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

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

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

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

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

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

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

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

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NEWEA 2015 COUNCILS

NEWEA 2015 COUNCILS (CONTINUED)

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Offering a range of infrastructure solutions for communities in the Northeast

### Contact Information

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  Two- 96" cast & fabricated, non-rising stem, bi-directional, zero leakage and bubble tight, knife gates for manual and automated service.

- **AUNSPACH CONTROLS**  
  Torque overload protection creating reliable, high quality, mechanical overtorque solutions for valves, actuators, etc. for the municipal, fluid handling and industrial market.

- **LARAD VALVES**  
  1/2"-4" Quarter-turn pinch valves for manual and automated service. "W"afer & sanitary tri-clamp flow-thru instrument isolators for pressure measurement with gauge, transmitter or switch.

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  Cast, fabricated & custom designed metal & resilient seated knife gate valves, from 2" to 96" & larger. "W"afer, bi-directional, drip tight, non clogging, full port, and bonneted designs available in all stainless steel or wetted parts only.

- **WASTOP CHECK VALVES**  
  Stainless steel, PVC/PE inline check valves, WAPRO access chamber. WAREG flow regulator. WABACK valve & MINI.

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  Plug valves: eccentric 1/2"-72", check valves: swing, flex, spring, "W"afers, dual disc, globe. AWWA butterfly valves: 3"-72".

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  Valve actuators - quarter & multi-turn-manual, electrical, pneumatic, hydraulic actuators, network two wire control systems.

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  Mechanical pipeline products: casing spacers & end seals, innerlynx 8", penetration seals, flange isolating gasket kits, flange protectors, wall sleeves & maloney/foreman night caps.

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  Composite fiberglass reinforced plastic products provide optimum corrosion resistance, wide range of functional designs and custom sizes. Quality (FRP) engineered flumes, gates, stop logs, manholes, skimmers, gages, shelters.

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  Resilient & metal seated solid wedge AWWA gate valves, "W"afers & lug pattern industrial/commercial butterfly valves.

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Thinking of water in new ways

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

Join the dialogue at bc1Water.com

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

Water for all.
Water for life.
The New England Consortium

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

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

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


NEWEA&NYWEA Joint Spring Meeting

ENVIRONMENTAL STEWARDSHIP IN THE 21ST CENTURY

Join us June 5 – 8, 2016 Mystic Seaport, CT | Mystic Marriott Hotel & Spa

Announcing the call for presentations and papers

Abstract submission deadline: February 12, 2016
Conference Events

Sunday, January 24

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

Monday, January 25

Registration (4th Floor) ................................................................. 7:00 AM–6:00 PM
Speakers’ Breakfast (Hyannis) .................................................... 7:30–8:30 AM
Coffee and Continental Breakfast (3rd Floor Atrium) .......... 7:30–9:00 AM
NEWEA Annual Business Meeting (Vineyard) ................. 8:00–8:30 AM
Welcome and Opening Remarks:
Matt Formica, NEWEA President/AECOM
Presentation and vote on 2016 Slate of NEWEA Officers.
See description on page 42
Technical Sessions 1–5 ............................................................. 8:30–10:30 AM
See descriptions beginning on page 14
Exhibit Hall Grand Opening ................................................... 10:30 AM
Amy Anderson, Exhibits Committee Chair; Matt Formica, NEWEA President
Grand Opening will take place at the main entrances of the 3rd and 4th floor exhibit areas.
Exhibits (3rd and 4th Floor Exhibit Areas) ......................... 10:30 AM–6:30 PM
Please note that the 3rd and 4th floor exhibit areas are connected by a stairwell in the back of exhibit hall. See page 44 for list of exhibitors.
Opening Session ................................................................. 11:00 AM
Featured Speaker—George S. Hawkins (see description on page 13)

Monday, January 25 continued

Professional Poster Board Displays/Session (4th Floor) .......... 8:30 AM–4:30 PM
Coordinator: Lauren Hertel, Stantec
Session with authors .............................................................. 1:30–3:30 PM
Select Society of Sanitary Sludge Shovelers’ Lunch ............. Noon–2:00 PM
by invitation – Charles Tyler, Influent Integrator (Dartmouth/Exeter)
Young Professionals Outreach/Mentoring Program (Yarmouth) ........ Noon–1:30 PM
The YP Committee is planning a special lunchtime session for those participating in the Mentoring Day and for all Young Professionals.
Justin Skelly, Tighe & Bond; Dave Archard, RJN Group

Tuesday, January 26

Registration (4th Floor) ................................................................. 7:00 AM–6:00 PM
Speakers’ Breakfast (Hyannis) .................................................... 7:30–8:30 AM
Guest Program – see description on page 43 ......................... 7:30 AM–4:00 PM
NEWEA Presidents’ Breakfast (Champions) ....................... 8:00–9:00 AM
by invitation
Exhibits .................................................................................. 8:00 AM–6:00 PM
3rd and 4th Floor Exhibit Areas
Technical Sessions 12–16 ............................................................ 9:00–11:30 AM
See descriptions beginning on page 20
College Student Poster Board Competition ....................... 9:30 AM–3:30 PM
Coordinator: Annalisa Onnis-Hayden, Northeastern University
Session with authors .............................................................. 11:00 AM–12:30 PM
Exhibit Hall Break ................................................................. 10:00–10:30 AM
Operator’s Reception ............................................................... Noon–1:30 PM
Sponsored by:
Connecticut Water Pollution Abatement Association
Green Mountain Water Environment Association
Maine Water Environment Association
Massachusetts Water Pollution Control Association
Narragansett Water Pollution Control Association
New Hampshire Water Pollution Control Association
Technical Sessions 17–22 .......................................................... 1:30–4:00 PM
See descriptions beginning on page 23
Graduate Student Technical Session ................................. 1:30–4:00 PM
Exhibit Hall Break ................................................................. 2:30–3:00 PM
Exhibit Hall Reception (4th Floor Exhibit Area) ................. 4:00–6:00 PM
**Wednesday, January 27**

