NEWEA 2019
Spring Meeting & Exhibit

June 2–5
Wentworth by the Sea
New Castle, New Hampshire
NEWEA 2019
Spring Meeting & Exhibit
Final Program
Schedule-at-a-Glance

Sunday June 2
- Registration
- Executive Committee Meeting
- President’s Reception
- Operations Challenge Event

Monday–June 3
- Speakers’ Breakfast
- Lunch Break
- Registration
- Breakfast and General Opening Session
- Exhibit Area Open
- Operations Challenge Event
- Technical Sessions 1–2
  1. Innovative Solutions
  2. Collection Systems
- Technical Session 3A–3B
  3A. Phosphorus Removal
  3B. System Optimization—Energy

Tuesday–June 4
- Bike Ride
- Speakers’ Breakfast
- Presidents’ Breakfast
- Lunch Buffet
- Facility Tour and Presentation
- Exhibit Area Open
- Operations Challenge Event
- Technical Sessions 4–5
  4. Stormwater Strategies
  5. Innovation In Our Industry
- Technical Session 6–7
  6. 2018 Stormy Awards
  7. Innovation

Weds–June 5
- Registration & Breakfast
- MR & Mrs Fish Shows
- Technical Session 8–9
  8. Resiliency Strategies
  9. Plant Operations
- Box Lunch
- Operations Challenge Awards
- Reception and Dinner

Room Assignments
Technical Sessions
1, 3, 4, 6, 8 – Garden 1
2, 5, 7, 9 – Garden 2
The Flexibility You Need for Your Flow Sensors.

FL1500/FL900
Stationary & Portable Loggers
Hach offers flow loggers and flow sensors for virtually every flow measurement application. Ask a Hach Flow expert which logger best fits your application so that you can have more confidence in your data.

FSDATA Online Data Manager
The powerful, but user-friendly, web-based FSDATA Online Data Manager software provides 24/7 access to your flow data and flow meters—dramatically reducing maintenance costs and lost data.

Hach Data Delivery Services (DDS)
For those who want good flow data but not the challenges and risk associated with managing labor, purchasing, installing & maintaining equipment; and organizing data—we offer a new generation of flow monitoring services: Hach DDS. You’ll have accurate flow data in your hands without any of hassles of meter ownership.

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Your local representative: JWB Company
www.jwbcompany.net

Offices in Rhode Island, Connecticut, Massachusetts and Maine.
(203) 879-6959
jamie@jwbcompany.net

NEWEA 2019 SPRING MEETING 1
These are Friday Night Lights.

Don't let a clogged pump ruin your weekend.

Sithe submersible chopper pumps designed to chop and macerate solids in extremely challenging waste water applications.

Visit us online to learn more.

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See us at NEWEA Conference Booth #185

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Since 1947 our engineers and constructors have provided exceptional service in the water, environment, transportation, energy, and facilities industries.

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System reliability, pump efficiency and industry-specific controls are critical to successfully maintaining an effective pumping system. Variable Frequency Drives (VFDs) play a significant role in these applications as they allow you to optimize the process and maximize the efficiency of your system.

The new ACQ580’s innovative software, intuitive keypad, and menu-driven programming simplify the operation of even the most complex applications. The keypad’s optional Bluetooth capability provides flexibility and an extra level of safety for commissioning and troubleshooting.

Our pump-specific software provides pump clean, initial ramp up, check valve ramp down, and other pump-specific functions to optimize your system.

That’s why it’s critical that you work with a company with experience in your industry and select VFDs designed by the technology experts.

Who you choose matters.

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ABB’s New England VFD Rep
Flow Tech, Inc., Larry Scola
860.221.3186 or LScola@FlowTechInc.com

Optimize process performance
With less effort on your part.
Utility Management’s Workforce Sustainability Conference

Fall 2019 – Workforce Sustainability is an important and challenging issue for managers who are tasked with keeping facilities operating, providing engineering services, and supporting the industry into the future. Join us for a one-day conference as the Utility Management Committee explores workforce sustainability in today’s climate. The committee is currently requesting abstracts on workforce experiences; programs developed/implemented for workers; career paths; and increasing diversity in the workforce. Deadline: June 21, 2019.

