manufacturing Rep: Mechanical Solutions, Inc.

**JWB Company****Booth #422-424 & 430-43**

JWB Company is a Manufacturer's Representative covering the 6 New England States. JWB Company's Product Line focus is on Instrumentation & Controls. JWB specializes in SCADA, Telemetry, Level, Flow, Pressure & Analytical instrumentation. JWB 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@jwbcompany.net, www.jwbcompany.net, Manufacturing Rep: JWB 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

**Kruger, Inc.****Booth #401-409**

Kruger supplies solutions and technologies for wastewater and drinking water treatment. Through years of extensive research and development,

Kruger provides integrated solutions that optimize energy and operating costs.

Contact: Tabitha Atkinson, 4001 Weston Pkwy, Cary, NC 27513, tel: (919) 677-8310, fax: (919) 677-0062, krugerinmarketing@veoliawater.com, www.krugerus.com, Manufacturing Rep: F.R. Mahony & Associates, Inc.

**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, FSM, Hiller, Fuchs, CSO Technik and ACAT.

Contact: Michael Ronn, 101 Zima Park Road, Spatanburg, SC 29301, tel: (864) 576-0660, fax: (864) 587-5752, michael.ronn@kusterszima.com, www.kusterswater.com, Manufacturing Rep:.....Atlantic Fluid Technology, Inc.

**KWS Manufacturing Co. Ltd., Environmental Division****Booth #401-409**

KWS Manufacturing Company is the leader in the design and manufacture of conveying equipment for the bulk material handling industry. Products include: Shafted and Shaftless Screw Conveyors; Belt Conveyors; Bucket Elevators; Vertical Screw Conveyors; Screw Feeders & Live Bottoms; Drag Conveyors; Heat Transfer Screw Processors; Pressure Vessels (ASME); Slide Gates

Contact: David Dodsworth, 3014 Conveyor Drive, Burleson, TX 76028, tel: (817) 295-2240, fax: (817) 447-8528, dodsworth@kwsenvironmental.com, www.kwsfmfg.com, Manufacturing Rep: F.R. Mahony & Associates, Inc.

**Lakeside Equipment Corporation****Booth #152-158, 182**

Serving New England for 87 years with more than 110 RAPTOR Screen Installations, 40 Oxidation Ditch installations, 60 Spiraflo Clarifier installations, 25 Grit Removal installations, and 20 Screw Pump installations. Introducing our state-of-the-art MicroStar Filter for tertiary treatment and water re-use, and our Continuous Flow Sequencing Batch Reactor (CSBR).

Contact: Warren Kersten, 1022 East Devon Ave., PO Box 8448, Bartlett, IL 60103, tel: (630) 837-5640, fax: (630) 837-5647, www@lakeside-equipment.com, www.lakeside-equipment.com, Manufacturing Rep: The MAHER Corporation

**Lane Enterprises, Inc.****Booth #212**

Lane Enterprises, Inc. is a nationally recognized leader in the manufacture and supply of storm water drainage pipe and storm water quality products. In addition, Lane offers an extensive line of large diameter pipe and bottomless bridge structure which are ideal for today's stream crossing applications.

Contact: Geordon Evans, 825 Rt. 67, Ballston Spa, NY 12020, tel: (518) 885-0545, fax: (518) 885-0545, gevens@lane-enterprises.com, www.lane-enterprises.com

**Lightnin/SPX****Booth #401-409****LOBEPRO Rotary Pumps****Booth #102, 104**

Rotary Lobe Pumps for sludge, they are durable, self priming, pulsation free that are mfg. in Georgia. Parts ship in 2 days or they are FREE. The mechanical seal, cartridge style is rebuildable and wear plates are reversible to extend life.

Contact: Bill Blodgett, Brunswick, GA 31525, tel: (912) 466-0304, fax: (912) 466-0086, billb@lobepro.com, www.lobepro.com, Manufacturing Rep: Mechanical Solutions, Inc.

