

**NEWEA
2017
Spring
Meeting
& Exhibit**
June 4-7

SEA CREST BEACH HOTEL
NORTH FALMOUTH, MA

Co-sponsor
Massachusetts
Water Pollution
Control Association




NEWEA

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New England Water Environment Association Presents:

NEWEA 2017 Spring Meeting & Exhibit

June 4 – 7, 2017

Sea Crest Beach Hotel
North Falmouth, Massachusetts



NEWEA
WORKING FOR WATER QUALITY



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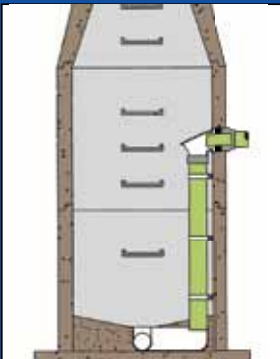


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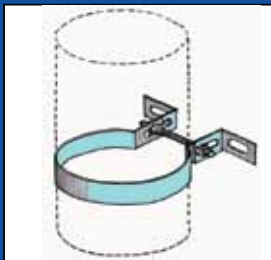


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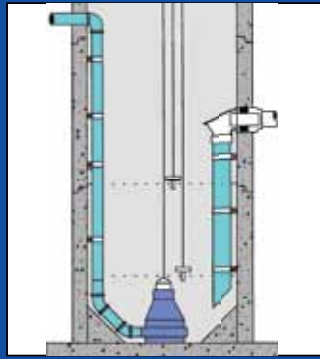
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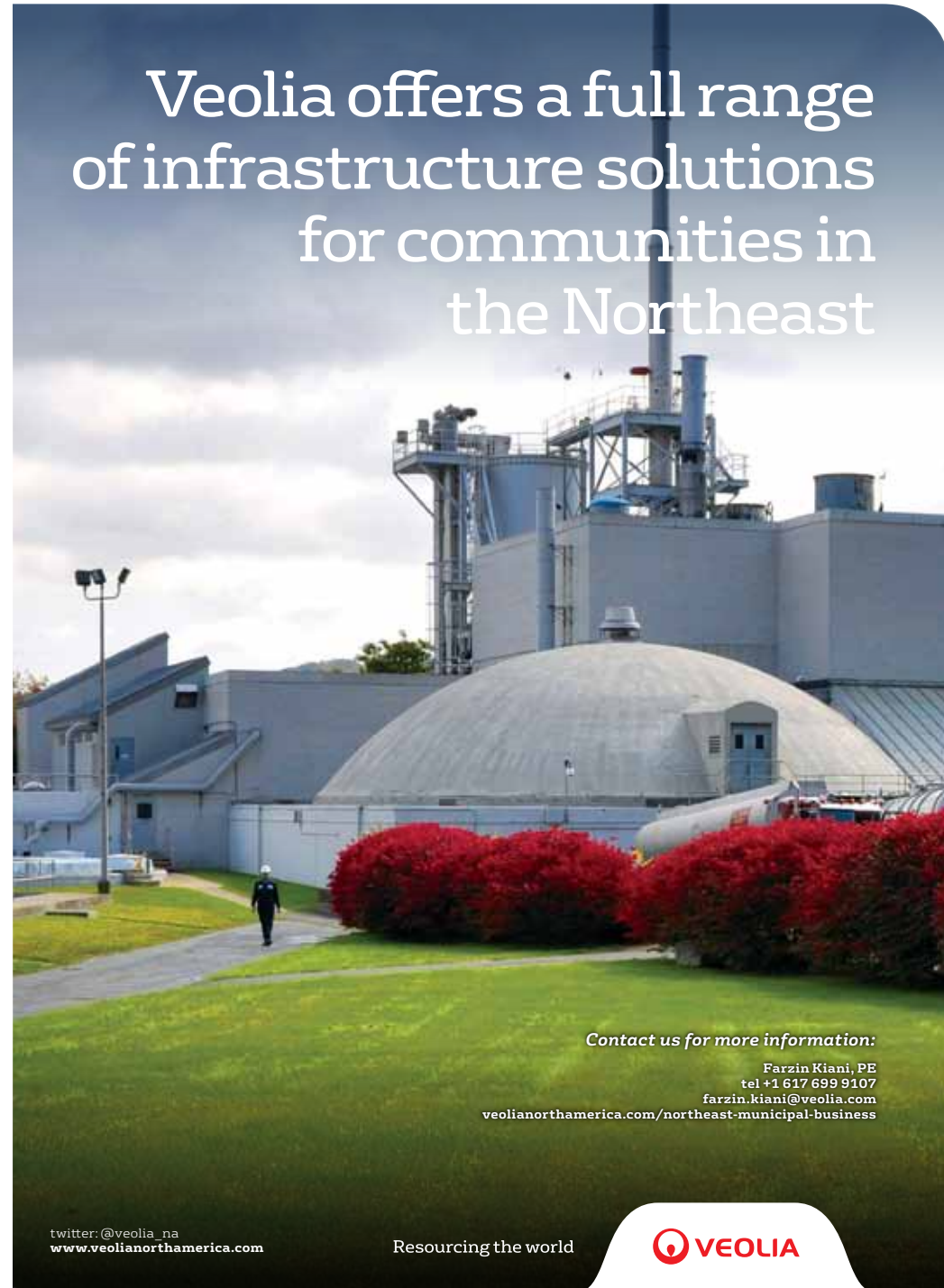
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As New Englanders, we love our days on the water. Sanitary sewage handling systems recycle wastewater from our homes and businesses to help keep our waterways enjoyable. Boston's Deer Island facility, the second largest of its kind in the U.S., can 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**