Submit online at www.newea.org/events/specialty-seminars-events/abstract-submissions/.

Teacher Training Workshop

August 20, 2019
Narragansett Bay Commission, Providence, RI

Join the New England Water Environment Association (NEWEA) for a Teacher Training (K-12) at the Narragansett Bay Commission in Providence, Rhode Island this summer. Participate in a treatment plant tour; join in on a laboratory demonstration with microscopes; learn about NEWEA’s educational resources available for use in the classroom; and engage in a variety of hands-on workshops that you can repeat with your students. Continental breakfast, lunch and certificates of attendance will be provided. Space is limited to the first 50 registrants. Learn more and register online at www.newea.org/events/teacher-training-workshop/.

Information Technology & Asset Management Fair—Technology in the Water Works Industry

November 5, 2019
New England Water Works Association Training Center
Holliston, MA

NEWWA's Information Technology Committee and NEWEA's Asset Management Committee are seeking presentations for the Fall 2019 Information Technology & Asset Management Fair. Abstracts should be submitted via e-mail to Margaret McCarthy at mccarthym@wseinc.com. Deadline: June 10, 2019.

Learn more at www.newea.org/events/specialty-seminars-events/asset-management/.

Meet

UBER BLACKSTONE CLEAN WATER

Formerly Upper Blackstone Water Pollution Abatement District

Celebrating 50 years of improving the water quality and restoring the uses of the historic Blackstone River.

Our staff of wastewater professionals would like to welcome you to our new brand as we continue to exhibit our commitment to

STEWARDSHIP THROUGH SCIENCE

If you share our vision and want to learn more about our team, schedule a visit.

50 Route 20, Millbury, MA 01527 P 508.755.1286 UBCleanwater.ORG
Conference Events

Sunday, June 2

Registration (Upper Stair Alcove) .............................................. Noon – 4:00 PM
Operations Challenge Event (Wentworth Ballroom) .................. Noon – 7:00 PM
Executive Committee Meeting (Garden Ballroom) ..................... Noon
President’s Reception (Solarium) .............................................. 6:00 – 7:30 PM

Monday, June 3

Registration (Upper Stair Alcove) .............................................. 7:30 AM – 5:00 PM
Speakers’ Breakfast (Restaurant) .............................................. 7:30 – 8:30 AM
Breakfast and General Opening Session (Wentworth Ballroom) ....... 8:00 – 9:00 AM
Moderator: Amy Anderson, NEWEA Program Committee Chair, Arcadis
Welcome: Raymond Vermette, NEWEA President, City of Dover, New Hampshire

Featured Speaker: The Honorable Jeanne Shaheen, United States Senator, New Hampshire
The first woman in U.S. history to be elected both a Governor and a United States Senator, Jeanne Shaheen has been committed to serving the citizens of New Hampshire and is known for her common-sense leadership, hard work and dedication to improving the lives of the middle class. She has served in the United States Senate since 2009 and is a member of the Senate Committees on Armed Services, Foreign Relations, Appropriations, and Small Business and Entrepreneurship.

Exhibit Area Open (Wentworth Foyer) ................................. 7:30 AM – 7:30 PM
Operations Challenge Events (Wentworth Ballroom) ............... 7:30 – 11:00 AM
Monday, June 3 (continued)

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

PHOSPHORUS REMOVAL—MONITORING STRATEGIES AND INNOVATIVE TECHNOLOGIES
SESSION 3A
Moderator: Ned Beecher, NEBRA
Orthophosphate Monitoring and Phosphorous Removal Control
– Myra Michaels, Xylem
– Benjamin Barker, Xylem
– Robert Smith, Xylem
Rare Earth Technology in Wastewater Treatment
– Logan Wherry, Neo Water Treatment

SYSTEM OPTIMIZATION FOR ENERGY SAVINGS AND ENERGY USE
SESSION 3B
Moderator: Sharon Nall, NH DES
Optimizing Biosolids Processing, Energy Reuse and Sidestream Treatment
– Meg Hollowed, Veolia Water Technologies
– Sudhakar Viswanathan, Veolia Water Technologies
– Brad Mrjdenovich, Veolia Water Technologies
City of Manchester, NH WWTF Boiler Upgrade Project
– Robert Robinson, City of Manchester, NH EPD
– Robert Morris, City of Manchester, NH EPD
– Ryan Nealley, Yeaton Associates, Inc.

