



**NEWEA**  
WORKING FOR WATER QUALITY

CONFERENCE PROGRAM

# ENVIRONMENTAL STEWARDSHIP IN THE 21<sup>ST</sup> CENTURY

New England Water Environment Association Presents:

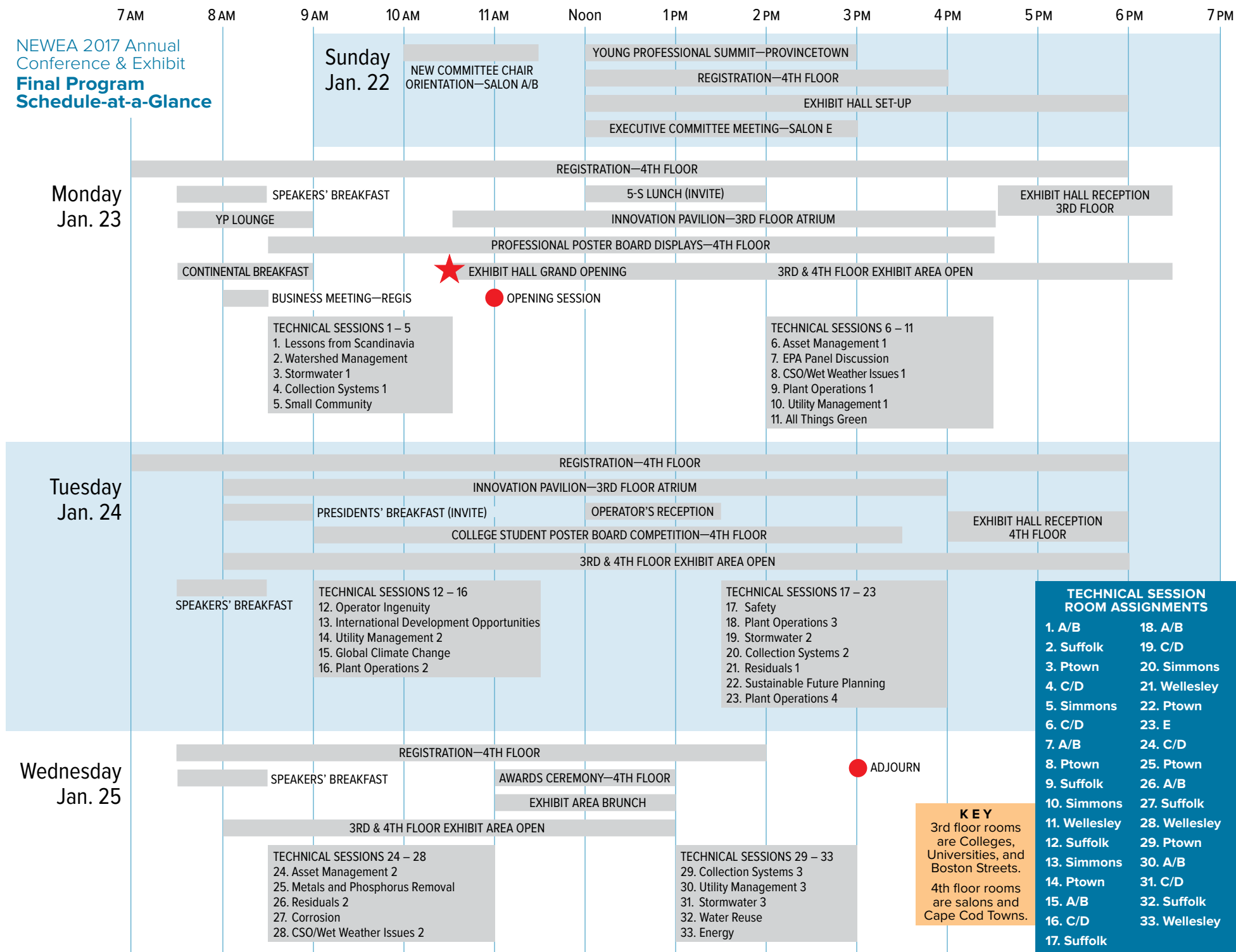
## NEWEA 2017 Annual Conference & Exhibit

January 22 – 25 | Boston Marriott Copley Place | Boston, MA

# Miscellaneous Events and Committee Meetings

<b>Sunday, January 22, 2017</b>		
Committee Chair & Council Director Orientation	Salon A/B	10:00 – 11:30 AM
Executive Committee	Salon E	Noon – 3:00 PM
YP Summit	Provincetown	Noon – 3:00 PM
<b>Monday, January 23, 2017</b>		
Awards Committee	Orleans	8:30 – 10:00 AM
Plant Operations Committee	Falmouth	9:00 – 10:30 AM
CSO/Wet Weather Committee	Champions	Noon – 1:00 PM
Safety Committee (Mtg Moved to Tuesday)	Champions	Noon – 1:00 PM
Stormwater Committee	Regis	Noon – 1:00 PM
Watershed Management Committee	MIT	Noon – 1:00 PM
Water Reuse Committee	Salty Pig Restaurant	Noon – 2:00 PM
YP Committee Meeting	Legal Sea Foods	Noon – 2:00 PM
Industrial Wastewater Committee	Champions	Noon – 1:30 PM
Asset Management	BU	Noon – 1:30 PM
Operations Challenge Committee	Orleans	1:00 – 2:00 PM
Lab Certification	Hyannis	1:00 – 2:00 PM
Membership Committee	Falmouth	3:00 – 4:00 PM
Public Awareness Committee	Champions	3:00 – 4:00 PM
State Association Leadership	Regis	2:00 – 3:30 PM
Government Affairs Committee	Regis	3:30 – 5:00 PM
Sustainability Committee	Orleans	4:30 – 6:00 PM
Public Education Committee	Champions	4:30 – 5:30 PM
<b>Tuesday, January 24, 2017</b>		
Journal Committee	Orleans	7:30 – 8:30 AM
Sponsor Committee	Champions	9:00 – 10:00 AM
Laboratory Practices Committee	Berkeley	10:30 AM - Noon
Residuals Management	Champions	Noon – 1:00 PM
Collections Systems Committee	St. Botolph	Noon – 1:30 PM
Water for People	Salty Pig Restaurant	Noon – 1:30 PM
Microconstituents Committee	Orleans	1:00 – 1:30 PM
Student Activities Committee Meet & Greet	Clarendon	1:30 – 2:15 PM
NEWEA/NEWWA Association Leadership Team	Falmouth	2:00 – 3:30 PM
Student Poster Competition Reception	Clarendon	2:30 – 3:30 PM
Student and YP Professional Writing Workshop	Clarendon	3:30 – 4:00 PM
<b>Wednesday, January 25, 2017</b>		
WE&RF Sponsors Breakfast (by Invitation)	Vineyard/Yarmouth	7:30 – 9:00 AM
Photo Ready Room	Orleans	9:00 AM
Energy Committee	Falmouth	Noon – 1:00 PM
Award Ceremony & Lunch	Salon E	11:00 AM
<b>Speaker Breakfast/Ready Room (M, T, W)</b>	<b>Hyannis</b>	<b>7:30 AM</b>

NEWEA 2017 Annual  
Conference & Exhibit  
**Final Program**  
**Schedule-at-a-Glance**





Ray Willis  
2016 NEWEA President



Helen Gordon  
Program Committee Chair

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On behalf of the New England Water Environment Association (NEWEA), we welcome you to Boston and thank you for attending the 2017 NEWEA Annual Conference. As in years past, this year's conference will feature three days of technical sessions, two poster sessions that showcase both student and water quality professional works, and two floors of exhibitors featuring the industry's latest products, as well as our annual awards ceremony where we recognize and celebrate the great work and accomplishments of water quality professionals. In addition, this year we are especially excited to introduce the "Innovation Pavilion" showcasing new and emerging trends and products in the industry; the Innovation Pavilion is a collaboration between NEWEA and the New England Water Innovation Network (NEWIN).

As you will see when reviewing this program, there are many events taking place over the next few days; however we want to highlight a few here. First, Monday features our opening session and keynote speaker address, the water quality professional poster contest, and a day-long networking program dedicated to the young professional sector of the water quality industry.

Tuesday, traditionally known as NEWEA Operator Day, features technical sessions by operators for operators that demonstrate their ingenuity in addressing the day-to-day challenges of their profession. For operators in attendance on Tuesday, NEWEA and our state associations welcome you to attend the operator's luncheon. This annual luncheon is our way of demonstrating our appreciation to New England operators for the excellent work they do each and every day. Tuesday will also feature our student poster competition; please make it a point to stop by the poster session and see the future talent of our industry presenting some of their amazing work.

The final day of the conference features yet more highly-informative sessions as well as our lunch-time awards ceremony and the passing of the gavel to the next NEWEA President. The Awards Luncheon is a must-attend event, so if you do not have a ticket, make sure you try to get one in advance as it always sells out.

And every day of the conference, over 200 exhibitors are on hand to showcase their latest available equipment and services—be sure to visit the exhibit hall and engage in conversation with them to learn about all of the fascinating services and equipment, both innovative and tried-and-true, which are available in today's industry marketplace.

We encourage you to take advantage of all that the conference has to offer and to use this occasion to catch up with old acquaintances and to cultivate new ones. In keeping with the conference theme—Environmental Stewardship—throughout these three eventful days we wish to recognize and applaud the water quality professional as the original steward of the environment. Water quality professionals are the first line of defense in protecting public health, and are true champions when it comes to protecting the environment. This is something to be proud of, and we hope you take this message of pride in profession back with you to your personal role in this industry.

We wish to recognize the significant efforts of the conference committees, which include Program, Registration, Exhibits, Manufacturer's Representative, Awards, and Conference Arrangements.

And finally, we gratefully acknowledge the NEWEA Office Staff: Mary Barry, Janice Moran, and Linda Austin for their energy, professionalism, and patience in helping to put this great event together.

Ray Willis, NEWEA President  
Helen Gordon, NEWEA Program Committee Chair

## NEWEA 2016 EXECUTIVE COMMITTEE

President Raymond Willis III  
President Elect James Barsanti  
Vice President Janine Burke-Wells  
Treasurer Priscilla Bloomfield

Past President (Management Review) Matthew Formica  
Secretary Gerald Potamis  
Executive Director Mary Barry

WEF Delegate (10/13) Michael Wilson  
WEF Delegate (10/14) Daniel Bisson  
WEF Delegate (10/15) Susan Sullivan  
WEF Delegate (10/16) Frederick McNeill

### State Directors

Connecticut Jay Sheehan  
Maine Clayton "Mac" Richardson  
Massachusetts Michael Moreau  
New Hampshire Sean Greig  
Rhode Island Michael Spring  
Vermont Nathan Lavallee

### Council Directors

Collection Systems/Water Resource Council Virgil Lloyd  
Communications Council Director Jennifer Lachmayr  
Meeting Management Director Elena Proakis Ellis  
Outreach Council Jonathan Kunay  
Treatment, Systems Operations, &  
Management Council Marylee Santoro

## NEWEA 2016 COUNCILS

### Vice President Council

Utility Council Committee\* F. Adam Yanulis

### Management Review Council

Assessment and Development Committee Charles Tyler  
Awards Committee Charles Applebee  
Bylaws Committee Douglas Lee Miller  
Committee Member Appreciation Committee Daniel Roop  
Nominating Committee Michael Bonomo  
Sponsor Committee Dennis Vigliotte

## NEWEA 2016 COUNCILS (CONTINUED)

### Meeting Management Council

Conference Arrangements Committee Ronald Tiberi  
Exhibits Committee Paul Casey  
Manufacturers' Representative Committee James DeLuca  
Program Committee Helen Gordon  
Registration Committee Kerry Reed

### Communications Council

Journal Committee Joseph Boccadoro  
Media Relations Committee TBD  
Newsletter Committee Ashley Dunn  
Public Awareness Committee\* Katelyn Biedron/Meg Tabacsko  
Website Committee\* Robert Musci

### Treatment, Systems Operations, & Management Council

Asset Management Committee John Rogers  
Energy Committee Denise Breitenreicher  
Laboratory Practices Committee James Galasyn  
Microconstituents Committee Justin Irving  
Operations Challenge Committee Michael Burke  
Plant Operations Committee Raymond Vermette  
Residuals Management Committee Elaine Sistare  
Small Community Committee Daniel Ottenheimer  
Utility Management Committee Brian Armet