**M.A. Selmon Company****Booth #198****The MAHER Corporation (GOLD SPONSOR)****Booth #152-158 & 182**

Please visit the following companies in booths 151-158 & 182: EIM, Singer Valve, Straub, Waco, Trojan Technologies, Parkson, Sanitaire, Watson Marlow, ClearStream, Nova Water, Biorem, Boerger, Brentwood Industries and Lakeside Equipment.

Contact: Peter Kibble, 192 Pleasant St, Rockland, MA 02370, tel: (781) 421-2600, fax: (781) 878-1219, pkibble@themahercorp.com, www.themahercorp.com

**Maltz Sales Company, Inc.****Booth #168**

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 analytical instrumentation.

Contact: Teresa Robbins, 67 Green Street, Foxboro, MA 02035, tel: (508) 203-2400, fax: (508) 203-2401, teresar@maltzsales.com, www.maltzsales.com, Manufacturing Rep: Gundfos

**Manning Environmental c/o JWB Company****Booth #422-424 & 430-433**

Manning has been in the Wastewater sampling business for over 35 years. They combine both peristaltic and vacuum sampler technologies with portable and permanent refrigerated, composite and sequential wastewater sampling. Manning offers the most reliable products for your sampling needs.

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

<b>Martinez Couch &amp; Associates LLC</b>	<b>Booth #161</b>
<b>McIntosh Controls Corp./SmartCover</b>	<b>Booth #148</b>
McIntosh Controls Corp. Instrumentation represents Hadronex Monitoring Systems whose products include SmartCover, SmartFlo 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	
<b>Mechanical Solutions, Inc.</b>	<b>Booth #102, 104</b>
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 <sup>2</sup> 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, gmacdonald@msipump.com, www.msipump.com	
<b>MGD</b>	<b>Booth #401-409</b>
<b>Mixtec</b>	<b>Booth #501</b>
<b>MJK</b>	<b>Booth #454-458 &amp; 464-466</b>
MJK manufactures 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. 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, Manufacturing Rep: Russell Resources, Inc.	
<b>National Filter Media/Filter Belts</b>	<b>Booth #126</b>
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, GBT's and drum screens. Contact: Randy Carlsen, 12 Winada Drive, Winthrop, ME 04364, tel: (800) 321-5223, fax: (207) 377-2629, rcarlsen@nfm-filter.com, www.nfm-filter.com	
<b>National Oilwell Varco (NOV)</b>	<b>Booth #147</b>
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	
<b>National Water Main Cleaning Co.</b>	<b>Booth #107</b>
<b>Neptune Chemical Pump Company</b>	<b>Booth #454-458 &amp; 464-466</b>
Manufacturer of metering pumps, polymer makedown systems, packaged feed systems Contact: Ken Underwood, 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.	
<b>Netzsch c/o BAU/HOPKINS</b>	<b>Booth #422-424 &amp; 430-433</b>
Progressing Cavity & Rotary Lobe Pumps: NEMO Brand of Progressing Cavity Pumps; TORNADO Brand of Rotary Lobe Pumps.; Introducing the T-2 Rotary Lobe Pump 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	

<b>New England Environmental Equipment</b>	<b>Booth #438-440 &amp; 446-448</b>
Representing Penn Valley Pump, Teledyne Isco samplers and flow meters (non-contacting Laser Flow Sensor), YSI - IQ SensorNet Process Monitoring System, Tideflex Check Valves, Red Valve Plug Valves, Moyno PC pumps & two shafted Grinders and Tracom Fiberglass Buildings, Enclosures and Flumes. Contact: Robert Mack, 1 DeAngelo Dr., Bedford, MA 01730, tel: (781) 275-1001, fax: (781) 275-1002, bob@ne3inc.com, www.ne3inc.com	
<b>Noxon c/o BAU/HOPKINS</b>	<b>Booth #422-424 &amp; 430-433</b>
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	
<b>Oakson</b>	<b>Booth #483</b>
<b>OCV</b>	<b>Booth #454-458 &amp; 464-466</b>
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 serviced 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.	
<b>Opti Float/Cox Research c/o JWB Company</b>	<b>Booth #422-424 &amp; 430-433</b>
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	
<b>OSS, Inc.</b>	<b>Booth #195</b>
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	
<b>Ovivo</b>	<b>Booth #501</b>
<b>Parkson Corporation</b>	<b>Booth #152-158, 182</b>
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) 917-1886, tleshinski@parkson.com, www.parkson.com, Manufacturing Rep: The MAHER Corporation	
<b>Pavers by Ideal</b>	<b>Booth #186</b>
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-Learns available. Contact: Jim Larsen, 45 Power Rd, Westford, MA 01886, tel: (781) 894-3200, fax: (978) 692-0817, info@idealconcreteblock.com, www.idealconcreteblock.com, Manufacturing Rep: The MAHER Corporation	
<b>Penn Valley Pump</b>	<b>Booth #446</b>
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. Contact: Trevor Lawson, 998 Aston Road, Warrington, PA 18976, tel: (215) 343-8750, tlawson@pennvalleypump.com, www.pennvalleypump.com, Manufacturing Rep: New England Environmental Equipment	