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

**Speakers’ Breakfast** (Hyannis) .......................................................... 7:30–8:30 AM

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

3rd and 4th Floor Exhibit Areas

**Technical Sessions 23–27** .............................................................. 8:30–11:00 AM

See descriptions beginning on page 26

**Exhibit Hall Break** .......................................................................... 9:30–10:00 AM

**Mr & Mrs Fish Presentation** ........................................................... 9:30 AM & 11:30 AM

The Mystery of the Clam (two performances) 3rd Floor Atrium

**NEWEA Awards Ceremony and Lunch** (Salon E) ......................... 11:00 AM–1:00 PM (ticket required)

**Exhibit Area Brunch** ..................................................................... 11:00 AM–1:00 PM

The exhibit area brunch will be held in both the 3rd and 4th floor exhibit areas.

**Technical Sessions 28–30** ............................................................ 1:00–3:00 PM

See descriptions beginning on page 29

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

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**Opening Session**

**MONDAY, JANUARY 25**

**11:00 AM**

**Moderator:**

Helen Gordon, NEWEA Program Committee, Woodard & Curran

**Welcome:** Matt Formica, NEWEA President, AECOM

**Keynote Speaker:** George S. Hawkins, CEO/General Manager, DC Water

George Hawkins is Chief Executive Officer and General Manager of the District of Columbia Water and Sewer Authority (DC Water). DC Water provides drinking water delivery and wastewater collection and treatment for the District of Columbia, and treats wastewater for millions in several Maryland and Virginia suburbs. The Authority operates the world’s largest advanced wastewater treatment plant at Blue Plains. Under Hawkins’ leadership, DC Water has launched a vast 10-year program to improve aging infrastructure and comply with ever more stringent regulatory requirements. DC Water is designing and implementing three massive environmental projects that total in excess of $4 billion.

Previously, Hawkins was the first director of the District Department of the Environment (DDOE). Prior, he was executive director of New Jersey Future, and served as executive director of the Stony Brook-Millstone Watershed Association. He held senior positions with the United States Environmental Protection Agency (EPA) and also served Vice President Gore on the National Performance Review.

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

**Session 1**

**Hot Topic:**

Innovative Treatment Technologies

**Moderators:**

Chuck Pike, Black & Veatch
Vinta Varghese, CH2M

**Suffolk**

**Session 1**

**8:30–10:30 AM**

**Session 1**

**Hot Topic:**

Innovative Treatment Technologies

**Moderators:**

Chuck Pike, Black & Veatch
Vinta Varghese, CH2M

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**Suffolk**

**Session 2**

**Residuals Management—Comprehensive Residuals Management**

**Moderators:**

Eric Spargimino, CDM Smith
Natalie Sierra, Brown and Caldwell

**Salon C/D**

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**Technical Sessions**

**Session 3**

**Watershed Management—Approaches to Integrated Watershed Management**

**Moderators:**

Becky Weig, CH2M
David Bowen, Wright-Pierce

**Provincetown**

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**Session 4**

**CSO I—Repurposing and Renewal to Extend Existing Wet Weather Assets**

**Moderators:**

James Drake, CDM Smith
Jeff Cantwell, Flow Assessment Services

**Salon A/B**

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**Monday**

**8:30–10:30 AM**

**Session 1**

**Technical Sessions 1–5**

**The Cape Cod 208 Plan Update**

Thomas Cambareri, Cape Cod Commission
Scott Michaud, Cape Cod Commission

**An Integrated Watershed Approach to Nutrient Management**

Matthew Davis, Brown and Caldwell
Jeffrey Herr, Brown and Caldwell

**Optimizing Performance of Existing Stormwater Infrastructure through Real Time Control Retrofits—A Minnesota Pilot Study**

David Roman, Geosyntec Consultants
Scott Landers, OptiRTC
David Richardson, Geosyntec Consultants

**Managing Phosphorus Loads to Pearly Pond**

Rebecca Balke, Comprehensive Environmental Inc.
Ben Lundsted, Comprehensive Environmental, Inc.

**Removing Gully Brook from the CSO system and restoring it to the MS4 system**

Cynthia Baumann, CDM Smith
Joseph Laliberte, CDM Smith
Jason Waterbury, The MDC

**Walking the Plank—Lessons Learned Inside a 140-Year-Old Combined Sewer**

Michael Sullivan, MWH Global
David VanHoven, MWH Global

**The Final Link in MWRA's Long-term CSO Control Plan for Alewife Brook**

Deborah Duhamel, Stantec
Jeremy Hall, MWRA
Michael Carroll, Stantec

**The Benefits of Sound Planning—How Augusta Maine's 25-year Adapted CSO Abatement Program Netted Positive Results**

Steven Freedman, AECOM
Brian Tarbuck, Greater Augusta Utility District
Monday 8:30–10:30 AM