### Collection Systems/Water Resource Council

Collection Systems Certification Committee Gregory Kidd  
Collection Systems Committee John Digiacomio  
CSO/Wet Weather Issues Committee Ivonne Hall  
Industrial Wastewater Committee Sarah White  
Stormwater Committee David Bedoya/Vinta Varghese  
Sustainability Committee Courtney Eaton/Robert Montenegro  
Water Reuse Committee Nicholas Ellis  
Watershed Management Committee Philip Forzley

### Outreach Council

Government Affairs Committee Peter Grose  
Humanitarian Assistance and  
Grants Committee Tim Vivian  
Membership Committee David Archard  
Public Education Committee Geraldine Ciardelli  
Safety Committee David Aucoin  
Scholarships Committee Udayarka Karra  
Student Activities Committee Annalisa Onnis-Hayden  
Water for People Committee Anastasia Rudenko  
Young Professionals Committee Justin Skelly

\* Ad hoc





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As New Englanders, we love our days on the water. Sanitary sewage handling systems recycle wastewater from our homes and businesses to help keep our waterways enjoyable. Boston's Deer Island facility, the second largest of its kind in the U.S., can process over 1 billion gallons of wastewater daily. But did you know that water from our stormwater drain systems usually flows directly back into the local water environment? You can help by keeping storm drains free from trash, debris and common household chemicals. **Learn more about how water infrastructure systems work from John Sullivan, Chief Engineer at Boston Water and Sewer Commission, at [newea.org](http://newea.org)**

**Water for all.  
Water for life.**



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**comprehensive  
water stewardship**  
and its positive outcomes  
for a community's overall  
quality of life

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# Thinking of water in new ways

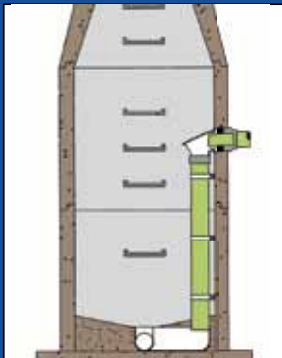


Sustainable stormwater, wastewater and drinking water solutions all require more collaboration than ever.

Join the dialogue at  
[bc1Water.com](http://bc1Water.com)

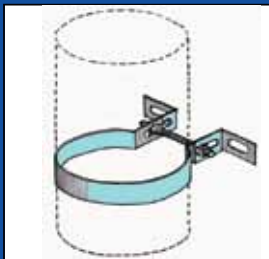


## Wastewater Solutions from RELINER®/DuranInc.



### Manhole Inside Drop

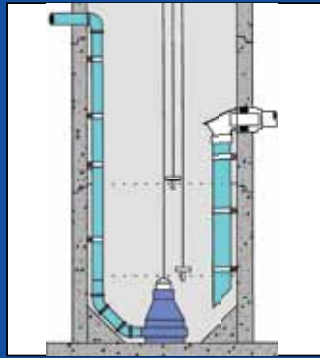
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- Simplify cleaning
- Stop Corrosion
- Install Quickly



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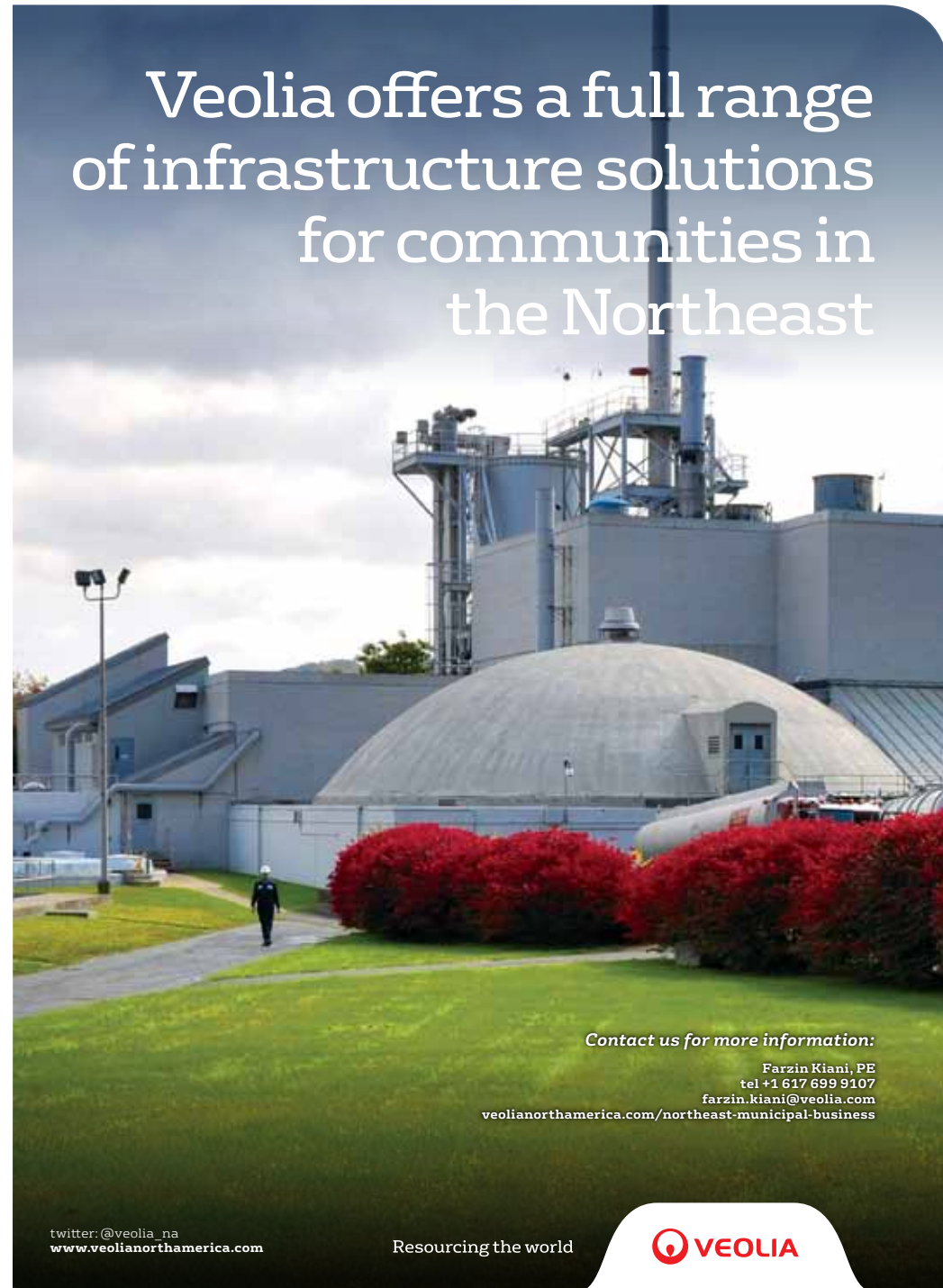
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- Prevent cavitation
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Resourcing the world







New England Water Environment  
Association Presents:

## Environmental Stewardship in the 21<sup>st</sup> Century

### NEWEA 2017 Annual Conference & Exhibit

January 22–25

Boston Marriott Copley Place, Boston, MA

## Conference Events

### Sunday, January 22

<b>New Committee Chair Orientation</b> (Salon A/B).....	10:00–11:30 AM
<b>Young Professional Summit</b> (Provincetown).....	Noon–3:00 PM
<b>Executive Committee Meeting</b> (Salon E) .....	Noon–3:00 PM
<b>Registration</b> (4th Floor).....	Noon–4:00 PM
<b>Exhibit Hall Set-Up</b> .....	Noon–6:00 PM

### Monday, January 23

<b>Registration</b> (4th Floor).....	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>Young Professionals Lounge</b> (Vineyard/Yarmouth) .....	7:30–9:00 AM
The YP Committee will be hosting a Young Professionals Lounge Justin Skelly, Tighe & Bond	
<b>NEWEA Annual Business Meeting</b> (Regis).....	8:00–8:30 AM
Welcome and Opening Remarks: Raymond Willis, NEWEA President/Onsite Engineering, Inc. Presentation and vote on 2017 Slate of NEWEA Officers. <i>See description on page 46</i>	
<b>Technical Sessions 1–5</b> .....	8:30–10:30 AM
<i>See descriptions beginning on page 14</i>	
<b>Exhibit Hall Grand Opening</b> .....	10:30 AM
Paul P. Casey, Exhibits Committee Chair; Raymond Willis, NEWEA President Grand Opening will take place at the main entrances of both the 3rd and 4th floor exhibit areas.	
<b>Exhibits</b> (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. <i>See page 48 for directory of exhibitors.</i>	

### Monday, January 23 continued

<b>Innovation Pavilion</b> (3rd Floor Atrium).....	10:30 AM–4:30 PM
Come meet with the regions leading water-innovators at the NEWEA / NEWIN Innovation Pavilion. Sign up for a guided tour at: <a href="http://bit.ly/2eKeeAD">http://bit.ly/2eKeeAD</a>	
<b>Opening Session</b> (Salon E) .....	11:00 AM
<b>Professional Poster Board Displays/Session</b> (4th Floor).....	8:30 AM–4:30 PM
Coordinator: Lauren Hertel, Stantec	
Session with authors .....	1:30–3:30 PM
<b>Select Society of Sanitary Sludge Shovelers' Lunch</b> .....	Noon–2:00 PM
(Dartmouth/Exeter) by invitation – Charles Tyler, Influent Integrator	
<b>Technical Sessions 6–11</b> .....	2:00–4:30 PM
<i>See descriptions beginning on page 17</i>	
<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 24

<b>Registration</b> (4th Floor).....	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 47</i> .....	7:30 AM–4:00 PM
<b>NEWEA Presidents' Breakfast</b> (Champions) .....	8:00–9:00 AM
by invitation	
<b>Exhibits</b> (3rd and 4th Floor Exhibit Areas).....	8:00 AM–6:00 PM
<b>Innovation Pavilion</b> (3rd Floor Atrium).....	8:00 AM–4:00 PM
Sign up for a guided tour at: <a href="http://bit.ly/2eKeeAD">http://bit.ly/2eKeeAD</a>	
<b>Technical Sessions 12–16</b> .....	9:00–11:30 AM
<i>See descriptions beginning on page 20</i>	
<b>Exhibit Hall Break</b> .....	10:00–10:30 AM
<b>College Student Poster Board Competition</b> (4th Floor).....	9:00 AM–3:30 PM
Coordinator: Thomas Groves, NEIWPCC	
Session with authors .....	10:00–1:30 PM
<b>Operator's Reception</b> (Dartmouth/Exeter) .....	Noon–1:30 PM
Sponsored by: Connecticut Association of Water Pollution Control Authorities 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	
<b>Technical Sessions 17–23</b> .....	1:30–4:00 PM
<i>See descriptions beginning on page 23</i>	
<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 25

<b>Registration</b> (4th Floor).....	7:30 AM–2:00 PM
<b>Speakers' Breakfast</b> (Hyannis) .....	7:30–8:30 AM
<b>Exhibits</b> (3rd and 4th Floor Exhibit Areas) .....	8:00 AM–1:00 PM
<b>Technical Sessions 24–28</b> .....	8:30–11:00 AM
<i>See descriptions beginning on page 27</i>	
<b>Exhibit Hall Break</b> .....	9:30–10:00 AM
<b>Mr &amp; Mrs Fish Presentation</b> (3rd Floor Atrium) .....	9:30 AM & 11:30 AM
Ocean Food Chain (two performances)	
<b>NEWEA Awards Ceremony and Lunch</b> (Salon E).....	11:00 AM–1:00 PM
Ticket required	
<b>Exhibit Area Brunch</b> .....	11:00 AM–1:00 PM
The exhibit area brunch will be held in both the 3rd and 4th floor exhibit areas.	
<b>Technical Sessions 29–33</b> .....	1:00–3:00 PM
<i>See descriptions beginning on page 30</i>	
<b>Adjourn</b> .....	3:00 PM



## Opening Session

MONDAY, JANUARY 23  
11:00 AM

Moderator:  
Helen Gordon, NEWEA  
Program Committee,  
Woodard & Curran

Welcome:

Ray Willis, NEWEA President, Onsite Engineering

Keynote Speaker:

**Karyn Polito, Massachusetts Lieutenant Governor**

Karyn Polito was inaugurated on January 8th, 2015 as the 72nd Lieutenant Governor of the Commonwealth of Massachusetts.