**Perma-Liner Industries, LLC** **Booth #216**

**Philadelphia Mixing Solutions c/o BAU/HOPKINS** **Booth #422-424 & 430-433**

Vertical Shaft Mixers & Aerators, High Shear, low flow Flocculators, Rapid Mixers Sludge Blending Mixers, Anoxic Zone Mixers.

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

**PhilAerator GmbH** **Booth #506**

Manufacturer of high speed turbo blowers with magnetic bearings.

Contact: Glenn Schultz, 445 Duanne Ave, Schenectady, NY 12304, tel: (518) 372-2496, schultz@pillertsc.com, www.piller.com, Manufacturing Rep: Atlantic Fluid Technology, Inc.

**PINNACLE OZONE Solutions, LLC** **Booth #401-409**

PINNACLE OZONE SOLUTIONS offers the worlds' most technically advanced, energy efficient, and reliable ozone systems

Contact: Louis LeBrun, 2971-A Oxbow Circle, Cocoa, FL 32926, tel: (321) 205-1717, fax: (321) 205-1718, llebrun@pinnacleozone.com, www.pinnacleozone.com, Manufacturing Rep: F.R. Mahony & Associates, Inc.

**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: Bob Osnoe, 106 Sebeth Drive, Cromwell, CT...06423, tel: (860) 316-2570, fax: (860) 760-6804, 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**

**Prominent Fluid Controls, Inc.** **Booth #410-413 & 473-475 & 481-482 & 489-490**

Manufacturer of chemical metering pumps and skid mounted pump packages. Liquid and dry polymer feed systems; analyzers and controllers

for chemical disinfection; peristaltic hose pumps. Sales and service through Wescor.

Contact: Tom Miller, 136 Industry Drive, Pittsburgh, PA 15275, tel: (412) 788-7905, fax: (412) 787-0704, tomm@prominent.us.com, www.prominent.us.com, Manufacturing Rep: Wescor Associates, Inc.

**Process Wastewater Technologies, Inc.** **Booth #454-458 & 464-466**

PWTech offers the largest variety of sanitary wet weather screening products on the market, covering the range from coarse screening with stationary screening, to mechanically cleaned screens, and the fine screening of SanSep using continuous deflective screening that gives high efficiency primary treatment. PWTech also has the most effective and efficient sludge dewatering (Volute Dewatering Press) and sludge thickening (Volute Thickener), as well as a variety of wastewater treatment products. Visit our website

Contact: Jim Hiest, 9004 Yellow Brick Road Suite D, Rosedale, MD 21237, tel: (410) 238-7977, jheist@pwtech.com, www.pwtech.us, Manufacturing Rep: Russell Resources, Inc.

**PULSCO, Inc.** **Booth #454-458 & 464-466**

Since 1922 PULSCO hydropneumatic SURGE & Pressure control solutions have been recognized by engineers and operators as the technology leader offering both air-over-water or bladder based designed systems.

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

**Pump Systems Inc.** **Booth #486**

**Purafil** **Booth #401-409**

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

Contact: Don Apking, 2654 Weaver Way, Doraville, GA 30340, tel: (770) 662-8545, fax: (770) 263-6922, dapping@purafil.com, www.purafil.com, Manufacturing Rep: F.R. Mahony & Associates, Inc.