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

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

**Technical Sessions 1–5**

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

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

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

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

Monday 2:00–4:30 PM

**Technical Sessions 6–11**

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

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

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

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

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

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

New England Water Innovation Network Primer
Karen Golmer, NEWIN

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

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

The Nutrient Roadmap
Jane Madden, CDM Smith

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

Technical Sessions 6–11

Session 8  
Small Communities/ Water for People— Wastewater Around the World  
Moderators: 
Robert Robinson, City of Manchester, NH  
David Bedoya, MWH Global Wellesley

Session 9  
Collection Systems I— Episode I: The Piping Menace  
Moderators: 
John Murphy, Stantec  
Kevin Garvey, CDM Smith  
Salon C/D

Technical Sessions 6–11

Monday  
2:00–4:30 PM

Session 10  
Plant Operations I— BNR—from Concept to Implementation, Part 1  
Moderators: 
Ben Levesque, Tighe & Bond  
Ed Rushbrook, Process Analysis  
Salon A/B

Session 11  
Industrial Wastewater— from Regulation to Innovation  
Moderators: 
Lisa Andrews, Barr Engineering  
Sarah White, UniFirst Corp.  
Provincetown

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

**Technical Sessions 12 – 16**

**Session 12**  
Hot Topic: Innovative Solutions to Equipment and Operational Challenges  
**Moderators:** Mary White, MWRA  
Andy Morrill, Wright-Pierce  
**Suffolk**

**Multiparty Collaboration—A Cost-Effective Culvert Replacement**  
Kathryn Edwards, Arcadis  
Robert Cantoreggi, Town of Franklin, MA

**Leveraging Technology to Increase Catch Basin Maintenance Efficiency**  
Matt Bianchi, Utility Cloud  
John Lopes, Boston Water and Sewer Commission

**Adventures in Phosphorus Removal**  
Daniel Sullivan, Town of Wallingford, CT  
Brian Hickey, CDM Smith

**Bay Park STP Flood Mitigation Upgrade Program**  
Eric Mills, Hazen and Sawyer

**Session 13**  
MassDEP I/I—Implementing Your MassDEP 314 CMR 12.00 I/I Program... by 2017!  
**Moderators:** Mike Bonomo, ADS Environmental Services  
Robert Dunn, Stantec  
**Salon A/B**

**Overview of the MassDEP I/I Program**  
Kevin Brander, MassDEP

**Case Study—Framingham, MA Experience with I/I Reduction Program**  
James Barsanti, Town of Framingham, MA

**Important Considerations of an I/I Investigation or “Getting Bang for Your Buck”**  
Patrick Stevens, ADS Environmental Services  

**Panel Discussion:**  
James Barsanti, Town of Framingham, MA  
Kevin Brander, MassDEP  
Patrick Stevens, ADS Environmental Services

**Session 14**  
Water Reuse—Economics and Sustainability  
Drive Innovation in Wastewater  
**Moderators:**  
Vanessa Borkowski, Stantec  
Austin Weidner, Tighe & Bond  
Simmons

**Use of Tertiary UF for Water Reuse Reduces Costs and Provides a Reliable Source for Industry**  
Melanie Blake, Koch Membrane Systems, Inc.  
Henia Yacubowicz, Koch Membrane Systems, Inc.

**Phosphorus-Recovery from Waste Activated Sludge (WAS) in Enhanced Biological Phosphorus Removal (EBPR) Process**  
Yuqi Wang, Northeastern University  
April Gu and Annalisa Onnis-Hayden, Northeastern University

**Water Conservation Technology for Recirculating Cooling Systems**  
Karen Golmer, NEWIN

**Utilizing Stormwater for Cooling Tower Reuse at a University CoGen Facility**  
Jay Sheehan, Woodard & Curran

**Session 15**  
Stormwater I—Putting the Horse Before the Cart—Planning Carefully To Get the Most Benefit from a Stormwater Program  
**Moderators:**  
Angela Blanchette, Town of Scarborough, ME  
Kevin Brander, MassDEP  
Patrick Stevens, ADS Environmental Services

**Portland Maine’s Design Standards and O&M Plan for Municipal Green Infrastructure**  
David Senus, Woodard & Curran  
Zach Henderson, Woodard & Curran

**Step-by-Step, Improving the Environment through a Comprehensive Illicit Discharge Detection and Elimination Program while Facing a Consent Decree**  
Teri Demers, Woodard & Curran  
Garrett Bergey, Stacey DePasquale Engineering

**Trying to Keep a Step Ahead: How Framingham is Preparing for the New MS4 Requirements**  
Kerry Reed, Town of Framingham, MA  
Eric Johnson, Town of Framingham, MA

**Proactive Preparation—A Small Community’s Approach Towards MS4 Compliance**  
Jon Gregory, Tata & Howard

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

Session 16
Plant Operations II—BNR—from Concept to Implementation, Part 2
Moderators:
Jon Hume, Wright-Pierce
Steve Sloan, Portland Water District
Provincetown

Technical Sessions 12–16

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

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

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

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

Tuesday 1:30–4:00 PM

Session 17
Hot Topic: Regulatory Challenges
Moderators:
Dave Polcari, CDM Smith
Joe Kietner, City of Chicopee, MA

Session 18
Operator Ingenuity
Moderators:
Tim Vadney, Wright-Pierce
Sandra Tripp, GHD Inc.