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



NEWEA
WORKING FOR WATER QUALITY

Co-sponsor:
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New England Water Environment
Association Presents:

NEWEA 2017 SPRING MEETING & EXHIBIT

June 4–7

Sea Crest Beach Hotel
North Falmouth, MA

Conference Events

Sunday, June 4

Registration (Nauset Conference Center) Noon–4:00 PM

Executive Committee Meeting (Nauset 1&2) 1:00 PM

Monday, June 5

Registration (Nauset Conference Center) 7:30 AM–4:00 PM

Speakers' Breakfast (Highland) 7:30–8:30 AM

Breakfast & General Opening Session (Nauset Conference Center).... 8:00–9:00 AM

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

Welcome: Jim Barsanti, NEWEA President, Town of Framingham, MA

Congressman Bill Keating, U.S. Representative, 9th District of Massachusetts (invited)

Featured Speaker – Cynthia Wigren, Atlantic White Shark Conservancy



U.S. Rep. Bill Keating



Cynthia Wigren

Our ocean's ecosystem is all connected...from the tiniest zooplankton to the largest apex predator. White sharks are an asset to our marine environment. As apex predators, they play a critical role in maintaining the health of our ocean's ecosystem. As white shark and other shark species disappear, predator-prey balance becomes disrupted, compromising the health of the world's oceans and negatively impacting other marine species.

As the majority of the oxygen humans breathe comes from the oceans, our own health becomes imperiled when our oceans are unhealthy. Their presence along the coast of Cape Cod indicates the restoration of a healthy ecosystem. Removal of a top-level predator can cause a 'top down' effect on organisms lower in the food webs. If this happens, the ocean ecology changes and all species will be impacted.

Cynthia Wigren, Executive Director of the Atlantic White Shark Conservancy, holds a BS in Wildlife Management from University of New Hampshire and MBA from Southern New Hampshire University. Prior to starting AWSC, Cynthia spent twelve years working for online trading companies in the energy industry, with a focus on project management and strategic planning.

Cynthia is an avid traveler and a scuba diver with a deep appreciation for wildlife on land and sea. Cynthia will share her underwater experiences with whale sharks, great hammerheads, nurse sharks, and great white sharks, that led her to leave the corporate world and establish Atlantic White Shark Conservancy to support shark research and conservation.