**QCEC Wastewater Samplers** **Booth #454-458 & 464-466**

Automatic portable & refrigerated sampling devices. At the heart of every QCEC wastewater sampler is vacuum technology that delivers accurate samples every time...for a long time. NO PERISTALTIC PUMP TO MAINTAIN.

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.

**R.H. White Construction Co., Inc.** **Booth #105**

**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 RTU's 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 leading provider of temporary liquid handling solutions including pumps, tanks filtration and spill containment. Projects range from flood relief to construction site dewatering, sewer bypasses, and industrial plant turnarounds.

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

**Red Valve/Tidexflex** **Booth #440**

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

Contact: Matt Kincade, 700 North Bell Ave, Carnegie, PA 15106, tel: (412) 279-0044, mkincade@redvalve.com, www.redvalve.com, Manufacturing Rep: New England Environmental Equipment

**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**

**RITEC Environmental LLC** **Booth #189**

Ritec Environmental is a major New England supplier of chemical feed and polymer systems, process automation, wireless networks and water quality analyzers. Representing Siemens, ATI, GE, UGSI, Evoqua, Force Flow, and Metso TS.

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.

Contact: Chris Harper, 3801 Beam Road, Charlotte, NC 28217, tel: (704) 424-1018, fax: (704) 424-1019, chris.harper@robuschiusa.com, www.robuschiusa.com, Manufacturing Rep: Wescor Associates, Inc.

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**Rockwell Automation** **Booth #206,**

**Rootx** **Booth #159**  
RootX 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@rootx.com, www.rootx.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.  
Contact: Tapan Mody, 22 Pinewood Rd., Hudson, NH 03051, tel: (603) 781-8904, tapan.mody@rotork.com, www.rotork.com, Manufacturing Rep: The Wise Company

**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**  
Chemical Injectors: Injection Nozzles, Injection Assemblies, Sampling Probes, Saf-T-Seal, air Injection Diffuser.  
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@xylem.com, www.xylem.com/treatment, Manufacturing Rep: The MAHER Corporation

**Scavin Equipment Co., LLC** **Booth #115**

**Schreiber c/o BAU/HOPKINS** **Booth #422-424 & 430-433**  
Process Equipment: Fuzzy Filters, Grit Removal Equipment, Clarifiers, and Continuously Sequencing Reactor.  
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 #422-424 & 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

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**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-film and MBRs, grit removal systems and packaged pump stations deliver reliable performance with unrivaled life cycle cost savings. Significant experience throughout New England with hundreds of installations.  
Contact: Isaiah LaRue, 14040 Santa Fe Trail Drive, Lenexa, KS 66214, tel: (207) 989-0591, answers@smithandloveless.com, www.smithandloveless.com, 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**  
Blowers, The "Ay-Jet" a New England Manufacturer High Speed, Magnetic Bearing, Blower, The "Powermizer" The Most power efficient. Centrifugal Blower on the market today.  
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, fax: (978) 975-0550, sdepasquale@sde-inc.com, www.sde-inc.com

**Statewide Aquastore, Inc.** **Booth #500**  
Statewide Aquastore Inc. is a provider of Aquastore glass-fused-to-steel storage tanks. Applications involve 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) 433-5083, hhagan@besttank.com, www.besttank.com

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**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) 393-7660, fax: (508) 393-6042, jford@sorensensystems.com, www.sorensensystems.com, Manufacturing Rep: Atlantic Fluid Technology, Inc.

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**Sustainable Generation** **Booth #B**

Contact: Scott Woods, 3 Braeburn Road, Chelmsford, MA 01824, tel: (917) 678-6947, scott.woods@sustainable-generation.com

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**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.

Contact: Steve Monkiewicz, 225 Larkin Drive Unit 4, Wheeling, IL 60090, tel: (847) 229-1290, fax: (847) 229-1320, info@swan-analytical-usa.com, Manufacturing Rep: Russell Resources, Inc.