Spring Meeting Welcome Reception (Wentworth Ballroom) 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 8 new members into the Select Society of Sanitary Sludge Shovelers: Todd Brown, University of Hartford; Bob Domkowski, Xylem; Bruce Kirkland, Greater New Haven WPCA; Joe Kruzel, Springfield Water & Sewer Commission; Nora Lough, Narragansett Bay Commission; Jerry Potamis, Falmouth, MA; Jerry Reed, City of Framingham, MA; Tim Vadney, Wright-Pierce

Tuesday, June 4

Morning Bike Ride 7:00 AM
Coordinator: Adam Yanulis, Tighe & Bond
Join the NEWEA cyclists for an informal bike ride to start the day off right. The pace is moderate but not competitive and all are welcome. No fee to participate.

Continental Breakfast (Wentworth Ballroom) 7:30 – 9:00 AM
Registration (Upper Stair Alcove) 7:30 AM – 5:00 PM
Speakers’ Breakfast (Restaurant) 7:30 – 8:30 AM
Exhibit Area Open (Wentworth Foyer) 7:30 AM – 5:00 PM
NEWEA Presidents’ Breakfast (Solarium, by invitation only) 8:00 – 9:00 AM
Operations Challenge Event (Wentworth Ballroom) 8:00 AM – 3:00 PM
Winning teams from New England will represent NEWEA in the WEF national event to be held in Chicago in October.
Tuesday, June 4 (continued)

TECHNICAL SESSION 6 & 7  
1:30 – 4:00 PM  
Break 2:30 – 3:00

2018 STORMY AWARDS—  
BEST IDEAS IN NEW ENGLAND STORMWATER  
SESSION 6  
Garden 1

Municipal and institutional stormwater management programs in New England are challenged by limited dedicated funding, political support, and staff capacity. Each year, the New England Stormwater Collaborative, a joint committee of NEWWA, NE APWA and NEWEA, awards exceptional ideas that are changing that situation. This session will provide an overview of the STORMY Award program, present the 2018 winning ideas, and end with a panel discussion.

The 2018 New England Stormy Award winners are:

Franklin Tree Wells  
– Brutus Cantoreggi, Town of Franklin, MA

Think Blue Massachusetts—A Statewide Education Campaign to Build Awareness of Stormwater  
– Robin Leal Craver, Town of Charlton, MA and MA Statewide Municipal Stormwater Coalition

Climate Resilient Design Standards and Guidelines for Protection of Public Rights of Way  
– Katie Choe, City of Boston, MA DPW

Panel Discussion on Past and Present STORMY Award Winning Ideas

WATER TECHNOLOGY AND INNOVATION—EMBRACING  
ADVANCE THE NATION’S CLEAN AND SAFE WATER GOALS  
SESSION 7  
Garden 2

Moderators: Helen Gordon, Environmental Partners Group  
Deb Mahoney, Hazen and Sawyer

Water Innovation—Inspire, Connect, and Accelerate the Revolution ... 1:30 – 2:30  
– Prof. David Reckhow and Patrick Wittbold, University of Massachusetts/Amherst  
– Michael Murphy, MA Clean Energy Council  
– Miles Walker, Woodard & Curran

Diverse Workforce in the Water Industry  
– Roberto Vengoechea, Watts Water Technologies  
– Jacqueline Ashmore, Boston University Institute of Sustainable Energy  
– Erika Rodriguez, Chica Project

Operations Challenge Wrap-up ................................................................. 4:00 – 5:00 PM  
and Awards Presentation (Wentworth Ballroom) 6:30 – 10:00 PM

NEWEA Reception and Dinner (Grand Ballroom)......................... 6:30 – 10:00 PM

Wednesday, June 5

Registration and Continental Breakfast (Upper Stair Alcove)......... 8:00 – 8:30 AM