Monday, June 5 (continued)

Exhibit Area Open (Nauset Conference Center).....7:30 AM—7:30 PM

TECHNICAL SESSIONS 1 & 2 9:15 – 11:45 AM Break 10:45 – 11:15 AM

WATERSHED: PLANNING, RESTORATION AND CONTAMINANT IMPACTS SESSION 1 Chatham

Moderators: Sara Greenberg, GHD
Jennifer Johnson, Nitsch Company

Massachusetts Watershed-Based Plans—A New Web-Based Tool for Statewide Watershed Planning

– Robert Hartzel, Geosyntec Consultants

A Worrisome Watershed—The Journey to Restore the Iconic Three Bays Estuary

– Zenas “Zee” Crocker, Three Bays Preservation, Inc., & Barnstable Clean Water Trust

Surface Water Nutrient Impacts—Why So Variable?

– Andrew Thuman, HDR
– Richard Isleib, HDR
– Thomas Gallagher, HDR
– Cristhian Mancilla, HDR

Pharmaceuticals and PFASs In Coastal Estuaries on Cape Cod Impacted by Septic Systems

– Laurel Schaidler, Silent Spring Institute; Amy Costa, Center for Coastal Studies
– Patrick Phillips, Dana Kolpin, Edward Furlong, David Alvarez
U.S. Geological Survey
– Rainer Lohmann, University of Rhode Island

STORMWATER 1: COASTAL RESILIENCE AND FLOOD MITIGATION SESSION 2 Race Point

Moderators: Jennifer Doyle-Breen, AECOM
Jerry Potamis, Town of Falmouth, MA (retired)

Developing a Consensus-based Coastal Resiliency Strategy in Brewster, MA

– Geraldine Camilli, Horsley Witten Group
– Mark Nelson, Horsley Witten Group
– Chris Miller, Town of Brewster, MA Natural Resources Department

Increasing the Coastal Resilience of Vulnerable Wastewater Infrastructure on Cape Cod and the Islands—Two Case Studies

– Anastasia Rudenko, GHD
– Marc Drainville, GHD
– Guy Campinha, Town of Wareham, MA

Monday, June 5 (continued)

Assessing the Water Quality Impacts in a Tidal Embayment from the Closure of Proposed Tidal Barriers during 1-in-10-year and 1-in-25-year Rainfall Events

– Richard Isleib, HDR
– James Fitzpatrick HDR
– Nicholas Kim, HDR

Looking Beyond the Levee: Nonstructural Flood Mitigation Alternatives

– Cynthia Baumann, CDM Smith
– James Michel, Town of Greenwich, CT

Lunch Break (on own).....11:45 PM

TECHNICAL SESSION 3 1:00 – 3:30 PM Break 2:00 – 2:30 PM

STORMWATER 2: EMERGING TOOLS FOR STORMWATER MANAGEMENT AND RESILIENCY SESSION 3 Race Point

Moderators: Russell Parkman, Ramboll Environ
James Drake, CDM Smith

Porous Pavement Where?

A Green Infrastructure Success Story in an Unlikely Place

– Scott Turner, Nitsch Engineering, Inc.
– Jennifer Johnson, Nitsch Engineering, Inc.

Designing Dispersed, Small-Scale Green Infrastructure Systems for Stormwater Management in Dense Urban Residential Streets of Cambridge, MA

– Katie Friedman, Charles River Watershed Association
– Julie Wood, Charles River Watershed Association

Emerging Tools for Communication of Climate Change Impacts Towards Improved Resiliency

– David Roman, Geosyntec Consultants
– Andrea Braga, Geosyntec Consultants

Soaking Up the Rain in Our Backyards—Challenges of Achieving Water Quality Goals in A Suburban Community

– Elisabeth Cianciola, Charles River Watershed Association
– Pallavi Mande, Charles River Watershed Association
– Kate Sjoberg, Town of Franklin, MA
– Shawn Mayers, groundSwell Designs