Exhibit Hall Break
10:00–10:30 AM

Exhibit Hall Break
2:30–3:00 PM

Technical Sessions 17–22

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

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

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

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

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

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

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

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

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

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

Drive Chain Removal Assistive Device and Simple Fix for Railing Removal and Access
Joe Crosby, Narragansett Bay Commission
Tuesday  
1:30–4:00 PM  

Session 19  
Information Technology & Automation—Continuous Improvement in the Instrumentation, IT and Automation Sectors  
Moderators:  
John Trofatter, Duperon Corporation  
John Sykora, Weston & Sampson  
Simmons

Technical Sessions 17 – 22

Integrating Wireless Technology into Wastewater Treatment Process Monitoring  
Daniel Capano, Diversified Technical Services, Inc.

Optimization of Supplemental Carbon Feed through Automation  
Anthony Giovannone, Environmental Operating Solutions, Inc.

Boyd Gregg, Environmental Operating Solutions, Inc.

How Public Utilities Increase Productivity for Annual FOG Inspections  
Ricky Langley, Utility Cloud

NO2—20 Years of Tracking an Elusive Quarry with Online Spectrometry  
Bruce Stevens, ASA Analytics

Bernard Beemster, Scott Kahle, and Roy McKnight, ASA Analytics

Session 20  
Collection Systems II—Episode II: Attack of the Odors and FOG  
Moderators:  
Kevin Olson, Wright-Pierce  
Ashley Dunn, Town of Framingham, MA  
Wellesley

Rooftop Biofilter to Solve Odor Concerns in Downtown Rockport, MA  
Lauren Hertel, Stantec

Joe Allen, Stantec

Ensuring Your Collection System for the Future: Recovering from H2S Attack  
Gerald Furrier, CDM Smith

Caitlin Carbonello and Kristie Wagner, CDM Smith

Richard Feminella, Town of Greenwich, CT

A Proactive Approach to Assessing and Managing the Wastewater Collection System, and a UV Cured CIPP Rehabilitation  
Joseph Hausmann, Wright-Pierce

Take It Off! Odor Stripping Solves Odor Issues in Red Deer’s Collection System  
Michael Headc, Stantec

Joel Sawatzky, Stantec

Tuesday  
1:30–4:00 PM  

Session 21  
Asset Management I—Asset Management Trends  
Moderators:  
George Pendleton, Martinez, Couch & Associates

Lori Carriero, Tighe & Bond

Salon C/D

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

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

Enhanced Asset Management through Vulnerability Assessment  
Linda Warren, Launch! Consulting, LLC

Sanjay Puranik and George Brown, Hazen and Sawyer

Vincent Morello, Broward County Water and Wastewater Services

ISO55000 & Asset Management  
Aditya Ramamurthy, Hazen and Sawyer

Ryan Nagel, Hazen and Sawyer

Session 22  
Energy—Something Tried and Something New—Energy Reduction and Production Projects  
Moderators:  
David Van Hoven, MWH Global

David Michelson, South Essex Sewerage District

Provincetown

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

Ruth Gay, Environmental Systems Corporation

Anthony Piazza, Town of Simsbury, CT

Worth the Trouble? Raw Wastewater Energy Recovery Case Study  
Anastasia Rudenko, GHD Inc.

Andrew Boule, Town of Barnstable, MA

Marc Drainville, GHD Inc.

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

Teno West, Pannone Lopes Devereaux and West LLC

A Transition to Resource Recovery Facility through the Installation of Enhanced Primary Treatment  
Alex Wright, ClearCove
Wednesday
8:30–11:00 AM

Technical Sessions 23–27

Session 23
Hot Topic: Watershed Nitrogen Tracking and Accounting
Moderators: Patricia Chesebrough, Weston & Sampson, Cynthia Baumann, CDM Smith
Salon C/D

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

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

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

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

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

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

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

Maximizing Long Term Reliability through Commissioning
Jen Muir, JKMuir

Session 24
Sustainability—Sustainable and Resilient Infrastructure
Moderators: Meredith Zona, Stantec, David Peterson, Kleinfelder
Provincetown

Session 25
Safety—Safety Updates for Today’s Plant Challenges
Moderators: Dave Aucoin, Narragansett Bay Commission
James Laliberte, NEIWPCC
Suffolk

Session 26
CSO II—Wet Weather Conveyance Improvements and Impact Mitigation
Moderators: Steven Freedman, AECOM
Virginia Roach, CDM Smith
Salon A/B

Exhibit Hall Break
9:30–10:00 AM

Exhibit Hall Break
9:30–10:00 AM

Technical Sessions 23–27

Session 25
Safety—Safety Updates for Today’s Plant Challenges
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Session 26
CSO II—Wet Weather Conveyance Improvements and Impact Mitigation
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Salon A/B

Construction Challenges of the Seekonk Combined Sewer Overflow (CSO) Interceptor
Roger Norton, CDM Smith
William Cotter, Mohammad Reza Jafari, and Robert Otosky, CDM Smith
A CSO Tunnel for a Century: Challenges of Planning and Design of the DC Clean Rivers Project
Rosa Castro-Krawiec, McMillen Jacobs Associates
Rafael Castro and Joel Kantola, McMillen, Jacobs Associates
Nashua Reduces CSOs with Green Infrastructure and Trenchless Technology
Nicholas Ellis, Hazen & Sawyer
Joseph Mendola, City of Nashua, NH
Capacity Assessment and Management Strategies to Control an Urban Stream in Lewiston, Maine
Jeff Beaule, City of Lewiston, ME
Daniel Bisson and Robert Musci, CDM Smith
Technical Sessions 23–27