TECHNICAL SESSION 8 & 9  
9:00 – 11:30 AM  
Break 10:00 – 10:30

RESILIENCY STRATEGIES—BRACING FOR CHANGE  
SESSION 8  
Garden 1

The City of Quincy Coastal Flood Mitigation & Infrastructure Resiliency Strategies  
– Marina Fernandes, Tighe & Bond  
– Paul Costello, City of Quincy, MA  
– Gabrielle Belfit, Tighe & Bond

Resilient Design and Regulating for Climate Change  
– Annique Fleurat, VHB  
– Mark Costa, VHB

Living with the Bay Rebuild by Design Resiliency Strategy: The Plan, The Program, The Projects  
– Jake Oldenburger, Tetra Tech  
– Michael Bomar, Tetra Tech  
– Jason Hellendrung, Tetra Tech

Advancing Statewide Risk Reduction and Resilience in Massachusetts  
– Aaron Weieneth, AECOM

PLANT OPERATIONS  
SESSION 9  
Garden 2

Moderators: Tom Hazlett, Woodard & Curran  
John Adie, NH DES

Addressing Brain Drain in Portland, Maine  
– Scott Firmin, Portland Water District  
– Charlene Poulin, Portland Water District

Updating a CSO Facility with New Technology and No Interruption in Service  
– Roger Kaliman, Tetra Tech  
– Carol Hufnagel, Tetra Tech

A Multi-Sector Approach to Reduce Energy Consumption and Optimize Process Efficiency at the Upper Blackstone  
– Edris Taher, Upper Blackstone Clean Water  
– Karla Sangrey, Upper Blackstone Clean Water  
– Tim Loftus, Upper Blackstone Clean Water

Opening the Floodgates of Experiential Learning for Students of All Ages  
– Nick Tooker, University of Massachusetts  
– Todd Brown, University of Hartford  
– Annalisa Onnis-Hayden, Northeastern University  
– Nels Tooker, Newington, NH Public Schools

Mr. & Mrs. Fish (Wentworth A—two performances) ...................... 9:30 and 11:30 AM

Mr. & Mrs. Fish is a popular marine education program that promotes environmental stewardship through the use of story, song, and dance.

Box Lunch (Wentworth B)................................................................. 11:30 AM
## Presenters

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<tr>
<th>PRESENTER</th>
<th>AFFILIATION</th>
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<td>Dana Allen</td>
<td>Watershed Consulting Associates, LLC</td>
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<td>Jacqueline Ashmore</td>
<td>Boston University Institute of Sustainable Energy</td>
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<td>Kenneth Harwood</td>
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<td>Timothy Loftus</td>
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<td>Fred McNeill</td>
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<td>Robert Morris</td>
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### Moderators

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<td>John Adie</td>
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### Spring Meeting Exhibitors

- ADS Environmental
- Aquionics, Inc.
- Atlantic Fluid Technologies
- Bristol Community College
- CUES
- Duke’s Root Control Inc
- EMS NEW ENGLAND
- EST Associates, Inc.
- Green Mountain Pipeline Services
- Martindale Associates
- Mechanical Solutions, Inc.
- National Water Main Cleaning Co.
- Neo Water Treatment
- Prime Resins
- Smith & Wilkinson
- Statewide Aquastore, Inc.
- Walker Wellington LLC
- Williamson Electrical Co., Inc.

### Spring Meeting Planners

**Conference Arrangements**
- Ron Tiberi
  - Program
  - Amy Anderson
  - Registration
  - Meg Tabacsko
  - Exhibits
  - Clair Meehan

**Operations Challenge**
- Travis Peaslee

**Guest Program**
- Lauren Hertel

**Meeting Management Director**
- Kate Biedron

**Golf Tournament/Sponsors**
- Dennis Vigliotte

**NEWEA Annual Conference & Exhibit**

SAVE THE DATE • January 26–29, 2020

Boston Marriott Copley Place Hotel, Boston, MA
Operations Challenge

SUNDAY, JUNE 2
Set-up Equipment / 1:00 – 7:00 PM
Maintenance Event Practice / 3:00 – 7:00 PM