Lieutenant Governor Polito began her public service in local government, serving as a member of the Shrewsbury Board of Selectmen. She then expanded her work to the state level, serving as a member of the State Lottery Commission. Then, in 2001, Polito ran for State Representative and won, proudly representing the residents of the 11th Worcester District (Shrewsbury and Westborough) for five terms.



Lieutenant Governor Polito understands the strain on local budgets, and worked relentlessly to secure increases in local aid, Chapter 70 school aid, Special Education aid, and Special Education transportation aid, as well as for local grant funding. Throughout her term as State Representative, Polito advocated for a safer Commonwealth by filing legislation in a number of key areas: cracking down on drunk drivers, requiring defibrillators in public schools, and strengthening the experience requirements for young drivers.

Polito has also worked hard to promote jobs and economic development, especially encouraging young people to explore careers in science and technology. She served on the Robert H. Goddard Council on Science, Technology, Engineering and Mathematics Education, and she hosted the annual "Women in Science" conference in Worcester. She is a board member of the Worcester Area Regional Chamber of Commerce, and the Corridor Nine Area Chamber of Commerce.

Lieutenant Governor Polito is a lifelong resident of Shrewsbury, where she owns and operates a commercial real estate development firm and lives with her husband and two young children.

Sessions 1–5  
Monday  
8:30–10:30 AM

## Session 1

**HOT TOPIC:  
Creative Responses  
to Water Management  
and Climate  
Change, Lessons  
from Scandinavia,  
Germany and the U.S.**

*Moderators:*  
Maureen Neville,  
CDM Smith  
Jaclyn Harrison, NEIWPCC

## Salon A/B

## Session 2

**Watershed  
Management**

*Moderators:*  
Phil Forzley, Fuss & O'Neill  
Jennifer Johnson,  
Nitsch Engineering, Inc.

## Suffolk

# Technical Sessions

### Panel 1

**Climate Change as a Catalyst for Design Change**

*Panel Moderator:*  
Donna Denio, Team Dynamics Boston

Ellen Watts, Architterra  
Kim Vermeer, Urban Habitat Initiatives, Inc.  
Isabel Kaubisch, Clarendon Hill Consulting  
Gretchen Rabinkin, BSA

### Panel 2

**Collaborative Governance Supporting Water Control  
and Reuse, Reducing Loop Holes and Red Tape**

*Panel Moderator:*  
Barbara Landau, Noble Wickersham & Heart

Julie Wormser, Boston Harbor Now  
Stephanie Krueel, VHB  
Wendi Goldsmith, Sustainability Consultant  
Steve Roy, Ramboll

**Urban Watershed Renewal with Public/Private  
Collaboration**

Jennifer Johnson, Nitsch Engineering  
Pallavi Mande, Charles River Watershed Association

**Mashpee's Unique Approach to Implementing its  
Wastewater Planning Effort**

J. Jefferson Gregg, GHD

**Use of a Nutrient Control Plan by the City of  
Rochester, New Hampshire to Develop a Long-term  
Plan to Reduce Nutrient Loads to Receiving Waters**

Daniel Bourdeau, Geosyntec Consultants  
John Storer, City of Rochester, NH  
Bill Arcieri, VHB

**Blazing a Path to Implement a "Hybrid" Approach to  
Reduce Excessive Nitrogen Discharges to the Town  
of Orleans' Ponds, Estuaries and Embayments**

Thomas Parece, AECOM  
George Meserve, Town of Orleans, MA  
Michael Domenica, Water Resources Association  
Betsy Shreve-Gibb, AECOM

Monday  
8:30–10:30 AM

## Session 3

**Stormwater 1:  
Successful  
Community Planning  
and Collaboration  
in Stormwater  
Management**

*Moderators:*  
Virginia Roach, CDM Smith  
Vinta Varghese, CH2M

## Provincetown

## Session 4

**Collection Systems 1:  
Make Construction  
Great Again**

*Moderators:*  
Mark Thompson,  
Kleinfelder  
Michael Armes, ADS  
Environmental Services

## Salon C/D

# Technical Sessions 1–5

**Duxbury/Kingston Bay Stormwater Mitigation—  
Completed after 11 Years**

Tom Pawlina, ATP Environmental  
Joe Grady, Town of Duxbury, MA  
Maureen Thomas, Town of Kingston, MA

**Planning and Developing Achievable Stormwater  
Water Quality Goals in New Hampshire**

Renee Bourdeau, Horsley Witten Group  
Robert Hartzel, Geosyntec Consultants

**A Green Possibility in Kansas City**

Courtney Eaton, Carollo Engineers  
Shawn Dent, Carollo Engineers

**Collaboration and Planning for Successful Drainage  
Management in New England Community**

Denise Cameron, Woodard & Curran  
John Livsey, Town of Lexington, MA

**Management and Response Action for Catastrophic  
Sewer Force Main Failures in Plymouth,  
Massachusetts**

Ziad Kary, Environmental Partners Group, Inc.  
Jonathan Beder, Town of Plymouth, MA

**Beach Community has its own "Point Break"—  
Hampton, NH—How a Thriving Beach Community  
Handled a Coastal Sewer Force Main Failure and  
Emergency Repair**

Michael Curry, Wright-Pierce  
Jennifer Hale, Town of Hampton, NH

**Pump Station Replacement Overcomes Obstacles to  
Address Reservoir Contamination Potential**

Kenneth Carlson, Woodard & Curran  
Bruce Thibodeau, Town of North Andover, MA  
Jason Kreil, Woodard & Curran  
Tim Willett, Town of North Andover, MA

**Warwick Sewer Authority Main Influent Sewer  
Rehabilitation**

Charles Gore, Brown and Caldwell  
Janine Burke-Wells, Warwick Sewer Authority

Monday  
8:30–10:30 AM

## Session 5

**Small Community:  
Design, Operation and  
Purchasing Issues for  
Small Communities**

*Moderators:*

Brandon Blanchard,  
Pare Corporation  
Michael Headd,  
Woodard & Curran

**Simmons**

## Technical Sessions 1–5

**Effects of Flow Fluctuations on Cape Cod Package  
Plants**

Christopher Hayward, WhiteWater

**Septage Receiving Upgrades: Regionally Serving  
Northern, NH**

Michael Theriault, Wright-Pierce

Jason Randall, Plymouth Village Water & Sewer District

**Village of Morristown NY Wastewater Treatment  
Plant Upgrade for Small Community**

Ashish Mehna, Premier Tech Aqua

**Case Study in Engineering, Procurement and  
Construction Management as an Alternative Project  
Delivery Method**

Jeffrey McDonald, Fuss & O'Neill

Douglas Brisee, Fuss & O'Neill



Sessions 6 – 11  
Monday  
2:00–4:30 PM

## Session 6

**Asset Management 1:  
Leveraging IT&A  
(A = Automation)**

*Moderators:*

James Barsanti,  
Town of Framingham, MA  
Geraldine Ciardelli,  
City of Nashua, NH

**Salon C/D**

## Technical Sessions

**Getting Started with Asset Management on the  
Cheap—Three Case Studies**

Daniel Roop, Tighe & Bond  
Janet Moonan, Tighe & Bond

**Securing SCADA—an Overview of Cybersecurity and  
Countermeasures**

Daniel Capano, Stamford, CT, WPCA  
Justin Finnigan, ARCADIS

**Town Wide SCADA Upgrade Strategy  
Ashley Dunn, Town of Framingham, MA**

Blake Lukis, Town of Framingham, MA  
Jon Grant, Woodard & Curran

**Asset Prioritization with GIS**

Michael Stein, Wright-Pierce  
Jeff Normandin, Wright-Pierce  
Greg Johnson, City of Burlington, VT

## Session 7

**EPA Panel Discussion:  
Make Your Comments  
Count—Examples of  
What Works**

*Moderators:*

Roger Janson, U.S. EPA  
Region 1 (retired)  
Sarah White, UniFirst Corp.

**Salon A/B**

**Make Your Comments Count—  
How to Comment Effectively on NPDES Permits**

EPA and states receive thousands of comments each year on draft NPDES permits. All receive careful consideration, but some are far more effective than others in winning revisions to the permit. How can a permittee or other interested party make its strongest possible case? A persuasive comment must be technically sound, but that is not enough; effective comments should also be rooted in the applicable regulatory framework so that agencies have the ability (or obligation) to address them. Many comments do not meet this test. Examples will be used to show how permittees can develop comments that squarely address the issues regulators must consider, and therefore have a greater likelihood of success.

Ken Moraff, U.S. EPA, Region 1 will discuss the comment process and lead a panel discussion on NPDES permits. Panelists from US EPA include: David Webster, Thelma Murphy, Damien Houlihan, Ellen Weitzler

**Exhibit Hall Break**  
3:00–3:30 PM



Monday  
2:00–4:30 PM

## Session 8

**CSO/Wet Weather  
Issues 1:  
CSO Success**

*Moderators:*

Kate Mignone, AECOM  
Charlie Smith, AECOM

## Provincetown

## Session 9

**Plant Operations 1:  
Cutting Edge Nitrogen**

*Moderators:*

Susan Guswa,  
Woodard & Curran  
Mickey Nowak, SUEZ

## Suffolk

**Exhibit Hall Break**  
3:00–3:30 PM

## Technical Sessions 6–11

### **Closing of the CAM004 CSO in Cambridge**

David VanHoven, MWH/Stantec  
David Kubiak, MWRA  
Jeremy Lane, MWRA  
Christine Clancy, Kleinfelder

### **Turning a Negative into a “Positive”—Negotiating a Consent Decree to Develop a Reasonable Endpoint**

James Drake, CDM Smith  
Robert Ward, City of Haverhill, MA  
Paul Jessel, City of Haverhill, MA

### **CSO Success—Overcoming Funding & Design Challenges in Madawaska, ME**

Robert Polys, Woodard & Curran

### **Fitchburg’s Largest Sewer Separation Project Provides Relief to the Nashua River—Conquers Urban City Challenges**

Michael Theriault, Wright-Pierce  
Anthony Maressa, City of Fitchburg, MA

### **Efficient Nutrient Removal Operating at Low Dissolved Oxygen**

Don Esping, Brown and Caldwell  
Dave Green, City of Rochester, NH

### **Membrane Aerated Biofilm Reactors—Oxygenated Fun with Less Carbon Cost**

Kelly Martin, Black & Veatch  
Sandeep Sathyamoorthy, Black & Veatch

### **Push the Limit of Enhanced Biological Phosphorus Removal Process for More Sustainable Phosphorus Removal and Recovery—A Mechanistic Investigation**

Yueyun Li, Northeastern University  
Annalisa Onnis-Hayden, Northeastern University  
April Gu, Northeastern University

### **A Novel Testing Approach for BNR Optimization in NYC**

Vera Gouchev, Hazen and Sawyer  
Sarah Galst, Hazen and Sawyer  
Michael Lynch, Hazen and Sawyer  
Robert Sharp, Hazen and Sawyer  
Keith Mahoney, New York City DEP

Monday  
2:00–4:30 PM

## Session 10

**Utility Management 1:  
Preparing for  
Millennials  
Management**

*Moderators:*

David Polcari, CDM Smith  
Fred McNeill  
City of Manchester, NH

## Simmons

## Session 11

**HOT TOPIC:  
All Things Green**

*Moderators:*

Robert Montenegro,  
Grundfos  
Charles Pike,  
Black & Veatch

## Wellesley

**Exhibit Hall Break**  
3:00–3:30 PM

## Technical Sessions 6–11

### **Succession Planning Initiatives at the South Essex Sewerage District**

Edward Leonard, Wright-Pierce  
David Michelsen, South Essex Sewerage District  
Richard Delacono, South Essex Sewerage District

### **Identifying and Preparing the Next Generation of Wastewater Treatment Facility Leaders— The Narragansett Bay Commission’s Field’s Point WWTF Experience**

Paul Nordstrom, Narragansett Bay Commission

### **EPA—Effective Utility Management Presentation**

James Horne, US EPA

### **Asset Management Lite for the Small User**

Christian Lund, Town of Groton, CT

### **Urban Stormwater Wetlands: Research into Form and Function**

Celina Balderas Guzman, MIT Center for Advanced  
Urbanism  
Alan Berger, MIT  
Heidi Nepf, MIT