Session 27
Asset Management II—Case Studies

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

Simmons

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

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

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

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

Wednesday
8:30–11:00 AM

Technical Sessions 28–30

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

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

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

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

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

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

Wednesday
1:00–3:00 PM

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

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

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

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

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

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

Salon A/B

Exhibit Hall Break
9:30–10:00 AM
Technical Sessions 28–30

Wednesday
1:00–3:00 PM

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

Moderators:
Peter Garvey, Dewberry
Thomas Loto, Kleinfelder

Salon C/D

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

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

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

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

Monday
8:30 AM – 4:30 PM

Session with Authors
1:30 – 3:30 PM
4th Floor

Poster Board Displays

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Student Board Display Competition

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

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

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

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

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

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

Moderators

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<td>Mark Richards</td>
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<td>David Richardson</td>
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<td>Albert Robbat</td>
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<td>Daniel Roman</td>
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<td>Robert Roseen</td>
<td>Horsley Witten Group</td>
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<tr>
<td>Anastasia Rudenko</td>
<td>GHD</td>
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<tr>
<td>Frank Russo</td>
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<td>Kirsten Ryan</td>
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<td>Nicholas Rystrom</td>
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<td>Bikram Sabherwal</td>
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<td>John Samuelian</td>
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<td>Paul Sauer</td>
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<td>Joel Sawatzky</td>
<td>Stantec</td>
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<td>Emily Scerbo</td>
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<td>Jim Schettler</td>
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<td>Peter Sellers</td>
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<td>David Senus</td>
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<td>Lindsey Shields</td>
<td>Wright-Pierce</td>
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<tr>
<td>Sahar Shirani</td>
<td>Northeastern University, Graduate Student Session</td>
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<td>Masoud Mahdi Softani</td>
<td>Northeastern University, Graduate Student Session</td>
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<td>Timothy St. Germain</td>
<td>Fuss &amp; O’Neill</td>
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<td>Paul Stacey</td>
<td>Great Bay NERRS</td>
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<td>Eric Staunton</td>
<td>Univ. of North Carolina-Chapel Hill/CDM Smith</td>
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<td>Mark Steichen</td>
<td>Black &amp; Veatch</td>
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<td>Bruce Stevens</td>
<td>ASA Analytics</td>
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<td>Patrick Stevens</td>
<td>ADS Environmental Services</td>
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<td>Michael Sullivan</td>
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<td>Nick Tooker</td>
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<td>Steven Torres</td>
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<td>Elizabeth Troop</td>
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<td>Michael Trotta</td>
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<td>Jason Turgeon</td>
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<td>Thomas Tyler</td>
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<td>Tim Vadney</td>
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<td>David Van-Hoven</td>
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<td>Raymond Vermette</td>
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<td>Yuqi Wang</td>
<td>Northeastern University</td>
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<td>Linda Warren</td>
<td>Launch! Consulting, LLC</td>
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<td>Jason Waterbury</td>
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<td>Alison Watts</td>
<td>University of New Hampshire</td>
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<td>Grant Weaver</td>
<td>The Water Planet Company</td>
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<tr>
<td>Ray Weaver</td>
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<td>Kirk Westphal</td>
<td>CDM Smith</td>
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<td>Kaela Wiklund</td>
<td>Town of North Attleborough, MA</td>
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<td>Carl Wilcox</td>
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<td>Scott Williamson</td>
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<td>Karen Wong</td>
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<td>Julie Wood</td>
<td>Charles River Watershed Association</td>
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<td>Alex Wright</td>
<td>ClearCove</td>
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<td>David Wright</td>
<td>Weston &amp; Sampson</td>
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<td>Henia Yacubowicz</td>
<td>Koch Membrane Systems, Inc</td>
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<td>David Young</td>
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<td>Mike Zabiansky</td>
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<td>Christian Zeigler</td>
<td>Protein Matrix LLC</td>
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<tr>
<td>Jen Zoppo</td>
<td>CH2M</td>
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</table>
Annual Business Meeting

Welcome
Matt Formica, NEWEA President

Treasurer Report
FY 2015 Fiscal Report – Frank Occhipinti

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

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

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

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

The remaining incumbents are fulfilling unexpired terms:

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

Adjourn
Matt Formica, NEWEA President

Guest Program

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

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

Breakfast
7:30 AM • Regis

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

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

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

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

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

ADS Environmental Services (SILVER SPONSOR)
ADS provides a full range of flow monitoring equipment and service as well as 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: Peter Frick, 51 Wentworth Ave., Ste 15, Londonderry, NH 03053, tel: (203) 725-4062, pfrick@idexcorp.com, www.adserv.com

Advanced Drainage Systems, Inc.
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, aaron.cheever@ads-pipe.com, www.ads-pipe.com

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

Allied Powers LLC

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

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

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

Aqua Solutions, Inc. (GOLD SPONSOR)
Contact: Jim DeLuca, 154 West Grove Street, Middleboro, MA 02346, tel: (508) 947-5777, info@aquasolutionsinc.net, www.aquasolutionsinc.net

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

Aquaturbo Systems, Inc.
Fixed low-speed bottom aerator/mixers, floating surface aerators, fixed low-speed surface aerators, screwweller technology combines high efficiency with gentle action and complete mixing. Foam breakers and submersible mixers.