MONDAY, JUNE 3
Set-up Equipment (if necessary) / 8:00 – 11:00 AM
Competition Review / 9:30 – 10:30 AM
Process Control Event / 10:30 – 11:00 AM
Process Control Event Grading / 11:00 AM – 1:00 PM
Breakfast Hill Country Club (volunteers) / 11:30 AM
Reception / 6:00 – 7:30 PM

TUESDAY, JUNE 4
Team Sign-in, Event Coordinators & Judges Meeting / 8:00 – 8:30 AM
Operations Challenge Events / 8:30 – 11:30 AM
Buffet Lunch / 11:30 AM – 1:30 PM
Operations Challenge Events (if necessary) or Equipment Breakdown / 1:30 – 3:00 PM
Awards Ceremony / 4:00 PM
Reception & Dinner / 6:30 PM

Meetings

SUNDAY, JUNE 2
Executive Committee Meeting
Noon / Garden-ballroom

MONDAY, JUNE 3
Government Affairs Committee
10:00 AM / Garden 3
Laboratory Practices Committee
10:30 AM / Solarium
Operations Challenge Judging
11:00 AM / Magnolia
Young Professionals Committee
Noon / Garden 3
Crystal Crucible Society
12:30 PM / Restaurant
Public Awareness Committee
4:00 PM / Garden 3

TUESDAY, JUNE 4
Stormwater Committee
7:30 AM / Garden 3
Awards Committee
9:30 AM / Garden 3
Membership Committee
10:00 AM / Solarium
NEWEA WEFMAX
10:00 AM / Boardroom
Sponsor Committee
Noon / Concierge Lounge
Government Affairs Subcommittee
Noon / Solarium
ASA
2:00 PM / Garden 3
NEWEA 2019 EXECUTIVE COMMITTEE

President: Raymond Vermette
President Elect: Jennifer Lachmayr
Treasurer: Clayton Richardson
Past President (Management Review): Janine Burke-Wells

WEF Delegate (10/16): Frederick McNeill
WEF Delegate (10/17): Matthew Formica
WEF Delegate (10/18): Susan Guswa
WEF Delegate (10/19): James Barsanti

State Directors
Connecticut: William Norton
Maine: Jeffrey McBurnie
Massachusetts: Justin deMello
Rhode Island: Scott Goodinson
New Hampshire: W. Steven Clifton
Vermont: Chris Robinson

Council Directors
Collection Systems/Water Resource: John Digiacomo
Communications: Meg Tabacsko
Meeting Management: Katelyn Biedron
Outreach: Justin Skelly
Treatment, Systems Operations, & Management: Philip Forzley
Executive Director: Mary Barry

NEWEA 2019 COUNCILS

Vice President Council
Veterans Workforce Development*: Peter Goodwin

Management Review Committees
Assessment and Development: Marylee Santoro
Awards: Jay Sheehan
Bylaws: Michael Bonomo
Member Appreciation: Denise Descheneau
Nominating: Raymond Willis III
Sponsor: Dennis Vigliotto

Meeting Management Committees
Conference Arrangements: Ronald Tiberi
Exhibits: Clair Meehan
Program: Amy Anderson
Registration: Meg Tabacsko

Communications Committees
Journal: Alexandra Bowen
Public Awareness: Denise Descheneau
Website *: Robert Musci

Treatment, Systems Operations, & Management Committees
Asset Management: Daniel Roop
Contaminants of Emerging Concern: Rachel Roop
Energy: Sharon Nall
Laboratory Practices: Walter Palm
Operations Challenge: Travis Peaslee
Plant Operations: Thomas Hazlett
Residuals Management: Natalie Sierra
Small Community: Kurt Mailman
Utility Management: Gary Zrelak

Collection Systems/Water Resource Committees
Collection Systems Certification: Gregory Kidd
Collection Systems: Peter Garvey
CSO/Wet Weather Issues: Steven Perdios
Industrial Wastewater: Sarah White
Sustainability: Courtney Eaton
Stormwater: Angela Blanchette
Water Reuse: Robert Scott
Watershed Management: Jennifer Johnson

Outreach Committees
Government Affairs: Robert Fischer
Humanitarian Assistance and Grants: Marina Fernandes
Membership: Peter Frick
Public Education: Leonard Young
Safety: David Wright
Scholarships: Nick Valinski
Student Activities: Nicholas Tooker
Water for People: Renie Jesanis
Young Professionals: Colin O’Brien