### **ENVISIONING the LCA of a Wastewater Treatment Plant**

Anjana Kadava, Black & Veatch  
Sudhir Murthy, DC Water  
Andrew Shaw, Black & Veatch

### **Regulatory Compliance: Air Quality, Noise and Hazardous Materials Management**

Timothy Kucab, Tighe & Bond

### **Use of Porous Pavement Improves Water Quality and Reduces Beach Closures in Provincetown Harbor**

Sandra Tripp, GHD  
Richard Waldo, Town of Provincetown, MA  
Sara Greenberg, GHD

**Sessions 12–16**  
Tuesday  
9:00–11:30 AM

## **Session 12** **Operator Ingenuity**

*Moderators:*  
Kristen Lemasney,  
Wright-Pierce  
Tim Vadney, Wright-Pierce

**Suffolk**

## **Session 13** **Opportunities in International Development Work**

*Moderators:*  
Anastasia Rudenko, GHD  
Sahar Kunay,  
Green Mountain Pipe

**Simmons**

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

# Technical Sessions

**No Cost Upgrade to Enhance Phosphorus Removal**  
Leo Gaudette, Town of Merrimack, NH WTF

**SCADA Upgrade for the Stamford WPCA**  
Edward Abel, Stamford Water Pollution Control  
Authority, Stamford, CT

**Biological Phosphorus Removal Chemical Reduction**  
Ken Harwood, Town of Ayer, MA WWTP

**Innovative Primary Effluent Sampling and Better TN  
Removal Through SRT Management**  
Mike Carle, Town of Hampton, NH DPW

**In-house Digester Emptying and Septage Receiving  
Concept**  
Sean Greig, Town of Newmarket, NH

**Operator Rainfall into Water Security—Students  
Partnering with a Rural Guatemalan Community to  
Achieve Water Security**  
Evelyn Grainger, Worcester Polytechnic Institute  
Kerry Muenchow, Worcester Polytechnic Institute

**Water For Health in Fonfred, Haiti**  
Tim Loftus, Town of Webster, MA

**Panel Discussion**

Tuesday  
9:00–11:30 AM

## **Session 14** **Utility Management 2: Planning for the Worst —Doomsday Planning**

*Moderators:*  
Meg Goulet,  
Narragansett Bay  
Commission  
Donald Gallucci,  
Weston & Sampson

**Provincetown**

## **Session 15** **HOT TOPIC: Global Climate Change**

*Moderators:*  
Alan Slater,  
MassDEP (*retired*)  
Sean Osborne, OSD, LLC

**Salon A/B**

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

# Technical Sessions 12–16

**Incident Management Planning—How Does Your  
Utility Compare?**

Marian Long, Gradient Planning LLC

**The Taanstafl Principle—Secondary Impacts of Water  
Conservation Efforts**

Todd Lusk, Ramboll Environ  
Russell Parkman, Ramboll Environ

**Winnepesaukee River Basin Program Balanced  
Scorecard**

Sharon McMillin, NH Dept. of Environmental Services -  
Winnepesaukee River Basin Program

**Planning for Framingham's Future—An Integrated  
Approach to Wastewater Infrastructure Planning,  
Operation, and Management**

John Murphy, Stantec  
James Barsanti, Town of Framingham, MA

**Onwards from Climate Change Assessment to  
Implementation—City of Cambridge, MA**

Indrani Ghosh, Kleinfelder  
Kathy Watkins, City of Cambridge, MA

**Comprehensive Watershed Planning for Climate  
Change in Manchester-by-the-Sea, MA**

Gabrielle Belfit, Tighe & Bond  
Janet Moonan, Tighe & Bond  
Mary Reilly, Town of Manchester-by-the Sea, MA

**Integrated Hydraulic Modeling in the Alewife  
Brook—Developing the Right Tools for Climate  
Change Preparedness**

David Bedoya, Stantec  
Nicholas Stepina, Stantec

**Climate Change and Flood Risks to Municipal  
Wastewater Infrastructure**

Nasser Brahim, Kleinfelder

Tuesday  
9:00–11:30 AM

## Session 16

**Plant Operations 2:  
New England BNR  
All Stars in Nitrogen  
Removal**

*Moderators:*

Ben Levesque,  
Tighe & Bond  
Jon Hume, Wright-Pierce

## Salon C/D

## Technical Sessions 12–16

**Collaborative Ingenuity and Careful Operations  
Brings a Unique Fixed Film Process to BNR**

Paul Dombrowski, Woodard & Curran  
Roger Ignazio, Jr., Town of Canton, CT  
Cory Knick, Woodard & Curran

**Flying High at the Fairhaven, MA WWTF—The Ups  
and Downs of Conducting a Full-Scale Pilot Study for  
Nitrogen Reduction**

Meredith Zona, Stantec  
Linda Schick, Town of Fairhaven, MA  
Robert Backman, Evoqua

**I Want My MLE**

William McConnell, CDM Smith

**More Efficient Mechanisms of Biological Phosphorus  
Removal**

James Barnard, Black & Veatch  
Patrick Dunlap, Black & Veatch  
Mark Steichen, Black & Veatch



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

**Sessions 17 – 23**  
Tuesday  
1:30–4:00 PM

## Session 17

**Safety:  
Today's Safety Climate  
—Is Your Program  
Compliant?**

*Moderators:*

David Aucoin,  
Narragansett Bay  
Commission  
James Laliberte, NEIWPCC

## Suffolk

## Session 18

**Plant Operations 3:  
Case Studies for  
Construction through  
Operations**

*Moderators:*

Pamela Westgate,  
Kleinfelder  
Stephen Sloan,  
Portland Water District

## Salon A/B

## Technical Sessions

**What's New in Health and Safety**

David Horowitz, Tighe & Bond

**The Top 10!**

David Wright, Weston & Sampson

**Don't be Scared of Medium Voltage, Embrace the  
Revolution Enhancing Safety and Sustainability**

Jeff Miller, Schneider Electric  
Marc Buchwald, Schneider Electric

**But, Did You See the Moonwalking Bear?**

David Wright, Weston & Sampson

**Nashua WWTF Headworks Upgrade—Alleviation  
of Flooding through Equipment Automation and  
Modernization**

Andy Morrill, Wright-Pierce  
Noelle Osborne, City of Nashua, NH

**Wrestling with Storm Tides Again—How to Host a  
WWTF Mock Storm Drill**

Kathryn Roosa, Woodard & Curran  
Frank Cavaleri, Woodard & Curran

**20-Year Valve Replacement at the Deer Island  
Treatment Plant**

Ethan Wenger, MWRA  
Brian Kubaska, MWRA  
David Duest, MWRA  
Stephen Cullen, MWRA

**Phasing Approaches Yield Fast Compliance and  
Big Savings for Town of Middleborough for Nutrient  
Removal Upgrades**

Jon Hume, Wright-Pierce  
Ryan Bodnaruk, Wright-Pierce  
Todd Goldman, Town of Middleborough, MA

**Exhibit Hall Break**  
2:30–3:00 PM

Tuesday  
1:30–4:00 PM

## Session 19

### Stormwater 2: MS4 Communities and NPDES Compliance

#### Moderators:

Robert Robinson,  
City of Manchester, NH  
Emily Scerbo, Tighe & Bond

## Salon C/D

## Session 20

### Collection Systems 2: A Trenchless Revolution is Coming

#### Moderators:

Dennis Sullivan, National  
Water Main Cleaning Co.  
George Pendleton,  
Martinez Couch &  
Associates

## Simmons

## Technical Sessions 17–23

### Integrating Sewer System Evaluation Surveys and Illicit Discharge Detection and Elimination and Helping the Community Understand Why They Matter

Deirdre Hall, City of Quincy, MA  
Zach Henderson, Woodard & Curran

### Woburn Engineering Department's Efforts to Meet MS-4 Permit Requirements

Stephanie Collins, City of Woburn, MA  
John Corey, City of Woburn, MA

### Innovative BMP Crediting

Theresa McGovern, VHB

### Assessment of New General Stormwater Permit for Small MS4 Communities

John Hall, Hall & Associates  
Robert Lucic, Sheehan Phinney Bass & Green  
William Hall, Hall & Associates

### Design/Build for Trenchless Rehabilitation— Find and Fix: Lessons for Success

Jonathan Kunay, CDM Smith  
Nicholas Rystrom, City of Revere, MA

### Force Main Slip Lining—Critical Pipe Rehabilitation Under Interstate Highway

Jeffrey Hutton, Weston & Sampson  
David Elmer, Weston & Sampson

### Great Augusta Utility District (GAUD)—Trenchless Rehabilitation for the I-95 Interceptor Sewer

Shawn Ready, Ted Berry Company, Inc.  
Brian Tarbuck, GAUD  
Andy Begin, GAUD

### Horizontal Directional Drilling a Force Main in Franklin, MA—Challenges and Pitfalls, Benefits and Success

Amy Anderson, ARCADIS  
Laurie Ruzala, Town of Franklin MA  
Scott Haynes, ARCADIS

Exhibit Hall Break  
2:30–3:00 PM

Tuesday  
1:30–4:00 PM

## Session 21

### Residuals 1: Optimizing Energy from Biosolids

#### Moderators:

Eric Spargimino, CDM Smith  
Ned Beecher, NEBRA

## Wellesley

## Session 22

### HOT TOPIC: Planning for a Sustainable Future

#### Moderators:

Katelyn Biedron,  
CDM Smith  
Scott Lander, Retain-It

## Provincetown

Exhibit Hall Break  
2:30–3:00 PM

## Technical Sessions 17–23

### Thermal Hydrolysis in Texas

Gregory Roy, CDM Smith

### Direct Electricity Generation from Biosolids using a Hybrid Fermentation-Bioelectrical System

Caitlyn Butler, University of Massachusetts, Amherst  
Daniel Clasby, University of Massachusetts, Amherst  
Varun Srinivasan, University of Massachusetts, Amherst  
Cynthia Castro, University of Massachusetts, Amherst  
Sandeep Sathymoorthy, Black & Veatch

### Construction and Commissioning of a Merchant Food-Waste Digester in Southington CT

Brian Paganini, Quantum Biopower  
Michael Curtis, Quantum Biopower

### Bench Marking Digestion for Process Capacity Assessment and Improved Performance

Christopher Muller, Brown and Caldwell

### A Utility Business Reference Model for Sustainability

Michael Barnett, SmartCloud, Inc.

### Integrated Planning and the Triple Bottom Line

Nancy Kelley Beaton, CDM Smith  
Terrance Sullivan, City of Fall River, MA

### Utilizing Food Waste in its Path Towards Net Zero Energy Performance—Ithaca WWTP Case Study

Anastasia Rudenko, GHD  
Sara Greenberg, GHD  
Dan Ramer, Town of Ithaca, NY

### Infrastructure for a Livable Future

Julie Wood, Charles River Watershed Association  
Bruce Douglas, Natural Systems Utilities  
Nigel Pickering, Horsley Witten Group  
Robert Black, Industrial Economics



Tuesday  
1:30–4:00 PM

## Session 23

**Plant Operations 4:  
Operational Challenges  
and Solutions from  
Influent to Effluent**

*Moderators:*

Tom Hazlett,  
Woodard & Curran  
Ed Rushbrook,  
Process Analysis

## Salon E

## Technical Sessions 17–23

**Manchester Retools its Aeration System for the Next Generation**

Fred McNeill, City of Manchester, NH – EPD  
Bryanna Denis, Wright-Pierce

**Being a Good Neighbor!—Reducing Offsite Odors by Optimizing Odor Removal at Mattabassett WPCF**

Prashanth Emmanuel, Wright-Pierce

**Disinfection and Dilution Prevent Influence of Deer Island Treatment Plant Effluent on Indicator Bacteria Levels in Massachusetts Bay Outfall Receiving Waters**

David Wu, MWRA  
Daniel L. Codiga, MWRA

**Using Constant SRT as a Process Control Strategy**

Mickey Nowak, SUEZ  
Eric Wahlberg, Wastewater Technology Trainers  
Kevin Carney, SUEZ  
Ashley Warren, SUEZ



**Exhibit Hall Break**  
2:30–3:00 PM

**Sessions 24 – 28**  
Wednesday  
8:30–11:00 AM

## Session 24

**Asset Management 2:  
Focus on Assets**

*Moderators:*

Christian Lund,  
Town of Groton, CT  
Daniel Capano,  
Diversified Technical  
Services

## Salon C/D

## Technical Sessions

**Taking it to the Next Level: Predictive Models Based on Over 500 Miles of Force Main Condition Assessment**

David Smith, Pure Technologies U.S. Inc.  
Jeff Zdrojewski, Pure Technologies U.S. Inc.