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

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

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

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

Associated Electro-Mechanics Inc.
Contact: Mark Dubois, 185 Rowland Street, Springfield, MA 01107, tel: (413) 781-4276, mdubois@aemservices.com, www.aemservices.com
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, flood control, tank covers, control valves, odor control, and hydraulic actuators.
Contact: Simon Moseley, 354 West Boylston Street, Ste 221, West Boylston, MA 01583, tel: (508) 755-0440, simon@afltinc.com, www.afltinc.com

Atlas CopCo  Booth #410-413, 473, 474, 481, 482, 489, 490
Contact: Zachary Azra, 15045 Lee Rd, Houston, TX 77032, tel: (832) 649-0119, zachary.azra@atlascopco.com, www.atlascopco.com, Wescor Associates, Inc.

BAU/HOPKINS  Booth #422-424, 430-432
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 02760, tel: (508) 699-9300, ahopkins@bauhopkins.com, www.bauhopkins.com, BAU/HOPKINS

BDP  Booth #165

Bilfinger Airvac Water Technologies  Booth #171
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

Blake Equipment  Booth #462, 463
Blake Equipment is a full service manufacturer’s representative of pumps, controls, and prepackage 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, ADI Water Solutions, 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 #466
Blue Water Technology’s, Inc.  Booth #466
Blue Water has over 20+ years of experience in providing solutions for wastewater treatment. We provide a comprehensive range of services, including design, construction, commissioning and operation. Our experts can help you with everything from project design to startup and ongoing operation.
Contact: C.J. Strain, 10450 N Airport Rd, Hayden, ID 83835, tel: (888)710-2583, cjstrain@bluewater-technologies.com, www.blue2o.net, Russell Resources, Inc.

BMC Corporation  Booth #187
Contact: Rich Corsetti, PO Box 60, PinehurstStreet, MA 01866, tel: (781) 273-0398, rich@pipejetter.com, www.pipejetter.com

Boerger, LLC  Booth #154
Boerger specializes in reliable and cost effective Rotary Lobe Pumps and Macerating Technology for the conveyance of low to high viscous and abrasive materials.
Contact: Pete Masson, 2860 Water Tower Place, Chanhassen, MN 55317, tel: (612) 435-7300, pma@boerger.com, www.boerger.com, The MAHER Corporation

Brentwood Industries, Inc.  Booth #156
Brentwood Industries 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 dregge systems.
Contact: David Barrasse, 500 Spring Ridge Drive, Reading, PA 19610, tel: (610)374-5109, water@brentwoodindustries.com, brentwoodindustries.com, The MAHER Corporation

Burt Process Equipment  Booth #181
Contact: Kimball Putnam, 100 Lookout Dr, Hamden, CT 06514, tel: (203) 287-1985, kimballputnam@burtprocess.com, www.burtprocess.com

C. N. Wood Co., Inc.  Booth #188
C.N. Wood is New England’s premier distributor for Environmental Equipment. Carrying such lines as Elgin, Vactor, Rapidview, New Way, Gradall and more.
Contact: Michaela Kofac, 200 Merrimac Street, Woburn, MA 01801, tel: (781) 935-1919, mkofac@cn-wood.com, www.cn-wood.com

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, 3200 University Ave, Marshall, TX 75670, tel: (800) 641-9245, howard.yerger@cabotcorp.com, www.cabotcorp.com

Carl Lueders & Company  Booth #485
Manufacturers’ representative for a variety of instrumentation and controls equipment. Sensors include level, flow, pressure, temperature and analytical types. Monitors include panel meters, pump controllers, recorders, and wireless telemetry equipment. Brand names include Telog Instruments, Badgermeter, KPSI and Kessler Ellis Products.
Contact: Mark Lueders, 258 Main Street, Unit #6, Medfield, MA 02052, tel: (508) 359-7577, markalueders@cs.com, www.luederscompany.com

Carlsen Systems, LLC  Booth #425
Contact: Craig Burmeister, 176 Armity Rd. #102, Woodbridge, CT 06525, tel: (203)663-1314, www.carlensystems.com

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 Street, Englewood, NJ 07631, tel: (800) 568-9798, rlopez@carterpump.com, www.carterpump.com, Mechanical Solutions, Inc.

Carus Corporation  Booth #494
Carus Corporation manufactures a range of products for the municipal and industrial markets, with the majority of our product uses being environmental applications and water treatment.
Contact: Luis Hernandez, 315 Fifth Street, Peru, IL 61354, tel: (800) 435-6856, mizziness@gmail.com, www.caruscorporation.com

Casella Organics  Booth #143
Casella Organics is an industry leader in the transportation, management, beneficial reuse, and marketing of organic and mineral resources including short paper fiber, ash, liming agents, food wastes, biosolids, and compost. Our experience and knowledge with liquid and solid residuals help clients build, manage and maintain sustainable and effective resource solutions.
Contact: Jen McDonnell, 110 Main Street, Suite 1308, Saco, ME 04072, tel: (207) 247-3600, jen.mcdonnel@casella.com, www.casellaorganics.com