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**Sydex USA, LLC** **Booth #454-458 & 464-466**

Sydex is a manufacturer of a complete line of progressing cavity pumps for Municipal and Industrial applications. Sizes range from 0 gph to

1,200 gpm and pressures up to 720 psi.

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, Manufacturing Rep: Russell Resources, Inc.

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**Synagro Northeast LLC (SILVER SPONSOR)** **Booth #180**

Synagro is the nation's leader in biosolids and organic residuals management with customers in over 34 states and in Canada. Synagro's services include: Incineration, Composting, Pelletizing, Lagoon Cleaning/Dredging, Alum Sludge Beneficial Use, Rail Services and Digester Cleaning.

Contact: Pat Rimkoski, 680 Main Street, Ste 303, Watertown, CT 06795, tel: (860) 274-1710x354, fax: (860) 274-1090, primkoski@synagro.com, www.synagro.com

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**SyTech, Inc.** **Booth #208**

SyTech, a software manufacturer for automating and distributing reports, has been working with water and wastewater customers for 20 years. We are exhibiting our reporting/data management software XLReporter, installed in over 600 facilities throughout the US including 150 in New England.

Contact: Terri Delaney, 38 Pond Street, Franklin, MA 02038, tel: (508) 520-9957, fax: (508) 520-6957, terrid@sytech.com, www.sytech.com

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**Technology Sales Associates, Inc.** **Booth #426-429 & 501-504**

Technology Sales is proud to represent, for over 35 years, the leading manufacturers of water and wastewater equipment throughout New England. We specialize in bringing new technologies to municipal and industrial clients by providing both owners and engineers with solutions to their treatment needs. The engineering knowledge of our staff combined with years of product and project experience allows Technology Sales to be a resource for creative, cost saving solutions.

Contact: Marina Giovannini, 44 Central Street, Unit 5, Berlin, MA 01503, tel: (978) 838-9998, fax: (978) 838-9897, mgiovannini@techsalesne.com, www.techsalesne.com

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**Teledyne Isco** **Booth #448**

Automatic Samplers and Open Channel Flow Meters. Including the NEW \*\*Non-contacting Laser Flow Meter\*\*. Flow Meters handle flows from a few gpm to many Millions per day. The FlowLink software is very functional, direct download to a laptop or instrument pushes data to your web account.

Contact: Robert Mack, 4700 Superior St, Lincoln, NE 68504, tel: (781) 275-1001, bob@ne3inc.com, www.isco.com, Manufacturing Rep: New England Environmental Equipment

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**TcTech/Boyson New England** **Booth #497, 498**

TcTech/Boyson New England is a new Group, which includes Principals, and Sales Engineers that have combines forces to better serve the New England Water and WWTP market. TcTech/Boyson is focused on providing Municipal and Industrial Water and Wastewater Process Equipment Solutions.

Contact: Brian Boyson, 175 Harvest Lane, Bridgewater, MA 02324, tel: (508) 889-6371, bbo5807254@aol.com, www.wastewaterequipmentboyson.com

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**Technology Sales Associates, Inc.** **Booth #426-429 & 501-504**

Technology Sales is proud to represent, for over 35 years, the leading manufacturers of water and wastewater equipment throughout New England. We specialize in bringing new technologies to municipal and industrial clients by providing both owners and engineers with solutions to their treatment needs. The engineering knowledge of our staff combined with years of product and project experience allows Technology Sales to be a resource for creative, cost saving solutions.

Contact: Marina Giovannini, 44 Central Street, Unit 5, Berlin, MA 01503, tel:.....(978) 838-9998, fax: (978) 838-9897, mgiovannini@techsalesne.com, www.techsalesne.com

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**Ted Berry Company** **Booth #112****Thirsty Duck** **Booth #504****Trident Actuators** **Booth #506**

Manufacturer of self-contained electro-hydraulic actuators for gates and valves used in the water and waste water industry. Features include Fail-Safe, submersible, Explosion Proof, and routine maintenance free.