**An Uncomplicated, Effective Approach to the Implementation of Asset Management in the Creation of a 20-year Capital Improvement Plan for 36 Pump Stations**

Kevin Olson, Wright-Pierce  
Marc Moccio, Wright-Pierce  
Robert Ward, City of Haverhill, MA  
Paul Jessel, City of Haverhill, MA

**Applying the NACCS Framework in New Jersey—A Case Study**

Lauren Klonsky, CDM Smith  
Frances Bui, CDM Smith  
Donald Cresitello, USACE  
JB Smith, USACE

**Asset Management for MS4 Compliance**

Lauren Caputo, VHB  
Annie Bastoni, MassDOT  
Theresa McGovern, VHB

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

Wednesday  
8:30–11:00 AM

## Session 25

### Walking the Tighrope for Metals and Phosphorus Removal

#### Moderators:

Nicholas Tooker,  
Northeastern University  
David Press, Tighe & Bond

## Provincetown

## Technical Sessions 24–28

### Breathing New Life into Existing Assets: Full-Scale Performance Results for Cloth Media Filters to Meet 0.1 mg/L TP

Alexandra Doody, CDM Smith  
Maureen Neville, CDM Smith  
Elizabeth Taglieri, Charles River Pollution Control District  
Kristen Mucciarone, Charles River Pollution Control District

### Cheshire's Spin for Achieving Effluent TP of Less Than 0.1 mg/L with Disc Filtration

Matt Formica, AECOM  
Dennis Dievert, Town of Cheshire, CT  
Jon Pearson, AECOM  
Walt Gancarz, Town of Cheshire, CT

### Selecting the Optimal Coagulant to Achieve Both Low-Level Phosphorus and Metal Limits at the Upper Blackstone

Alexandra Bowen, CDM Smith  
Erik Grotton, Blueleaf, Inc.  
Karla Sangrey, Upper Blackstone Water Pollution  
Abatement District

### Removing Metals from Wastewater: Lessons Learned from Recent Case Studies

Austin Weidner, Tighe & Bond  
Fred Mueller, Tighe & Bond  
Ian Catlow, Tighe & Bond

### Biosolids Stabilization in Concord, New Hampshire— So Where Do We Go From Here?

Chris Dwinal, Wright-Pierce  
Daniel Driscoll, City of Concord, NH

### Recycling/Solid Waste Impact of Orthophosphate Concentrations on the Dewatering Process—

**A Summary from Phosphorus Recovery Tests**  
Gerhard Forstner, CNP Technology Water and Biosolids  
Hiroko Yoshida, Centrisys Corporation  
Zhongtian Li, CNP Technology Water and Biosolids

### Innovative Water Treatment Technology Reduces Struvite and Lowers Polymer Use

Douglas Miller, Douglas L. Miller Consulting, LLC  
James Morris, James W. Morris & Associates, Inc.

### Studying and Pilot Testing Biosolids Thickening Alternatives at NYC's Largest WWTP

Bryan Atieh, Hazen and Sawyer  
Paul Saurer, Hazen and Sawyer  
James Mueller, New York City DEP

## Session 26

### Residuals 2: Biosolids Optimization Technologies

#### Moderators:

Natalie Sierra,  
Brown and Caldwell  
Elaine Sistare, CDM Smith

## Salon A/B

Exhibit Hall Break  
9:30–10:00 AM

Wednesday  
8:30–11:00 AM

## Session 27

### Corrosion: Lessons in Solving Corrosion Issues

#### Moderators:

George Pendleton,  
Martinez Couch &  
Associates  
Charles Labbe,  
Warwick Sewer Authority

## Suffolk

## Session 28

### CSO/Wet Weather Issues 2: Wet Weather Technology

#### Moderators:

Jeff Cantwell,  
Flow Assessment Services  
Chuck Wilson,  
Hazen and Sawyer

## Wellesley

Exhibit Hall Break  
9:30–10:00 AM

## Technical Sessions 24–28

### Corrosion Basics for Concrete and Metals in Wastewater Applications

Randy Nixon, Corrosion Probe, Inc.  
David Crowe, Corrosion Probe, Inc.

### Key Principals for Success When Lining Concrete Headspaces to Prevent Biogenic Sulfide Corrosion

Larry Mitkus, Righter Group, Inc.  
David Pope, Righter Group, Inc.

### Monitoring and Upgrading Cathodic Protection Systems for CAN Type Pump Stations

Arthur Enderle, Town of East Windsor, CT  
Edward Alibozek, Town of East Windsor, CT  
Randy Nixon, Corrosion Probe, Inc.

### Failure Analysis Fundamentals for Fiberglass Reinforced Plastic (FRP) Materials in Wastewater Service

Gary Arthur, Fiberglass Institute  
Kevin Krawiec, Corrosion Probe, Inc.

### Next Generation Hydraulic Modeling— Forecasting and Real Time Decision Making

Nicholas Anderson, MWH Global

### Utilizing Two Trenchless Rehabilitation Technologies to Reduce Wet Weather Flows in the Bear Brook Watershed—Saco Maine Case Study

Matt Timberlake, Ted Berry Company, Inc.  
Shawn Ready, Ted Berry Company, Inc.  
Howard Carter, City of Saco, ME

### If You Can't Go Green, Go Lean!

Kristel Zaman, Xylem  
Jim Fischer, Xylem

### Solutions to Pipeline Construction Challenges

Robert Robinson, City of Manchester, NH – EPD  
Robert McCoy, Kleinfelder

**Sessions 29 – 33**  
Wednesday  
1:00–3:00 PM

## **Session 29** **Collection Systems 3: I'm With Innovation**

*Moderators:*  
Peter Garvey, Dewberry  
Ashley Dunn,  
Town of Framingham, MA

### **Provincetown**

## **Session 30** **Utility Management 3: Utility Projects Management— What Works**

*Moderators:*  
Gary Zrelak,  
Greater New Haven WPCA  
Richard Rodgers,  
Town of Danvers, MA

### **Salon A/B**

# Technical Sessions

## **Detect Growing Blockages, Monitor CSOs and Conduct Micro-metering with an Innovative Parabolic Depth Sensor**

Patrick Stevens, ADS Environmental Services  
Michael Armes, ADS Environmental Services

## **Educational Outreach—Kitchen BMP at Local High Schools and Testing of a Novel Protein-based Degreaser**

Patrick Antle, Tufts University  
Albert Robbat, Tufts University

## **The Main Interceptor Project—An Engineered Approach to Innovative Pipeline Rehabilitation**

Jonnas Jacques, Kleinfelder  
Jason Lavoie, Kleinfelder  
Eric Morse, MWH/Stantec

## **The Design and Constructability Aspect of Private Inflow Removal—Creating and Executing a Private Inflow Removal Contract in a Coastal Community**

Sean McFee, CDM Smith  
Marina Fernandes, CDM Smith

## **The Role and Value of the Owner's Project Manager on Treatment Plant and Utility Projects**

Paul Millett, Environmental Partners Group, Inc.

## **Step One of Integrated Planning: What Can You Afford?—A Case Study from Upper Blackstone**

David VanHoven, MWH/Stantec  
Karla Sangrey, Upper Blackstone Water Pollution  
Abatement District  
Matt Labovites, City of Worcester, MA

## **Harvesting Operational Inefficiency: Strategies for Performance Contracting**

Peter Thomson, Black & Veatch  
Mike Hanna, Black & Veatch  
Roland Jezek, Black & Veatch

## **Sanford Sewerage District—10 Years Later**

Lindsey Shields, Wright-Pierce  
Andre Brousseau, Sanford Sewerage District  
Ed Leonard, Wright-Pierce

Wednesday  
1:00–3:00 PM

## **Session 31**

### **Stormwater 3: Stormwater Management Innovative Projects and Ideas**

*Moderators:*  
Vonnie Reis,  
Town of Framingham, MA  
Glenn Haas,  
Brown and Caldwell

### **Salon C/D**

## **Session 32**

### **Water Reuse: Growing Sustainable and Resilient Businesses and Communities with Water Reuse**

*Moderators:*  
Meredith Zona, Stantec  
Ed Whatley, VHB

### **Suffolk**

# Technical Sessions 29–33

## **Continuous Monitoring and Adaptive Control (CMAC) Retrofits—Maximize the Value of Your Stormwater Infrastructure Assets**

Dave Wheeler, City of South Burlington, VT  
Tom DiPietro, City of South Burlington, VT  
Viktor Hlas, OptiRTC, Inc.

## **Decatur WAY Green Alley**

Michael Dodson, CDM Smith  
Mike Stuer, Lowell Regional Wastewater Utility  
Mark Young, Lowell Regional Wastewater Utility  
Daniel Bisson, CDM Smith

## **Assessing the Impacts of a Biofiltration Best Management Practice (BMP) and Associated Groundwater Flow on Water Quality**

Paul Mathisen, Worcester Polytechnic Institute  
Jacquelyn Tupper, Worcester Polytechnic Institute

## **Innovative Stormwater Treatment for Tavares, Florida**

Brad Hayes, City of Tavares, FL  
Scott Shannon, ARCADIS

## **From Wine to Vine—Water Reuse at Ridge Vineyards**

Pete Annunziato, bioprocessH2O, LLC  
Emily Massed, bioprocessH2O, LLC

## **Achieving Sustainability and Resiliency in Arid Inland Communities Through Water Reuse**

Vijay Sundaram, Stantec

## **Evaluating Emerging Contaminants Biodegradation—Are Nitrifiers Doing the Work?**

Amy Hunter, Tufts University  
Sandeep Sathyamoorthy, Black & Veatch  
C. Andrew Ramsburg, Tufts University  
Catherine Hoar, Columbia University  
Kartik Chandran, Columbia University

## **Disruptive Tech—Beyond Net Zero Energy Onsite Water Reuse**

Zachary Gallagher, Natural Systems Utilities LLC  
Bruce Douglas, Natural Systems Utilities LLC

Wednesday  
1:00–3:00 PM

## Session 33

**Energy:  
Energy Saving Pumps  
and More**

*Moderators:*

Sharon Rivard, NH DES  
Tom Schwartz,  
Woodard & Curran

**Wellesley**

## Technical Sessions 29–33

### **Perfecting Your Pumps—Pump System Optimization Through Interior Coatings**

Jessica Dzwonkoski, JKMuir, LLC  
Jen Muir, JKMuir, LLC  
Carina Hart, JKMuir, LLC

### **Variable Frequency Motor Control—30 Years of Lessons Learned**

Marc Buchwald, Schneider Electric  
Jeff Miller, Schneider Electric

### **Co-Gen Without Gas Scrubbing**

Matt Williams, WesTech Engineering Inc.  
Brian Mitchell, WesTech Engineering Inc.  
Rachelle Tippets, WesTech Engineering Inc.

### **Green Energy and Efficiency Improvements at a Wastewater Treatment Plant in Western MA**

Pamela Westgate, Kleinfelder  
Alan Wells, Kleinfelder  
Carl Shaw, City of Pittsfield, MA



Monday  
10:30 AM – 4:30 PM

Tuesday  
8:00 AM – 4:00 PM

## 3rd Floor Atrium



## NEWEA/NEWIN Innovation Pavilion

The 2017 Water Innovation Pavilion is coordinated in partnership between New England Water Environment Association (NEWEA) and the New England Water Innovation Network (NEWIN). Throughout the US there are a number of cities that identify themselves as Water-Clusters. Our area of the Northeastern US is more than one city and NEWIN exists to highlight our collective strengths in water-innovation. NEWIN represent a water-innovation super-cluster with over 298 companies in the community and representation throughout New England. NEWIN drives local innovation in our region and we have partnered with them to highlight leading water-innovators and innovations across three primary segments of the water-sector. These three areas include: Nitrogen Remediation Technologies, Water-IT, Sensors & Analytics, and Recycling, Reuse and Recover technologies. NEWIN has gathered an amazing selection of the regions leading water-innovations. Come visit the NEWIN & NEWEA Innovation Pavilion to meet with the innovators, learn about their innovation and to be entered in to a prize-draw for the Hydrao smart-IOT shower head. Learn more about Hydrao at: <http://bit.ly/2eKXe0d>

### **GUIDED TOURS OF THE INNOVATION PAVILION**

Join our guided tour and you will be entered to win a smart-water / IOT enabled, Hydrao water-conservation shower head from Smart & Blue.