Spring Meeting Welcome Reception (Exhibit Area).....6:00–7:30 PM

Select Society of Sanitary Sludge Shovelers (5S) Induction Ceremony 7:15 PM

During the Monday evening reception, Influent Integrator Charles W. Tyler will induct nine new members into the Select Society of Sanitary Sludge Shovelers: Amy Anderson, ARCADIS; Chuck Applebee, Water Quality & Compliance Service; Kate Biedron, CDM Smith; Mike Bisi, Town of Glastonbury, CT; Paul P. Casey, Flow Assessment Services; Geri Ciardelli, City of Nashua, NH; Bob Fischer, City of South Burlington, VT; Peter Goodwin, Ted Berry Company; and Ginny Roach, CDM Smith

Tuesday, June 6

Morning Bike Ride (meet in lobby) 7:00 AM
Coordinators: Jennifer Lachmayr, ARCADIS, Adam Yanulis, Tighe & Bond
Join the NEWEA cyclists for an informal morning bike ride to start the day off right. The pace is moderate but not competitive and all are welcome. No fee to participate.

Registration (Nauset Conference Center) 7:30 AM–5:00 PM

Speakers' Breakfast (Reds) 7:30–8:30 AM

Presidents' Breakfast (Ocean View Room by invitation only) 8:00–9:00 AM

Exhibit Area Open (Nauset Conference Center) 8:00 AM–5:00 PM

Operations Challenge Event (Nauset Conference Center) 9:00 AM–4:00 PM
Winning teams from New England will represent NEWEA in the WEF national event to be held in Chicago in October.

TECHNICAL SESSIONS 4 & 5

9:00 – 11:30 AM

Break 10:00 – 10:30 AM

PUBLIC EDUCATION:

SESSION 4

PUBLIC ENGAGEMENT FOR A SUSTAINABLE FUTURE

Chatham

Moderators: Ken Carlson, Woodard & Curran
Amy Anderson, ARCADIS

The Public Aspect of Private Inflow Removal—The Development and Implementation of a Private Inflow Removal Program

- Marina Fernandes, CDM Smith
- Nicholas Rystrom, City of Revere, MA
- Kara Johnston, CDM Smith

Get Inspired on How to Grow Awareness Among the Public and Decision Makers About the Value of Water (An Interactive Presentation on the Value of Water Tool Kit)

- Katelyn Biedron, CDM Smith
- Geraldine Ciardelli, City of Nashua, NH

NPDES Permit Delegation for Massachusetts—Is It the Right Move or the Right Time?

- Paul Hogan, Woodard & Curran

Community Resiliency Assessments: A New Application for Climate Change Risk Management Developed for the Hunts Point Neighborhood in the Bronx, New York City

- Werner Mueller, HDR
- Louise Yeung, NYC Economic Development Corporation
- Jessica Colon, NYC Mayor's Office of Resiliency and Recovery

Tuesday, June 6 (continued)

COLLECTION SYSTEMS 1: REHABILITATION AND TECHNOLOGY

SESSION 5

Race Point

Moderators: Tom Loto, Kleinfelder

Scott Naiva, Milliken Infrastructure Solutions

Interceptor Sewer Rehabilitation in Rockland County, New York

- Tom Perry, Multi Utilities Ventures

The City of Nashua Decreases CSOs with Trenchless Rehabilitation and Green Infrastructure

- Nick Ellis, Hazen and Sawyer
- Joe Mandola, City of Nashua, NH

The Big Data Behind the Flush—How the City of Portland, ME Collects, Manages and Analyzes Their Wastewater Collection System Asset Data

- Jessica Gooch, City of Portland, ME

A Mobile App to Evaluate and Categorize Maintenance for Residential Sewer Grinder Pumps

- Michael Vosnakis, Town of Chelmsford, MA
- Aileen Murphy, Weston & Sampson
- Henry Albro, F.R. Mahony & Associates

Buffet Lunch in the Exhibit Area 11:30 AM–1:30 PM

Facility Tour—Woods Hole Oceanographic Institute 1:30–4:00 PM
(see page 18 for complete tour details)