Ceric Environmental Controls, Inc.  Booth #410-413, 473, 474, 481, 482, 489, 490
Portable multi-tracker controller and sensor with control box for process control.
Contact: Jim Radney, Po Box 420097, Atlanta, GA 30342, tel: (404) 256-3097, jradney@cericusa.com, www.cericusa.com, Wescor Associates, Inc.
<table>
<thead>
<tr>
<th>Company/Service/Division</th>
<th>Contact Information</th>
<th>Booth</th>
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<tr>
<td>Continental Carbon Group</td>
<td>Manufacturer and supplier of products and systems for odor control. Continental Carbon acquired the Odor Control Division formerly of Calgon Carbon Corporation in 2014, which includes a range of proven technologies with a well-established installation base in municipal odor control applications. Contact: 1100 South Service Rd., Ste 321, Stoney Creek, Ontario L8E 0C5, tel: (905) 643-7615, <a href="http://www.continental-carbon.com">www.continental-carbon.com</a>, Russell Resources, Inc.</td>
<td>#465</td>
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<td>Coyne Chemical Environmental Services</td>
<td>Providing performance based chemical solutions to the municipal and industrial water and wastewater treatment industries. We are a full line chemical distributor offering onsite bench testing followed by in-plant trials to validate performance. Treatment options including biosolids separation, odor and corrosion control, membrane cleaners, phosphorus removal, heavy metals reduction, disinfection/CSO outfall treatment and much more. Contact: Kevin Brassard, 3015 State Road, Croydon, PA 19021, tel: (215) 785-3000, <a href="mailto:kbrassard@coynechemical.com">kbrassard@coynechemical.com</a>, <a href="http://www.coyneenvironmental.com">www.coyneenvironmental.com</a></td>
<td>#111</td>
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<td>Crete Specialty Products, Inc.</td>
<td>Leading manufacturer of manhole rehabilitation products, including mechanical chimney seals, PRO-RING manhole adjustment system including round, square, and rectangular adjustment rings, pipe joint seals, lid plugs, lid gaskets, and inflow dishes. Contact: Robin Wolf, N16W23390 Stoneridge Dr Ste A, Waukesha, WI 53188, tel: (262) 542-8153, <a href="mailto:rwolf@creteseals.com">rwolf@creteseals.com</a>, <a href="http://www.creteseals.com">www.creteseals.com</a></td>
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<td>CSI Controls</td>
<td>Specializes in designing and fabricating control systems for water and wastewater applications. CSI Controls/PRIMEX designs complete custom systems to meet your specific needs, no matter how unique. Contact: Greg Harmon, 220 Ohio Street, Ashland, OH 44805, tel: (800) 363-5842, <a href="mailto:greg.harmonco@gmail.com">greg.harmonco@gmail.com</a>, <a href="http://www.csicontrols.com">www.csicontrols.com</a>, Harmon &amp; Co., Inc.</td>
<td>#415</td>
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<tr>
<td>CST Covers</td>
<td>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: Terri Mooney, 3600 Rio Vista Avenue, Orlando, FL 32805, tel: (800) 327-7791, <a href="mailto:terrim@cuesinc.com">terrim@cuesinc.com</a>, <a href="http://www.cuesinc.com">www.cuesinc.com</a></td>
<td>#109</td>
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<td>CUES</td>
<td>We are proud to be highlighting some key products including BioMag and CoMag, DuPcron screens, Medora Corp/SolarBee mixers as well as several solutions for low N and P limits. Please stop by Booth #175 and learn more about Inovar’s quiet and efficient turbo blowers and ED’s Streamline Diffuser. Contact: Dave/Mike Sullivan/Sullivan, 19 Batchelder Rd, Ste 2B, Seabrook, NH 03874, tel: (603) 474-2484, <a href="mailto:info@davidsullivan.com">info@davidsullivan.com</a>, <a href="http://www.davidsullivan.com">www.davidsullivan.com</a></td>
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<td>DeZURIK, Inc.</td>
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<td>Contact: Jason Bowman, 400 Silver Cedar Court, Ste. 200, Chapel Hill, NC 27514, tel: (919) 619-9487, <a href="mailto:jason.bowman@extexinc.com">jason.bowman@extexinc.com</a>, <a href="http://www.extexinc.com">www.extexinc.com</a>, Wescor Associates, Inc.</td>
<td>#410-413, 473, 474, 481, 482, 489, 490</td>
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<td>Company Name</td>
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<td>Fournier Industries</td>
<td>#456</td>
<td>Contact: Brett McQuade, 2714 3rd Avenue West, Bradenton, FL 34205, tel: (941)748-8549, <a href="mailto:b.mcquade@rotary-press.com">b.mcquade@rotary-press.com</a>, <a href="http://www.fournierindustries.com">www.fournierindustries.com</a>, Russell Resources, Inc.</td>
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OR-TEC, INC. Booth #401-409
Contact: Jim O’Leary, 14500 Industrial Ave. South, Maple Heights, OH 44137, tel: (216) 475-5225, jim@ortec.com, www.ortec.com, F. R. Mahony & Associates

Parker Corporation Booth #157
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Contact: Tim Collins, 40 Industrial Park Drive PO Box 9, Franklin, NH 03235, tel: (603) 228-1200, info@perfchem.us, www.perfchem.us/

Perma-Liner Industries, Inc. Booth #419

PillAerator GmbH Booth #487
Manufacturer of High speed turbo blowers with magnetic bearings

PINNACLE OZONE Solutions, LLC Booth #401-409
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Contact: Steve Borchardt, 11 Old Sugar Hollow Road, Danbury, CT 06810, tel: (203) 792-8686, sales@pmc1.com, www.pmc1.com

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Spartan Tool LLC

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**SSI Aeration, Inc.**

Booth #410-413, 473, 474, 481, 484, 489, 490


**Stacey DePasquale Engineering, Inc. (SDE)**

Booth #444

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Booth #441

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Booth D

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**Synagro Northeast LLC (SILVER SPONSOR)**

Booth #180

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**TechSalesNE**

Booth #497, 498, 499

TechSalesNE is a network which includes Principals and Sales Engineers that have combined forces to better serve the New England and WWTP market. TechSales/Boyson is focused on providing Municipal and Industrial Water and Wastewater Process Equipment Solutions. TechSales/Boyson represents OIVO microBLOX Package Plants, Evoqua Intake Screens, Envirodyne, Ceniris Centrifuges and CNN AirPlex, MFR FRP Products and Hallsten Aluminum Covers, Atara Conveyors Adelgine Water Treatment Ion and Maganese Removal Systems and other major companies such as GW&E, FCR and Ozone Systems, Raschig USA (Jaeger Media) IronBrook UV, BCR Sludge Stabilization, Gooch Heat Exchangers and Online SS pipe and aeration systems.