Contact: John Cermanski, 329 Center Ave, Mamaroneck, NY 10543, tel: (914) 698-2650, fax: (914) 698-5629, j.cermanski@mihrident.com, www.mihrident.com, Manufacturing Rep: Atlantic Fluid Technology Inc.

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**Triplepoint Water Technologies** **Booth #454-458 & 464-466**

MARS aeration system, highly efficient, cost effective, simple to install. Lagoon aeration design.

Contact: Patrick Hill, 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.

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**TrojanUV** **Booth #152-158, 182**

TrojanUV designs, manufactures and sells pressurized and open-channel UV disinfection systems for municipal wastewater and drinking water, and UV-oxidation systems for environmental contaminant treatment applications.

Contact: 3020 Gore Rd, London, ON N5V 4T7, tel: (519) 457-3400, fax: (519) 457-3030, info@trojanuv.com, www.trojanuv.com, Manufacturing Rep: The MAHER Corporation

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**Truax Corporation** **Booth #C****Trumbull Industries** **Booth #184**

Waterworks manufacturing, products for the water and wastewater industry, tools, valves and accessories, valve position indicators, miter gears, polymer manhole and water meter lids and products for corrosive soils.

Contact: Vic Dasbach, 1040 N. Meridian Road, Youngstown, OH 44509, tel: (330) 307-1217, fax: (330) 270-3088, vdasbach@trumbull.com, www.trumbull-mfg.com

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**Turtle Plastics** **Booth #138, 139**

Turtle Plastics is a recycling company. Hose Bridges up to 10" dia; Duracrib—interlocking grubbing/blocking; Durastat—single layer wood substitute; 50 year warranty.

Contact: Jennifer Naelitz, 7400 Industrial Pkwy, Lorain, OH 44053, tel: (440) 282-8008, fax: (440) 282-8822, jennifer@turtleplastics.com, www.turtleplastics.com

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**UGSI Chemical Feed, Inc.** **Booth #190**

UGSI Chemical Feed Solutions is a leading supplier of chemical feed systems including the industry leading PolyBlend® line of liquid and dry polymer activation and delivery systems, the Encore® metering pump brand and dry chemical feed system.

Contact: Gary Schaeffer, 1901 West Garden Road, Vineland, NJ 08360, tel: (856) 896-2166, fax: (856) 457-5920, gschaeffer@ugsichemicalfeed.com, www.ugsichemicalfeed.com, Manufacturing Rep: Sullivan Associates