TECHNICAL SESSION 6

1:30 – 4:00 PM

Break 2:30 – 3:00 PM

COLLECTION SYSTEMS 2: RESPONDING TO COASTAL AND ODOR CONTROL CHALLENGES

SESSION 6

Race Point

Moderators: Scott Lander, Retain-It

Matt Brown, ADS Environmental Services

Falmouth Case Study: Traditional Engineering Solutions Become the Cornerstone of Adaptive Management Strategy

- Sandra Tripp, GHD
- Amy Lowell, Town of Falmouth, MA DPW

Impacts and Identification of Tidal Intrusion Sources in Manchester-by-the-Sea's Wastewater Collection System

- Steve Landry, Tata & Howard
- James Hoyt, Tata & Howard
- Allison Shivers, Tata & Howard

Variations in Hydrogen Sulfide Concentrations in a Wastewater Pumping Station With An Odor Control System

- Mohamed Hamoda, Kuwait University

An Economical, Low-Impact Wastewater Collection System

- Garry-Lee Espinosa, Orenco Systems

Operations Challenge Wrap-up and Awards Presentation 4:00–5:00 PM
(Exhibit Area)

NEWEA Reception and Dinner 6:30–10:00 PM
(Courtyard/Oceanview)

Wednesday, June 7

Registration and Continental Breakfast 8:30–9:00 AM
(Nauset Conference Center)

TECHNICAL SESSION 7

9:00 – 11:30

Break/Checkout 10:00 – 10:30 AM

SUSTAINABILITY AND ENERGY— FROM BIOGAS REUSE TO PUMP EFFICIENCY

SESSION 7
Nauset 1

Moderators: Jessica Dzwonkoski, JK Muir, LLC
Nick Ellis, Hazen and Sawyer

Biogas Reuse and Nutrient Removal from Anaerobic Centrate via Microalgal Assimilation

- Jackie Zhang, University of Massachusetts Lowell
- Dingnan Lu, University of Massachusetts Lowell

Hidden Threats—Inefficiencies and Vulnerabilities in Anaerobic Digestion (AD) and Combined Heat & Power (CHP) Systems

- Matthew Williams, WesTech Engineering, Inc.
- Brian Mitchell, WesTech Engineering, Inc.
- Rachelle Tippetts, WesTech Engineering, Inc.

Resilience, Water, and Tools

- Andrew Bennett, Perkins+Will
- Roya Rezaee, Perkins+Will
- Mark Smith, The Nature Conservancy

Pump Efficiency and System Optimization

- Benjamin Stevens, A.W. Chesterton Company

Box Lunch 11:30 AM



Presenters

PRESENTER	AFFILIATION	SESSION NO.
Henry Albro.....	F.R. Mahony & Associates	5
David Alvarez	U.S. Geological Survey	1
Cynthia Baumann	CDM Smith	2
Andrew Bennett.....	Perkins+Will	7
Katelyn Biedron	CDM Smith	4
Geraldine Camilli	Horsley Witten Group, Inc.....	2
Guy Campinha.....	Town of Wareham, MA.....	2
Elisabeth Cianciola	Charles River Watershed Association	3
Geraldine Ciardelli	City of Nashua, NH.....	4
Jessica Colon	NYC Mayor's Office of Resiliency and Recovery.....	4
Amy Costa	Center for Coastal Studies	1
Zenas "Zee" Crocker	Three Bays Preservation Inc., & Barnstable Clean Water Trust.....	1
Marc Drainville.....	GHD	2
Nicholas Ellis.....	Hazen and Sawyer.....	5
Garry-Lee Espinosa	Orenco Systems, Inc.	6
Marina Fernandes.....	CDM Smith	4
James Fitzpatrick	HDR.....	2
Katie Friedman	Charles River Watershed Association	3
Edward Furlong	U.S. Geological Survey	1
Thomas Gallagher.....	HDR.....	1
Jessica Gooch.....	City of Portland, ME.....	5
Mohamed Hamoda.....	Kuwait University	6
Robert Hartzel	Geosyntec Consultants	1
Paul Hogan.....	Woodard & Curran	4
James Hoyt	Tata and Howard, Inc.	6
Richard Isleib	HDR.....	1, 2
Jennifer Johnson.....	Nitsch Engineering.....	3
Kara Johnston	CDM Smith	4
Nicholas Kim	HDR.....	2
Dana Kolpin.....	U.S. Geological Survey	1
Steven Landry	Tata and Howard, Inc.	6
Rainer Lohmann.....	University of Rhode Island.....	1
Amy Lowell	Town of Falmouth, MA	6
Dingnan Lu	University of Massachusetts/Lowell	7
Christian Mancilla.....	HDR.....	1
Pallavi Mande	Charles River Watershed Association	3
Shawn Mayers.....	GrounSwell Designs	3
Joe Mendola.....	City of Nashua, NH.....	5
James Michel.....	Town of Greenwich, CT	2
Christian Miller	Town of Brewster, MA	2