Marcus Oliver Gay, Executive Director of NEWIN will lead a personal guided tour of the Innovation Pavilion on both Monday and Tuesday at select times.

Sign up for a guided tour at: <http://bit.ly/2eKeeAD>



[illegible]

Monday  
8:30 AM – 4:30 PM

Session with authors  
1:30 – 3:30 PM

#### 4th Floor

## Poster Board Displays

### **Development of a Novel Digester—Co-Generation Approach for a Food Waste Digester**

Michael Curtis, Quantum Biopower

### **Success—New England's First Linear Motion Sludge**

Denise Descheneau, Stantec

### **Ocean Outfall Design to Mitigate Nutrient Loading Of Stressed Watersheds**

Marc Drainville, GHD

### **Less Mixing Yields Big Savings in BNR Selector Basins**

Jim Fischer, Xylem

### **Development of Nutrient-Rich Crystals from Wastewater for the Fortification of Compost**

Aliza Furneaux, Lafayette College

### **Evaluating Non-Traditional Nitrogen Control Measures**

Mike Giggey, Wright-Pierce

### **Variations in Hydrogen Sulfide Concentrations in a Wastewater Pumping Station with an Odor Control System**

Mohamed Hamoda, Consultant

### **Septic Tank Replacement Using a Low-Pressure Sewer System**

Clark Henry, Environment One Corporation

### **To Locate or Not to Locate is a Question of Mapping**

Nick Holly, PelicanCorp

### **CMAR Delivery Process**

Mike Leonard, PC Construction Company

### **Improving Nutrient Removal of Existing Wastewater Facilities Using Cyclical Aeration & Chemical Addition**

Rachel Schnabel, Fuss & O'Neill

Stephanie Baldino, Town of Plainfield, CT

### **Pre-Installation Detection and Correction of New VFD Motor Resonance Issues on Water Treatment Pumps at City of Cambridge, MA**

Eric Olson, Mechanical Solutions, Inc.

### **Taking Inventory of Municipal Facilities for Stormwater Management: SWPPPs—MS4 vs. MSGP**

Rosalie Starvish, GZA

### **Bowling Green Municipal Utilities Sludge Dewatering Process Control Improvements**

Amy Pollack, HACH

### **Life Cycle Costs of Wastewater Pumping Systems**

Ian Belczyk, Xylem, Inc.

Tuesday  
9:00 AM – 3:30 PM

Session with authors  
10:00 AM – 1:30 PM

#### 4th Floor

*Coordinator:*

Thomas Groves, NEIWPC

## Undergraduate Student Poster Board Competition

**The Lexington Storm Water Monitoring Project**  
Benjamin Aho, University of Massachusetts/Lowell

**The Impacts of Living Learning Machine Configuration on Nitrogen and Phosphorous Concentrations of Wastewater for Reuse**  
Lindsey Carver, Northeastern University

**Phosphorus Removal Options for Wastewater Lagoon Systems**  
Jeffrey Lewis, University of Vermont

**Water Quality Assessment of the Input of a Water Pollution Control Facility on the Hockanum River in Vernon, Connecticut**  
Alex Manos, Central Connecticut State University

**State Point Analysis for the Springfield Regional Wastewater Treatment Facility**  
Greg Roto, University of Hartford

**The Effect of Pharmaceuticals and Personal Care Products Within Urine Composting Applications**  
Christa Spedding, University of Massachusetts/Amherst

**Storming and Performing: Real-time Nitrogen and TSS Removal in an Active Control Wet Pond**  
Micah Strauss, University of Massachusetts/Lowell

## Graduate Poster Board Displays

**Long-term Dissolution Behavior of CdSe/ZnS Quantum Dots in Dark**  
Pooya Paydary, Northeastern University

**Development and Standardization of Ceramic Water Filter Clays Selection Criteria**  
Yichen Zhang, University of Rhode Island

# Moderators

SESSION	MODERATOR	AFFILIATION
1	Maureen Neville	CDM Smith
1	Jaclyn Harrison	NEIWPCC
2	Philip Forzley	Fuss & O'Neill
2	Jennifer Johnson	Nitsch Engineering, Inc.
3	Virginia Roach	CDM Smith
3	Vinta Varghese	CH2M
4	Mark Thompson	Kleinfelder
4	Michael Armes	ADS Environmental Services
5	Brandon Blanchard	Pare Corporation
5	Michael Headd	Woodard & Curran
6	James Barsanti	Town of Framingham, MA
6	Geri Ciardelli	City of Nashua, NH
7	Roger Janson	US EPA Region 1 (retired)
7	Sarah White	UniFirst Corp.
8	Kate Mignone	AECOM
8	Charlie Smith	AECOM
9	Susan Guswa	Woodard & Curran
9	Mickey Nowak	SUEZ
10	David Polcari	CDM Smith
10	Fred McNeill	City of Manchester, NH
11	Robert Montenegro	Grundfos
11	Charles Pike	Black & Veach
12	Kristen Lemasney	Wright-Pierce
12	Tim Vadney	Wright-Pierce
13	Anastasia Rudenko	GHD
13	Sahar Kunay	Green Mountain Pipe
14	Meg Goulet	Narragansett Bay Commission
14	Donald Gallucci	Weston & Sampson
15	Alan Slater	MassDEP (retired)
15	Sean Osborne	OSD, LLC
16	Ben Levesque	Tighe & Bond
16	Jon Hume	Wright-Pierce
17	David Aucoin	Narragansett Bay Commission
17	James Laliberte	NEIWPCC
18	Pamela Westgate	Kleinfelder
18	Stephen Sloan	Portland Water District
19	Robert Robinson	City of Manchester, NH
19	Emily Scerbo	Tighe & Bond
20	Dennis Sullivan	National Water Main Cleaning Co.
20	George Pendleton	Martinez Couch & Associates
21	Eric Spargimino	CDM Smith
21	Ned Beecher	NEBRA

SESSION	MODERATOR	AFFILIATION
22	Kate Biedron	CDM Smith
22	Scott Lander	Retain-It
23	Tom Hazlett	Woodard & Curran
23	Ed Rushbrook	Process Analysis
24	Chris Lund	Town of Groton, CT
24	Daniel Capano	Diversified Technical Services
25	Nick Tooker	Northeastern University
25	David Press	Tighe & Bond
26	Natalie Sierra	Brown and Caldwell
26	Elaine Sistare	CDM Smith
27	George Pendleton	Martinez Couch & Associates
27	Charles Labbe	Warwick Sewer Authority
28	Jeff Cantwell	Flow Assessment Services
28	Chuck Wilson	Hazen and Sawyer
29	Peter Garvey	Dewberry
29	Ashley Dunn	Town of Framingham, MA
30	Gary Zrelak	Greater New Haven WPCA
30	Richard Rodgers	Town of Danvers, MA
31	Vonnie Reis	Town of Framingham, MA
31	Glenn Haas	Brown and Caldwell
32	Meredith Zona	Stantec
32	Ed Whatley	VHB
33	Sharon Rivard	NH DES
33	Tom Schwartz	Woodard & Curran

# Presenters

PRESENTER	AFFILIATION	SESSION NO.
Edward Alibozek .....	Town of East Windsor, CT .....	27
Amy Anderson .....	ARCADIS .....	20
Nicholas Anderson .....	Stantec .....	28
Peter Annunziato .....	bioprocessH2O, LLC .....	32
Patrick Antle .....	Tufts University .....	29
Michael Armes .....	ADS Environmental Services .....	29
Gary Arthur .....	Fiberglass Institute .....	27
Bryan Atieh .....	Hazen and Sawyer .....	26
Robert Backman .....	Evoqua .....	16
Celina Balderas Guzman .....	Massachusetts Institute of Technology .....	11
James Barnard .....	Black & Veatch .....	16
Michael Barnett .....	SmartCloud, Inc. ....	22
James Barsanti .....	Town of Framingham, MA .....	14
Annie Bastoni .....	MassDOT .....	24
Nancy Kelley Beaton .....	CDM Smith .....	22
Jonathan Beder .....	Town of Plymouth, MA .....	4
David Bedoya .....	Stantec .....	15
Andy Begin .....	Greater Augusta Utility District .....	20
Gabrielle Belfit .....	Tighe & Bond .....	15
Alan Berger .....	Massachusetts Institute of Technology .....	11
Ryan Bodnaruk .....	Wright-Pierce .....	18
Daniel Bourdeau .....	Geosyntec Consultants .....	3
Renee Bourdeau .....	Horsley Witten Group .....	2
Alexandra Bowen .....	CDM Smith .....	25
Nasser Brahim .....	Kleinfelder .....	15
Douglas Brisee .....	Fuss & O'Neill .....	5
André Brousseau .....	Sanford Sewerage District .....	30
Marc Buchwald .....	Schneider Electric .....	17, 33
Frances Bui .....	CDM Smith .....	24
Janine Burke-Wells .....	Warwick Sewer Authority .....	4
Caitlyn Butler .....	University of Massachusetts/Amherst .....	21
Denise Cameron .....	Woodard & Curran .....	3
Daniel Capano .....	Stamford, CT WPCA .....	6
Lauren Caputo .....	VHB .....	24
Kenneth Carlson .....	Woodard & Curran .....	4
Kevin Carney .....	SUEZ .....	23
Howard Carter .....	City of Saco, ME .....	28
Ian Catlow .....	Tighe & Bond .....	25
Frank Cavaleri .....	Woodard & Curran .....	18
Daniel Clasby .....	University of Massachusetts/Amherst .....	21

PRESENTER	AFFILIATION	SESSION NO.
Daniel Codiga .....	MWRA .....	23
Stephanie Collins .....	City of Woburn, MA .....	19
John Corey .....	City of Woburn, MA .....	19
Donald Cresitello .....	USACE .....	24
David Crowe .....	Corrosion Probe, Inc. ....	27
Michael Curry .....	Wright-Pierce .....	4
Michael Curtis .....	Quantum Biopower .....	21
Richard Delacono .....	South Essex Sewerage District .....	10
Donna Denio .....	Team Dynamics Boston .....	1
Bryanna Denis .....	Wright-Pierce .....	23
Shawn Dent .....	Carollo Engineers .....	3
Dennis Dievert .....	Town of Cheshire, CT .....	25
Thomas DiPietro .....	City of South Burlington, VT .....	31
Michael Dodson .....	CDM Smith .....	31
Paul Dombrowski .....	Woodard & Curran .....	16
Michael Domenica .....	Water Resources Association .....	2
Alexandra Doody .....	CDM Smith .....	25
Bruce Douglas .....	Natural Systems Utilities LLC .....	22, 32
James Drake .....	CDM Smith .....	8
Daniel Driscoll .....	City of Concord, NH .....	26
David Duest .....	MWRA .....	18
Patrick Dunlap .....	Black & Veatch .....	16
Ashley Dunn .....	Town of Framingham, MA .....	6
Chris Dwinal .....	Wright-Pierce .....	26
Jessica Dzwonkoski .....	JK Muir LLC .....	33
Courtney Eaton .....	Carollo Engineers .....	3
David Elmer .....	Weston & Sampson .....	20
Prashanth Emmanuel .....	Wright-Pierce .....	23
Arthur Enderle .....	Town of East Windsor, CT .....	27
Don Esping .....	Brown and Caldwell .....	9
Marina Fernandes .....	CDM Smith .....	29
Justin Finnigan .....	ARCADIS .....	6
Jim Fischer .....	Xylem .....	28
Matt Formica .....	AECOM .....	25
Gerhard Forstner .....	CNP Technology Water and Biosolids .....	26
Zachary Gallagher .....	Natural Systems Utilities LLC .....	32
Sarah Galst .....	Hazen and Sawyer .....	9
Indrani Ghosh .....	Kleinfelder .....	15
Wendi Goldsmith .....	Consultant .....	1
Charles Gore .....	Brown and Caldwell .....	4
Vera Gouchev .....	Hazen and Sawyer .....	9
Joe Grady .....	Town of Duxbury, MA .....	3
Evelyn Grainger .....	Worcester Polytechnic Institute .....	13
Jon Grant .....	Woodard & Curran .....	6