* Ad hoc
Facility Tour

Peirce Island Wastewater Treatment Facility

The City of Portsmouth, New Hampshire is undertaking the largest capital project in the City’s history to upgrade the Peirce Island Wastewater Treatment Facility. The project, required by a Consent Decree with the EPA, will upgrade the existing chemically enhanced primary treatment system to a secondary treatment facility with nitrogen removal processes. The City’s Final Wastewater Master Plan from 2010 identified the need for high-rate, small footprint treatment technologies due to the limited amount of available space on Peirce Island. Since these high-rate technologies have limited full-scale installations, it was recommended that several different systems be piloted to determine the most applicable technology. Based on the results of the extensive piloting program, the use of a two-stage Veolia Water Technologies BIOSTYR™ Biological Aerated Filter (BAF) was recommended. The first BAF stage accomplishes both carbon oxidation and nitrification while the second stage is designed for denitrification.

The $92M project commenced construction in the Fall of 2016 and will increase the design average daily flow from 4.8 MGD to 6.13 MGD. The scope of the project also includes renovation of the existing grit removal building and construction of new headworks, solids handling, laboratory, and administrative facilities. The project is currently more than halfway through its four year construction period with the new secondary and nitrogen removal facilities projected to begin operation in the first half of 2020.

Guest Program

**Tuesday, June 4**

**Tour Details**

1:00 – 1:30 Presentation (room: Garden 3)
Terry Desmarais, City of Portsmouth, NH
Jon Pearson, AECOM

1:30 Board Bus
Be ready to leave the hotel no later than 1:30. Tour starts promptly at 2:00.
Tour participants should bring hard hats and wear sturdy footwear as this is an active construction site.
Due to parking limitations at Peirce Island, transportation will be provided.

**Monday, June 3**

**Breakfast**
8:00 – 9:00 AM (Wentworth Ballroom)

**Golf Tournament**
11:30 AM Registration.
Join us at the Breakfast Hill Golf Club as we tee off at 12:15 PM as part of a “Shotgun” start with numerous prizes. See last page for Golf Tournament further details. Separate registration required, $110 pp.

**NEWEA Reception**
6:00 – 7:30 PM (Wentworth Ballroom)
Join us at the NEWEA Reception and 5S Induction Ceremony in the Spring Meeting Exhibit Area.

**Tuesday, June 4**

**Guest Tour and Program**
10:30 AM – 2:00 PM • Coordinator: Lauren Hertel
*Walking Tour of Historic Portsmouth, NH*
Join the knowledgeable staff of the Portsmouth Historical Society and learn why Portsmouth is the hub of the New Hampshire Seacoast! Portsmouth downtown is filled with treasures and the walking tour will introduce you to the City’s rich past and lively present. A unique mix of architecture, specialty shops, and bustling streets nestled in a village-like setting. This walking tour aims to bring the City alive.

**Lunch** will be hosted following the tour at a local restaurant in the downtown area.
**Transportation** will be provided.

**Operations Challenge Awards Reception**
4:00 PM (Wentworth Ballroom)

**Reception & Dinner**
6:30 – 10:00 PM (Grand Ballroom)
Call for presentations and papers

NEWEA invites the submission of abstracts for presentations for the upcoming 2020 Annual Conference & Exhibit.

This prestigious conference consistently attracts more than 2,200 engineers, consultants, scientists, operators, and academics, and features a variety of technical sessions, and more than 200 exhibitor displays. It provides an opportunity for professional exchange of information and state-of-the-art concepts in wastewater treatment and environmental issues.

In addition to NEWEA’s traditional sessions, the focal theme of the 2020 Annual Conference is innovation. Entries in this category are encouraged.

Submit abstracts online at annualconference.newea.org/abstracts

Abstract submission deadline
June 14, 2019

For more information contact the NEWEA office
Phone: 781-939-0908 • Email: mail@newea.org

It is NEWEA’s policy that all participants and speakers are responsible for their own conference registration fee and other meeting-related expenses.
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