Brian Mitchell	WesTech Engineering, Inc.	7
Aileen Murphy	Weston & Sampson	5
Mark Nelson	Horsley Witten Group, Inc.	2
Werner Mueller	HDR	4
Tom Perry	Multi Utilities Ventures	5
Patrick Phillips	U.S. Geological Survey	1
Roya Rezaee	Perkins+Will	7
David Roman	Geosyntec Consultants	3
Anastasia Rudenko	GHD	2
Nicholas Rystrom	City of Revere, MA	4
Laurel Schaider	Silent Spring Institute	1
Allison Shivers	Tata and Howard, Inc.	6
Kate Sjoberg	Town of Franklin, MA	3
Mark Smith	The Nature Conservancy	7
Benjamin Stevens	AW Chesterton Company	7
Andrew Thuman	HDR	1
Rachelle Tippetts	WesTech Engineering, Inc.	7
Sandra Tripp	GHD	6
Scott Turner	Nitsch Engineering	3
Michael Vosnakis	Chelmsford DPW-Sewer Division	5
Matthew Williams	WesTech Engineering, Inc.	7
Julie Wood	Charles River Watershed Association	3
Louise Yeung	NYC Economic Development Corporation	4
Jackie Zhang	University of Massachusetts/Lowell	7

Moderators

MODERATOR	AFFILIATION	SESSION NO.
Amy Anderson	ARCADIS	4
Matt Brown	ADS Environmental Services	6
Ken Carlson	Woodard & Curran	4
Jennifer Doyle-Breen	AECOM	2
James Drake	CDM Smith	3
Jessica Dzwonkoski	JK Muir, LLC	7
Nick Ellis	Hazen and Sawyer	7
Sara Greenberg	GHD	1
Jennifer Johnson	Nitsch Engineering	1
Scott Lander	Retain-It	6
Tom Loto	Kleinfelder	5
Scott Naiva	Milliken Infrastructure Solutions	5
Russell Parkman	Ramboll Environ	3
Gerald Potamis	Town of Falmouth, MA (retired)	2