<b>PRESENTER</b>	<b>AFFILIATION</b>	<b>SESSION NO.</b>
David Green.....	City of Rochester, NH.....	9
Sara Greenberg.....	GHD.....	11, 22
J. Jefferson Gregg.....	GHD.....	2
Erik Grotton.....	Blueleaf.....	25
Jennifer Hale.....	Town of Hampton, NH.....	4
Deirdre Hall.....	City of Quincy, MA.....	19
John Hall.....	Hall & Associates.....	19
William Hall.....	Hall & Associates.....	19
Mike Hanna.....	Black & Veatch.....	30
Carina Hart.....	JK Muir LLC.....	33
Robert Hartzel.....	Geosyntec Consultants.....	3
Brad Hayes.....	City of Tavares, FL.....	31
Scott Haynes.....	ARCADIS.....	20
Christopher Hayward.....	WhiteWater.....	5
Zachary Henderson.....	Woodard & Curran.....	19
Viktor Hlas.....	OptiRTC.....	31
James Horne.....	US EPA.....	10
David Horowitz.....	Tighe & Bond.....	17
Damien Houlihan.....	US EPA Region 1.....	7
Jon Hume.....	Wright-Pierce.....	18
Amy Hunter.....	Tufts University.....	32
Jeffrey Hutton.....	Weston & Sampson.....	20
Roger Ignazio.....	Town of Canton, CT.....	16
Jonnas Jacques.....	Kleinfelder.....	29
Paul Jessel.....	City of Haverhill, MA.....	8
Roland Jezek.....	Black & Veatch.....	30
Greg Johnson.....	City of Burlington, VT.....	6
Jennifer Johnson.....	Nitsch Engineering.....	2
Anjana Kadava.....	Black & Veatch.....	11
Ziad Kary.....	Environmental Partners Group, Inc.....	4
Isabel Kaubisch.....	Clarendon Hill Consulting.....	1
Lauren Klonsky.....	CDM Smith.....	24
Cory Knick.....	Woodard & Curran.....	16
Kevin Krawiec.....	Corrosion Probe, Inc.....	27
Jason Kreill.....	Woodard & Curran.....	4
Stephanie Kruel.....	VHB.....	1
Brian Kubaska.....	MWRA.....	18
David Kubiak.....	MWRA.....	8
Timothy Kucab.....	Tighe & Bond.....	11
Jonathan Kunay.....	CDM Smith.....	20
Matthew Labovites.....	City of Worcester, MA.....	30
Barbara Landau.....	Noble, Wickersham & Heart.....	1
Jeremy Lane.....	MWRA.....	8
Jason Lavoie.....	Kleinfelder.....	29

<b>PRESENTER</b>	<b>AFFILIATION</b>	<b>SESSION NO.</b>
Edward Leonard.....	Wright-Pierce.....	10, 30
Yueyun Li.....	Northeastern University.....	9
Zhongtian Li.....	CNP Technology Water and Biosolids.....	26
John Livsey.....	Town of Lexington, MA.....	3
Timothy Loftus.....	Town of Webster, MA.....	13
Marian Long.....	Gradient Planning LLC.....	14
Robert Lucic.....	Sheehan Phinney Bass & Green.....	19
Blake Lukis.....	Town of Framingham, MA.....	6
Christian Lund.....	Town of Groton, CT.....	10
Todd Lusk.....	Ramboll Environ.....	14
Michael Lynch.....	Hazen and Sawyer.....	9
Pallavi Mande.....	Charles River Watershed Association.....	2
Anthony Maressa.....	City of Fitchburg, MA.....	8
Kelly Martin.....	Black & Veatch.....	9
Emily Massed.....	bioprocessH2O, LLC.....	32
Paul Mathisen.....	Worcester Polytechnic Institute.....	31
William McConnell.....	CDM Smith.....	16
Robert McCoy.....	Kleinfelder.....	28
Jeffrey McDonald.....	Fuss & O'Neill.....	5
Sean McFee.....	CDM Smith.....	29
Theresa McGovern.....	VHB.....	19
Sharon McMillin.....	NH DES - Winnepesaukee River Basin Program.....	14
Fred McNeill.....	City of Manchester, NH.....	23
Ashish Mehna.....	Premier Tech Aqua.....	5
George Meservey.....	Town of Orleans, MA.....	2
David Michelsen.....	South Essex Sewerage District.....	10
Douglas Miller.....	Douglas L Miller Consulting, LLC.....	26
Jeff Miller.....	Schneider Electric.....	17, 33
Paul Millett.....	Environmental Partners Group, Inc.....	30
Brian Mitchell.....	WesTech Engineering Inc.....	33
Larry Mitkus.....	Righter Group, Inc.....	27
Marc Moccio.....	Wright-Pierce.....	24
Janet Moonan.....	Tighe & Bond.....	6, 15
Ken Moraff.....	U.S. EPA, New England Region.....	7
Andy Morrill.....	Wright-Pierce.....	18
James Morris.....	James W. Morris & Associates.....	26
Eric Morse.....	MWH/Stantec.....	29
Fred Mueller.....	Tighe & Bond.....	25
James Mueller.....	New York City DEP.....	26
Kerry Muenchow.....	Worcester Polytechnic Institute.....	13
Jennifer Muir.....	JK Muir LLC.....	33
Christopher Muller.....	Brown and Caldwell.....	21
John Murphy.....	Stantec.....	14
Thelma Murphy.....	US EPA Region 1.....	7

PRESENTER	AFFILIATION	SESSION NO.
Sudhir Murthy .....	DC Water .....	11
Heidi Nepf .....	Massachusetts Institute of Technology .....	11
Maureen Neville .....	CDM Smith .....	25
Randy Nixon .....	Corrosion Probe, Inc. ....	27
Jeff Normandin .....	Wright-Pierce .....	6
Mickey Nowak .....	SUEZ .....	23
Kevin Olson .....	Wright-Pierce .....	24
Annalisa Onnis-Hayden .....	Northeastern University .....	9
Noelle Osborne .....	City of Nashua, NH .....	18
Brian Paganini .....	Quantum Biopower .....	21
Thomas Parece .....	AECOM .....	2
Russell Parkman .....	Ramboll Environ .....	14
Tom Pawlina .....	ATP Environmental .....	3
Jon Pearson .....	AECOM .....	25
Nigel Pickering .....	Horsley Witten Group .....	22
Robert Polys .....	Woodard & Curran .....	8
David Pope .....	Righter Group, Inc. ....	27
Gretchen Rabinkin .....	BSA .....	1
Dan Ramer .....	Town of Ithaca, NY .....	22
C. Andrew Ramsburg .....	Tufts University .....	32
Jason Randall .....	Plymouth Village Water & Sewer District .....	5
Shawn Ready .....	Ted Berry Company, Inc. ....	20, 28
Mary Reilly .....	Town of Manchester-by-the-Sea, MA .....	15
Albert Robbat .....	Tufts University .....	29
Robert Robinson .....	City of Manchester, NH .....	28
Daniel Roop .....	Tighe & Bond .....	6
Kathryn Roosa .....	Woodard & Curran .....	18
Gregory Roy .....	CDM Smith .....	21
Steve Roy .....	Ramboll .....	1
Anastasia Rudenko .....	GHD .....	22
Laurie Ruszala .....	Town of Franklin, MA .....	20
Nicholas Rystrom .....	City of Revere, MA .....	20
Karla Sangrey .....	Upper Blackstone WPAD .....	30
Sandeep Sathyamoorthy .....	Black & Veatch .....	9, 32
Paul Saurer .....	Hazen and Sawyer .....	26
Linda Schick .....	Town of Fairhaven, MA .....	16
Scott Shannon .....	ARCADIS .....	31
Robert Sharp .....	Hazen and Sawyer .....	9
Carl Shaw .....	City of Pittsfield, MA .....	33
Lindsey Shields .....	Wright-Pierce .....	30
David Smith .....	Pure Technologies U.S. Inc. ....	24
Ryan Spanton .....	WesTech Engineering Inc .....	33
Varun Srinivasan .....	University of Massachusetts/Amherst .....	21
Mark Steichen .....	Black & Veatch .....	16

PRESENTER	AFFILIATION	SESSION NO.
Michael Stein .....	Wright-Pierce .....	6
Nicholas Stepina .....	Stantec .....	15
Patrick Stevens .....	ADS Environmental Services .....	29
John Storer .....	City of Rochester, NH .....	2
Michael Stuer .....	Lowell Regional Wastewater Utility .....	31
Terrance Sullivan .....	City of Fall River, MA .....	22
Vijay Sundaram .....	Stantec .....	32
Elizabeth Taglieri .....	Charles River Watershed Association .....	25
Brian Tarbuck .....	Greater Augusta Utility District .....	20
Michael Theriault .....	Wright-Pierce .....	5, 8
Bruce Thibodeau .....	Town of North Andover, MA .....	4
Maureen Thomas .....	Town of Kingston, MA .....	3
Peter Thomson .....	Black & Veatch .....	30
Matt Timberlake .....	Ted Berry Company, Inc. ....	28
Rachelle Tippets .....	WesTech Engineering, Inc. ....	33
Sandra Tripp .....	GHD .....	11
Jacquelyn Tupper .....	Worcester Polytechnic Institute .....	31
David VanHoven .....	Stantec .....	8, 30
Kim Vermeer .....	Urban Habitat Initiatives, Inc. ....	1
Eric Wahlberg .....	Wastewater Technology Trainers .....	23
Richard Waldo .....	Town of Provincetown, MA .....	11
Robert Ward .....	City of Haverhill, MA .....	8, 24
Kathy Watkins .....	City of Cambridge, MA .....	15
Ellen Watts .....	Architerra .....	1
David Webster .....	US EPA Region 1 .....	7
Austin Weidner .....	Tighe & Bond .....	25
Ellen Weitzler .....	US EPA Region 1 .....	7
Alan Wells .....	Kleinfelder .....	33
Ethan Wenger .....	MWRA .....	18
Pamela Westgate .....	Kleinfelder .....	33
Dave Wheeler .....	City of South Burlington, VT .....	31
Matt Williams .....	WesTech Engineering, Inc. ....	33
Julie Wood .....	Charles River Watershed Association .....	22
Julie Wormser .....	Boston Harbor Now .....	1
David Wright .....	Weston & Sampson .....	17
David Wu .....	MWRA .....	23
Hiroko Yoshida .....	Centrisys Corporation .....	26
Mark Young .....	Lowell Regional Wastewater Utility .....	31
Kristel Zaman .....	Xylem .....	28
Jeff Zdrojewski .....	Pure Technologies .....	24
Meredith Zona .....	Stantec .....	16

# Annual Business Meeting

MONDAY, JANUARY 23  
8:00-8:30 AM

## Regis

Respectfully Submitted by  
the NEWEA Nominating  
Committee:  
Mike Bonomo (Chair),  
Matt Formica,  
Fred McNeill,  
Brad Moore,  
Susan Sullivan  
All nominees have  
indicated their willingness  
to serve.

## 2017 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 23, 2017:

- Vice President – Raymond Vermette
- Treasurer – Priscilla Bloomfield (2nd year)
- Council Director – Collection Systems, and Water Resources – John Digiacomio
- WEF Delegate – Matthew Formica
- Connecticut Director – Virgil Lloyd
- Massachusetts Director – Justin DeMello

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

- President – James Barsanti
- President-Elect – Janine Burke-Wells
- Past President – Raymond Willis

The remaining incumbents are fulfilling unexpired terms:

- WEF Delegate – Daniel Bisson (through WEFTEC 2017)
- WEF Delegate – Susan Sullivan (through WEFTEC 2018)
- WEF Delegate – Fred McNeill (through WEFTEC 2019)
- Council Director – Outreach – Jonathan Kunay (3rd year)
- Council Director – Meeting Management – Elena Proakis Ellis (2nd year)
- Council Director – Communications – Jennifer Lachmayr (3rd year)
- Council Director – Treatment, Systems Operations, and Management – Marylee Santoro (2nd year)
- Maine Director – Clayton “Mac” Richardson (2nd year)
- New Hampshire Director – Sean Greig (2nd year)
- Vermont Director – Nathan Lavalley (3rd year)
- Rhode Island Director – Michael Spring (3rd year)

Treasurer Report—2016 Balance Sheet

Adjourn—Raymond Willis, NEWEA President

# Guest Program

MONDAY, JANUARY 23

## Lunch – Top of the Hub

12:00 noon

Dutch Treat, not included in Registration –  
please no jeans

## Exhibit Hall Reception

4:30-6:30 PM • 3rd Floor Exhibit Area

TUESDAY, JANUARY 24

## Regis



## Breakfast

7:30 AM

## PJ Day (as y'all requested!)

9:00 AM–3:00 PM • Coordinator: Joy Lord

This year's Tuesday program is themed PJ Day, so Mother Nature can let the snow fly all day if she wants. We will be all settled in for movies and games; popcorn and ice cream; chatter and laughs—and just being together. As everyone keeps saying—the most important thing is just being together. So, wear your favorite pjs, slippers and robe (or grab one from your room!) Bring your favorite movie. Bring your favorite game. Bring your family pictures (all you Grammys). Bring a smile and happy heart for a very relaxed day together.