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<b>Ultra-Tech</b>	<b>Booth #503</b>
<b>United Blower, Inc.</b>	<b>Booth #454-458 &amp; 464-466</b>
United Blower manufacturers high quality blower systems and controls; made in the U.S.A. Customers can select from: P.D. Blowers, high speed turbos, regenerative blowers, rotary vane compressors, sound enclosures. Contact: Vic Miolee, PO Box 3276, Brewer, ME 04412, tel: (207) 989-0591, fax: (207) 433-1080, jrussell@r-inc.com, www.r-r-inc.com, Manufacturing Rep: Russell Resources, Inc.	
<b>United Concrete Products Inc.</b>	<b>Booth #169</b>
United Concrete Products offers a complete line of precast concrete products along with prefabricated pump stations and prefabricated concrete buildings to be used for the generator, restroom, storage and concession stands. Contact: Dave Topa, 173 Church Street, Yalesville, CT 06492, tel: (203) 269-3119, fax: (203) 265-4941, dtopa@unitedconcrete.com, www.unitedconcrete.com	
<b>United Water (SILVER SPONSOR)</b>	<b>Booth #211</b>
<b>USABlueBook</b>	<b>Booth #459</b>
USABlueBook – Everything for water and wastewater operations; 27,000 items in stock; 95% of orders ship same day. Request your FREE catalog (800) 548-1234 or www.usabluebook.com Contact: PO Box 9004, Gurnee, IL, tel: (800) 548-1234, fax: (847) 689-3030, customerservice@usabluebook.com, www.usabluebook.com	
<b>Varec-Biogas</b>	<b>Booth #504</b>
<b>Vari-Tech, LLC</b>	<b>Booth #162</b>
An engineering oriented Distribution Company specializing in HDPE pipe, fittings, and fabrications, FRP duct and structural products, PPR interior piping, and underground infiltration systems for storm water, water, wastewater, and chemical applications. We work from conceptual design through installation & start up. Contact: Deb Colbert, 58 Main St., Topsfield, MA 01983, tel: 978-887-0272, fax: 978-887-8121, dcolbert@varitech.com, www.varitech.com	
<b>Viking Chains Enviro Division a Division of Connexus Industries Inc.</b>	<b>Booth #488</b>
Viking Chain specializes in metallic and non-metallic chain & flight systems for rectangular clarifiers and grit removal systems. Viking also manufactures chain and accessories for a wide range of applications in the water and wastewater field. Contact: Paul Vandemark, 3411 Novis Pointe, Acworth, GA 30101, tel: (604) 882-1602, fax: (604) 882-1603, sdavies@cnxsind.com, www.vikingchainsenvirdivision.com, Manufacturing Rep: Atlantic Fluid Technology, Inc.	
<b>Vogelsang</b>	<b>Booth #468</b>
Rotary Lobe Pumps, Inline Sludge Macerators and Inline Twin Shaft Grinders for heavy sludge Pumping and conditioning. Contact: John Richert, PO Box 751, Ravenna, OH 44266, tel: (330) 296-3820, fax: (330) 269-4113, sales@vogelsangusa.com, www.vogelsangusa.com, Manufacturing Rep: Aqua Solutions	
<b>Vulcan Industries, Inc.</b>	<b>Booth#496</b>
Contact: Norm Jackman, 212 S Kirlin St, Missouri Valley, IA 51555, tel: (712) 642-2755, fax: (712) 642-4256, norm@vulcanindustries.com, www.vulcanindustries.com, Manufacturing Rep: Atlantic Fluid Technology, Inc.	
<b>Walker Wellington, LLC</b>	<b>Booth #476, 477, 478</b>
<b>Wastecorp Pumps, LLC</b>	<b>Booth #410-413 &amp; 473-475 &amp; 481-482 &amp; 489-490</b>
Wastecorp Designs and Engineers our products in North America with a focus on quality, energy savings, and a goal to lower emissions: Plunger Pumps, Diaphragm Pumps, Disc Pumps, Trash Pumps, and Pump Parts. Contact: Marc Johnson, PO Box 70, Grand Island, NY 14072, tel: (888) 829-2783, fax: (888) 883-3320, mjohnson@wastecorp.com, www.wastecorp.com, Manufacturing Rep: Wescor Associates, Inc.	