Operations Challenge

MONDAY, JUNE 5

Unless otherwise stated, all events will take place in the Exhibit Area

Set-up Equipment / 8:00–11:45 AM

Lunch / 11:45 AM–1:00 PM / on your own

Operations Challenge Review / 1:00–2:00 PM

Process Control Written Test / 2:00–2:45 PM

Equipment Review / 2:45–4:00 PM

Reception / 6:00 PM

TUESDAY, JUNE 6

Event Coordinators & Judges Meeting / 8:00–8:30 AM

Team Sign In / 8:30–9:00 AM

Operations Challenge Event / 9:00 AM–4:00 PM

Buffet Lunch / 11:30 AM–1:00 PM

Awards Ceremony / 4:00 PM

Reception & Dinner / 6:30 PM

Meetings

SUNDAY, JUNE 4

Planning Meeting 2015 Follow Up / Noon / Highland

Executive Committee Meeting / 1:00 PM / Nauset 1&2

Assessment & Development Committee / 3:30 PM / Nauset 1&2

MONDAY, JUNE 5

Awards Committee / 9:30 AM / Highland

Laboratory Practices Committee / Noon / Reds

Watershed Management Committee / Noon / Reds

Laboratory Practices Exam Sub-Committee / 1:30 PM / Highland

Public Awareness Committee / 4:00 PM / Reds

TUESDAY, JUNE 6

Innovation Task Force (HATCH) / 9:30 AM / Highland

ASA Presidents and State Directors / 2:00 PM / Highland

Government Affairs Committee / 3:00 PM / Highland

NEWEA 2017 EXECUTIVE COMMITTEE

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Vice President Raymond Vermette
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WEF Delegate (10/15) Susan Sullivan
WEF Delegate (10/16) Frederick McNeill
WEF Delegate (10/17) Matthew Formica

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Outreach Council Jonathan Kunay
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Utility Management Committee Brian Armet

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Collection Systems Committee Peter Garvey
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Student Activities Committee Annalisa Onnis-Hayden
Water for People Committee Anastasia Rudenko
Young Professionals Committee Ben Stoddard

* Ad hoc

Facility Tour

TUESDAY JUNE 6
1:30 PM

Woods Hole Oceanographic Institute

Visit the Woods Hole Oceanographic Institute in Falmouth, MA for a guided walking tour of the facility and an option to explore the Ocean Science Exhibit Center. The Woods Hole Oceanographic Institute is a world's leading, independent non-profit organization dedicated to ocean research, exploration, and education. Research areas include a wide range of topics related to ocean and earth science, marine policy, and interdisciplinary work related to coastal ocean, ocean life, ocean exploration and climate change.

The walking tour will include a general overview of the Woods Hole Oceanographic Institute, including a tour through several engineering labs, the dock area and normally restricted village areas. The tour will start at the Woods Hole Oceanographic Institute Information Office and end at the Ocean Science Exhibit Center. Visitors to the Ocean Science Exhibit Center learn about the Institution's ocean science research and the vessels and tools developed by Woods Hole engineers and scientists. Tour is approximately 1 hour.

Transportation: Due to parking limitations at Woods Hole, transportation will be provided. Be ready to leave Sea Crest no later than 1:30 PM. **Limited Availability.**

Time: Tour starts promptly at 2:00pm.



Guest Program

MONDAY, JUNE 5

Breakfast

8:00–9:00 AM – Reds

Golf Tournament

Noon. Separate registration required—\$110 pp

NEWEA Reception

6:00–7:30 PM – Exhibit Area

TUESDAY, JUNE 6

Breakfast

7:30–8:45 AM – Shutters

Guest Tour and Program

9:00 AM–3:00 PM – Shutters

Ladybugs All Day Long

We'll don our smocks and paint a cheery lady bug painting that can be customized by adding your children or grandchildren. Also in store is making a game board, making our 2017 ornament and a few other surprises, as well as, lunch somewhere in between.

As this is all about friendship, reach out to someone you know that attends the conference but doesn't know about our program. Let them know just how much fun we have every time.

So, RED & BLACK & DOTS and DAISIES & LADYBUGS are in order for the laughter and fun we always have in just being together.

Operations Challenge Awards Reception

4:00 PM – Exhibit Area

Reception & Dinner

6:30–10:00 PM – Courtyard/Oceanview

Spring Meeting Exhibitors

ADS Environmental	Precision Trenchless
AP/M Permaform	Pump Systems, Inc.
BETA Group, Inc.	Russell Resources, Inc.
CSL Services, Inc.	Senqcia Maxco, Ltd.
CUES	Smart Vent Products
Duke's Root Control, Inc.	Statewide Aquastore, Inc.
EST Associates, Inc.	StormTrap
Flow Assessment Services LLC	Ted Berry Company
HACH	Warren Environmental
IPEX USA LLC	Water Resource Technologies LLC
Lystek International	WesTech Engineering, Inc.
Mechanical Solutions	
Orenco Systems, Inc.	

Spring Meeting Planners

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