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Booth #426, 427, 428, 429, 501, 502, 503, 504

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**Ted Berry Company, Inc.**

Booth #137

The Ted Berry Company was founded in 1972 by Ted Berry. Today the business is still family-owned and operated and provides services to both municipalities and industry throughout New England. The company operates a number of service groups.

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**The MAHER Corporation (GOLD SPONSOR)**

Booth #152-158, 182

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

**The Wise Company**

Booth #189-192

**Thermal Process Systems, Inc.**

Booth #456

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Booth #200

U.S. owned, Thompson Pipe Group engineers, manufactures, and delivers corrosion-resistant FLOWTITE® FRP for pressure and wastewater applications. FLOWTITE® does not require linings, coatings, wraps or cathodic protection.

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Booth #457

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**TrojanUV**

Booth #153

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

Contact: Una Duncan, 3020 Gore Road, London, Ontario N5V 4T7, tel: (519)457-3400, info@trojanuv.com, trojanuv.com, THE MAHER CORPORATION
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Booth #496

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Vichtal  
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Vogelsang  
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Vortex Infrastructure Products  
Booth B

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Booth #401-409

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Walker Wellington LLC  
Booth #475, 476, 477

Wastecorp Pumps, LLC. (Part of Wescor)  
Booth #410-413, 473, 474, 481, 482, 489, 490

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Water & Waste Equipment Inc.  
Booth #178, 179


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<th>Booth #</th>
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<td>#102-104</td>
<td>Wilo - EMU Pumps &amp; Mixers</td>
<td>Contact: Harold Adams, 86 Genesis Parkway, Thomasville, GA 31792, tel: (866) WILO-USA, <a href="mailto:harold.adams@wilo-usa.com">harold.adams@wilo-usa.com</a>, <a href="http://www.wilo-usa.com">www.wilo-usa.com</a>, Mechanical Solutions, Inc.</td>
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<td>WhiteWater, Inc.</td>
<td>Contact: Marcus Thompson, 2538 Worcester Road, Charlton, MA 01507, tel: (888)377-7678, <a href="mailto:mthompson@rhwhite.com">mthompson@rhwhite.com</a>, <a href="http://www.whitewateronline.com">www.whitewateronline.com</a></td>
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<tr>
<td>#102-104</td>
<td>Wilo - EMU Pumps &amp; Mixers</td>
<td>Contact: Harold Adams, 86 Genesis Parkway, Thomasville, GA 31792, tel: (866) WILO-USA, <a href="mailto:harold.adams@wilo-usa.com">harold.adams@wilo-usa.com</a>, <a href="http://www.wilo-usa.com">www.wilo-usa.com</a>, Mechanical Solutions, Inc.</td>
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<td>Zoeller Engineered Products</td>
<td>Contact: Steve Doolittle, 3649 Cane Run Road, Louisville, KY 40214, tel: (800) 928-7867, <a href="mailto:steved@zoeller.com">steved@zoeller.com</a>, <a href="http://www.zoellerengprod.com">www.zoellerengprod.com</a></td>
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<td>Whipps, Inc.</td>
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<td>#198</td>
<td>Zoeller Engineered Products</td>
<td>Contact: Steve Doolittle, 3649 Cane Run Road, Louisville, KY 40214, tel: (800) 928-7867, <a href="mailto:steved@zoeller.com">steved@zoeller.com</a>, <a href="http://www.zoellerengprod.com">www.zoellerengprod.com</a></td>
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<td>WhiteWater, Inc.</td>
<td>Wastewater treatment and conveyance including operations, management, influent and effluent sampling, preventative maintenance programs, chemical treatment systems, pump station maintenance, regulatory reporting, and inspection services. Contact: Marcus Thompson, 2538 Worcester Road, Charlton, MA 01507, tel: (888)377-7678, <a href="mailto:mthompson@rhwhite.com">mthompson@rhwhite.com</a>, <a href="http://www.whitewateronline.com">www.whitewateronline.com</a></td>
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<td>WILO-EMU</td>
<td>Design of submersible mixers for denitrification processes in wastewater. Pumps, both submersible &amp; dry pit types for pump stations in wastewater applications. WILO can provide extended warranties and all equipment can be price competitive. Contact: Rick Nash, 86 Genesis Parkway, Thomasville, GA 31792, tel: (866) WILO-USA, <a href="mailto:rick.nash@wilo-usa.com">rick.nash@wilo-usa.com</a>, <a href="http://www.wilo-usa.com">www.wilo-usa.com</a>, Wescor Associates, Inc.</td>
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<td>#198</td>
<td>Zoeller Engineered Products</td>
<td>Contact: Steve Doolittle, 3649 Cane Run Road, Louisville, KY 40214, tel: (800) 928-7867, <a href="mailto:steved@zoeller.com">steved@zoeller.com</a>, <a href="http://www.zoellerengprod.com">www.zoellerengprod.com</a></td>
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