<b>Water &amp; Waste Equipment, Inc.</b>	<b>Booth #171</b>
<b>Water Resource Technologies</b>	<b>Booth #209</b>
Water Resouce Technologies is a distributor of wastewater pumps and related equipment. We specialize in the design and operation of Pressure Sewer Systems. Call to see how we can help you today! Contact: Victoria Messina, 11221 St Johns Industrial Pkwy N, Jacksonville, FL 32246, tel: (407) 718-5507, fax: (877) 978-4286, vmessina@wrtllc.com, www.wrtllc.com	
<b>Watson Marlow Pumps Group</b>	<b>Booth #152-158, 182</b>
Watson-Marlow peristaltic tube pumps and Bredel hose pumps provide minimal shear combined with high levels of volumetric accuracy. Our pumps are highly accurate, self-priming, dry running and eliminate the need for ancillary equipment. Contact: Henry Taubenfeld, 37 Upton Technology Park Drive, Wilmington, MA 01887, tel: (800) 282-8823, fax: (978) 658-0041, support@wmpg.com, www.wmpg.com, Manufacturing Rep: The MAHER Corporation	
<b>WESCOR Associates, Inc.</b>	<b>Booth #410-413 &amp; 473-475 &amp; 481-482 &amp; 489-490</b>
Manufacturers' Representative for over 35 years. Representing leading companies in the water and wastewater fields: Process Equipment–Blowers, Clarifiers, Chemical Feed, Screens, Grit, Odor, Pumping, Liquid/Solids Separation, and residual applications. Contact: Bill Montanaro, Jr., PO Box 370, 686 South Street, Wrentham, MA 02093, tel: (508) 384-8921, fax: (508) 384-8953, billjr@wescor1.net, www.wescorassociatesinc.com, Manufacturing Rep: Wescor Associates, Inc.	
<b>WesTech Engineering</b>	<b>Booth #176A</b>
WesTech, which now includes the Microfloc and General Filter brands, engineers and manufactures process equipment and working solutions for water & wastewater applications. Call us for the best value and solutions to your process needs. Contact: Gary Garzonetti, 3665 South West Temple, Salt Lake City, UT 84115, tel: (801) 265-1000, fax: (801) 265-1080, ggarzonetti@westech-inc.com, www.westech-inc.com, Manufacturing Rep: David F. Sullivan and Associates	
<b>Whipps, Inc.</b>	<b>Booth #496</b>
Made in the USA. Whipps, Inc. manufactures high performance, low leakage, stainless steel and aluminum slide gates and stop logs since 1977. Contact: Ron Niedzwiecki, 370 South Athol Rd, PO Box 1058, Athol, MA 01331, tel: (978) 249-7924, fax: (978) 249-3072, ran@whipps.com, www.whipps.com, Manufacturing Rep: Atlantic Fluid Technology, Inc.	
<b>WhiteWater, Inc.</b>	<b>Booth #106</b>
Wastewater treatment and conveyance including operations, management, influent and effluent sampling, preventive maintenance programs, chemical treatment systems, pump station maintenance, regulatory reporting and inspection services. Contact: Stephen Donovan, 253B Worcester Road, Charlton, MA 01507, tel: (888) 377-7678, fax: (508) 248-2895, sdonovan@rhwhite.com, www.whitewateronline.com	
<b>WILO-EMU</b>	<b>Booth #410-413 &amp; 473-475 &amp; 481-482 &amp; 489-490</b>
Design of submersible mixers for denitrification processes in wastewater. Pumps, both submersible & dry pit types for pump stations in wastewater applications. WILO can provide extended warranties and all equipment can be price competitive. Contact: Ricky Flores, 86 Genesis Parkway, Thomasville, GA 31792, tel: (866) WILO-USA, fax: (866) 293-4348, ricky.flores@wilo-usa.com, www.wilo-usa.com, Manufacturing Rep: Wescor Associates, Inc.	
<b>Wind River Environmental</b>	<b>Booth #217</b>
Wind River is fully capable of handling all of our customer's grease, septic, drain and plumbing	



needs. We have a broad geographic reach from all of New England to NJ, NY and PA. We offer fast, dependable service; whether you are having an emergency or just need routine maintenance.  
Contact: Rachael Kane, 577 Main Street, Suite 110, Hudson, MA 01749, tel: (800) 499-1682, rkane@wrenvironmental.com, www.wrenvironmental.com

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**Winters Instruments**

**Booth #181**

Winters Instruments is a manufacturer of quality pressure and temperature instrumentation, with distribution in over 90 countries.

Contact: Paul D'Agostino, 600 Ensminger Road, Buffalo, NY 14150, tel: (716) 874-8700, fax: (716) 874-8800, pdagostino@winters.com, www.winters.com

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**Woodard & Curran (BRONZE SPONSOR)**

**Booth #207**

Woodard & Curran is a 700-person, integrated engineering, science and operations company. Privately held and steadily growing, we serve public and private clients locally and nationwide.

Contact: Leroy Kendricks, 980 Washington Street, Ste 325N, Dedham, MA 02026, tel: (800) 675-2756, lkendricks@woodardcurran.com, www.woodardcurran.com

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**Yeomans Chicago Corp.**

**Booth #177B**

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**YSI**

**Booth #447**

Water Quality Instruments. Featuring the new \*\*|Q SensorNet Continuous Process Monitoring System\*\*. Includes all standard parameter and integral Phosphorus monitoring. One power supply per system. Single cable carries power to the sensor and data from the sensors. All communication protocol available.

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