## Exhibit Hall Reception

4:00–6:00 PM • 4th Floor Exhibit Area

# Exhibitors

## A.W. Chesterton

**Booth # 168**

Benjamin Stevens, 860 Salem Street, Groveland, MA, 01834 tel: (978) 469-6945, thorpy@chesterton.com, www.chesterton.com

## Abba Pump Parts & Service

**Booth # 108**

## ADS Environmental Services (BRONZE SPONSOR)

**Booth # 437, 445**

ADS is a high quality flow monitoring equipment, software and field service provider specializing in I/I, overflow prevention, CSO monitoring, as well as, short and long-term sewer studies. Peter Frick, 51 Wentworth Ave #15, Londonderry, NH, 03053 tel: (603) 965-4303, pfrick@idexcorp.com, www.adsenv.com

## Advanced Drainage Systems, Inc.

**Booth # 162**

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.

Aaron Cheever, 58 Wyoming Street, Ludlow, MA, 01056 tel: (978) 302-0650, aaron.cheever@ads-pipe.com, www.ads-pipe.com

## 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.

Brooks Newbry, 7927 U.S. Highway 24, Manhattan, KS, 66502 tel: (480) 415-8022, brooks@aeromod.com, www.aeromod.com, Atlantic Fluic Technology, Inc

## AESC Utility Cloud

**Booth # E**

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.

Mark Lynch, 7 Wall Street, Windham, NH, 03087 tel: (603) 560-9259, mark.lynch@utilitycloud.us, www.utilitycloud.us

## AirSep Corp. - A Chart Industries Company

**Booth # 203**

AirSep Corp offers innovative, non-cryogenic O2 supply solutions as an alternative to cylinder/liquid supplies. AirSep's O2 products maximize ozone generator performance & can be used in a wide range of applications such as water/wastewater treatment

James Klein, 260 Creekside Drive, Buffalo, NY, 14228 tel: (716) 691-0202, info@airsep.com, www.airsepcpd.com

## Airvac-Aqseptence Group

**Booth # 416**

Airvac, a brand of Aqseptence Group, is the world leader in vacuum sewer technology, with over 45 years of experience in planning, design, installation, and operation of vacuum systems.

Jesse Nowacki, 4217 N Old US Highway 314217 N Old US Highway 31, Rochester, IN, 46975 tel: (574) 223-3980, jesse.nowacki@aqseptence.com, www.airvac.com/

## Allied Powers LLC

**Booth # 150**

## ANUA International

**Booth # 410-413 & 473, 474 & 481, 482, 489, 490**

Biofiltration System for Odor & VOC Control using Monashell Media, Sustainable and Renewable with the ability to maintain a neutral pH within the Biofilter. Designed like a Biotrickling system yet incorporates many benefits of traditional units.

Casey Davis, PO Box 77457, Greensboro, NC, 27417 tel: (336) 547-9338, cdavis@anua.com, www.anuainternational.com WESCOR Associates, Inc.

## AP/M CentriPipe

**Booth # 409**

AP/M Permaform® offers CentriPipe® and Permacast® systems for the trenchless repair of badly deteriorated manholes, pipe and similar underground structures. Additionally, CONmicSHIELD® liquid additive prevents MIC in concrete sanitary sewers.

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

## Applied Dynamics Corp

**Booth # 188**

## Aqua Solutions, Inc. (GOLD SPONSOR)

**Booth # 452, 453, 460, 461, 469**

Proudly representing: Aerzen, Amwell, Alpha-Lavel, Continental Blower, DeNora, Dumpster-Veyor, FKC Co., Flowserve, Hydro International, Suez (ID-Ozon), Invent, JWC Environmental, RW Gate and Seepex, Inc.,

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

## Aquaturn Systems, Inc.

**Booth # 410-413 & 473, 474 & 481, 482, 489, 490**

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**LandTech Consultants, Inc.** **Booth # 148**  
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**Layne Water** **Booth # 410-413 & 473, 474 & 481, 482, 489, 490**  
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**Lystek International Inc.** **Booth # 138**  
Biosolids & Organics Management; Wastewater Treatment Plant Optimization; Microbiology, Research & Development; Agriology, Soil & Crop Science; Environmental Engineering; Biofertilizer Design, Manufacture & Marketing. Jim Belcastro, 1425 Bishop St N, Unit 16, Cambridge, ON, N1R6J9, Canada, tel: (226) 444-0186, info@lystek.com, www.lystek.com

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**MGD Process Technology Inc.** **Booth # 401-407**  
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**National Filter Media** **Booth # 146**  
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**Water Resource Technologies****Booth # 140**

Water Resource Technologies is a distributor of wastewater pumps and related equipment. We specialize in the design and operation of Pressure Sewer Systems. Call to see how we can help you today!

Victoria Messina, 11221 St Johns Industrial Pkwy, N. Jacksonville, FL, 32246 tel: (407)718-5507, vmessina@wrtllc.com, www.wrtllc.com

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**Watson-Marlow, Inc.****Booth # 152-158,181**

Watson Marlow Fluid Technology Group is the world leader in peristaltic pump technology. From chemical feed systems to sludge transfer, we can provide precise metering pumps for your process needs.

Henry Taubenfeld, 37 Upton Technology Park, Wilmington, MA, 01887 tel: (800) 282-8823, henry.taubenfeld@wmftg.com, watson-marlow.com

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**Weir Specialty Pumps (WEMCO)****Booth # 410-413 & 473, 474 & 481, 482, 489, 490**

WEMCO model grit pumps, model CE sludge pumps, hydrogritters including cyclones and WSP trash pumps.

Mike Howard, 440 West 800 South Street, Salt Lake City, UT, 84101 tel: (801) 359-8731 WESCOR Associates, Inc.

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**Wescor Associates, Inc.****Booth # 410-413 & 473, 474 & 481, 482, 489, 490**

Manufacturer's Representative for over 35 years. Representing leading companies in the water and wastewater fields: Process Equipment-Blowers, Clarifiers, Chemical Feed, Screens, Grit, Odor, Pumping, Liquid/Solids Separation & residual applications.

Bob Montanaro, Jr, 686 South Street, Wrentham, MA, 02093 tel: (508) 384-8921, billjr@wescor1.net, www.wescorassociatesinc.com

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**WesTech Engineering, Inc.****Booth # 164-167 & 173-176**

WesTech designs, engineers and manufactures top quality water and wastewater treatment process equipment for municipal and industrial customers worldwide. From headworks to tertiary and potable specify WesTech – Your Independent Source.

Rich Ross, 3665 South West Temple, Salt Lake City, UT, 84115 tel: (801) 265-1000, info@westech-inc.com, www.westech-inc.com, David F. Sullivan & Assoc., Inc.

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**Whipps, Inc.****Booth # 479**

Made in the USA. Whipps, Inc. manufactures high performance, low leakage, Stainless Steel and aluminum Slide Gates and Stop Logs since 1977.

Ron Niedzwiecki, P O Box 1058 370 South Athol Road, Athol, MA, 01331 tel: (978) 249-7924, RAN@Whipps.com, www.whipps.com, Atlantic Fluic Technology, Inc

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**WILO USA****Booth # 102, 103, 104**

After market coverage by rep, Mechanical Solutions, Inc., for submersible and dry pit sewage pumps with high efficiency German engineering. Submersible mixers for denitrification with extended warranties.

Dana Mullen, 86 Genesis Parkway, Thomasville, GA, 31792 tel: (866) 945-6872, dana.mullen@wilo-usa.com, www.wilo-usa.com

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**Winters Instruments****Booth # 191**

Winters Instruments is a manufacturer of quality pressure and temperature instrumentation with worldwide distribution in more than 90 countries. Visit our website to see www.winters.com.

Paul D'Agostino, 121 Rainside Rd., Toronto, ON, M3A 1B2, Canada, tel: (416) 444-2345, cbagnell@winters.com, www.winters.com

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**Xylem Dewatering Solutions****Booth # 444**

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**Zerion****Booth # 215**

Zerion is a mobile workflow solutions company that enables our customers to improve how they interact with their data. Our solution includes data collection, processing, and visualization to ultimately improve safety and compliance standards.

Ryan Coleman, 13665 Dulles Technology Drive, Suite 110 13665 Dulles Technology Drive, Suite 110, Herndon, VA, 20171 tel: (866) 937-4661, sales@zerionsoftware.com, https://www.zerionsoftware.com







# Help Build Congressional Support for Clean Water in New England

***Join NEWEA at the National Water Policy Fly-In***  
**March 21 – 22, 2017**

Come to the Capitol to join with WEF, NACWA, AWWA, WERF and other organizations to support water quality and to dialog with Congressional representatives from the New England states.

**We're at a critical juncture for the clean water industry!**

**On the plus side, President-elect Trump has indicated strong support for investments in infrastructure**

- Will our water and wastewater systems get critically needed funding?
- Will the Clean Water State Revolving Fund continue unscathed, and what will New England's share be?

**On the uncertainty side, we expect the EPA to look very different in 2017**

- How will water policies change under the new administration?
- What are the water environment focuses for the 115th Congress?

The Government Affairs Committee will be summarizing the key issues related to these topics in advance of the trip to Washington to give you background information and provide talking points to use when you speak with federal legislators.

**This year's Congressional trip will be different and more succinct than past NEWEA trips to DC. Major events will include:**

- NEWEA Kickoff Luncheon on Tuesday March 21st at the Cannon House Office Building (Capitol). Speakers will cover major water developments in Washington, tips for effective congressional meetings and review NEWEA's talking points
- Meetings with Senators, Representatives and aides on Capitol Hill—Tuesday afternoon and Wednesday
- Rally for Clean Water—Wednesday morning at the Capitol
- Congressional Reception—Wednesday evening March 22, Cannon Caucus Room

For more information call: Peter Grose (860-646-2469 x5274)

Bob Fischer (802-658-7964) or Mary Barry (781-939-0908)



## EXHIBITION HOURS

Monday: 10:30 AM – 6:30 PM

Tuesday: 8:00 AM – 6:00 PM

Wednesday: 8:00 AM – 1:00 PM

### CONFERENCE PLANNERS

*Meeting Management Director*

**Elena Proakis Ellis**

*Conference Arrangements*

*Committee Chair*

**Ron Tiberi**

*Exhibits Committee Chair*

**Paul P. Casey**

*Program Committee Chair*

**Helen Gordon**

*Registration Committee Chair*

**Kerry Reed**

*Sponsor Committee Chair*

**Dennis Vigliotte**

*Guest Program Coordinator*

**Joy Lord**

*Awards Program Coordinator*

**Chuck Applebee**

### NEWEA OFFICE

*Executive Director*

**Mary Barry**

*Information Systems/*

*Education Program Coordinator*

**Janice Moran**

*Office Administrator*

**Linda Austin**

### TRAINING CONTACT HOURS

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

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

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

## Meeting Room and Exhibit Locations

### 3rd Floor

Exhibits

Exhibit Booths #101–217

Back Bay Exhibit Hall

Back Bay Foyer Area

### Meeting/Session Rooms

Arlington\*

Berkeley\*

Boston University

Brandeis

Clarendon\*

Dartmouth\*

Exeter\*

Fairfield\*

Harvard

Northeastern

Regis

Simmons

Suffolk

Tufts

Wellesley

*\*Located inside Back Bay Exhibit Area*

### 4th Floor

Exhibits

Exhibit Booths #401–506

Salons F thru K and Foyer

Poster Sessions

### Meeting/Session Rooms

Salons A thru E

Hyannis

Nantucket

Orleans

Provincetown

Vineyard

Yarmouth

Falmouth

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

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

**NEWEA**  
**2017**  
**Annual**  
**Conference**  
**& Exhibit**  
**January**  
**22-25**

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