NEWEA&NYWEA Joint Spring Meeting
Technical Conference & Exhibition

On-Site Program

ENVIRONMENTAL STEWARDSHIP IN THE 21ST CENTURY

June 5–8, 2016
Groton, Connecticut
Mystic Marriott Hotel

Meeting Sponsors:
Connecticut Association of Water Pollution Control Authorities (CAWPCA)
Connecticut Water Pollution Abatement Association (CWPAA)

http://events.newea.org
We manage water from start to finish.

Think Fleet First.

SIXTY YEARS.
THOUSANDS OF PROJECTS.
COUNTLESS DETAILS.
WE HAVE YOU COVERED.

gafleet.com
Table of Contents

Opening General Session .............................................. 5
Session 1 Utilities of the Future .................................... 5
Session 2 Maintaining Our Collection Systems into the Future ........... 6
Session 3 Process Efficiency and Cost Saving Measures ................... 7
Session 4 Managing Stormwater through Green Infrastructure ........... 8
Session 5 Digestion at the Water Resource Recovery Facility ............. 9
Session 6 Sustainable Design 1 ....................................... 10
Session 7 Nutrient Removal 1 ........................................ 11
Session 8 Public Awareness .......................................... 12
Session 9 Reductions in Greenhouse Gas Emissions ..................... 13
Session 10 Sustainable Design 2 .................................... 14
Session 11 Residuals .................................................. 15
Session 12 Global Climate Change .................................. 16
Session 13 The Stormy Awards ..................................... 17
Session 14 Low Impact Development ................................ 17
Session 15 Nutrient Removal 2 ..................................... 18
Session 16 Emerging and Current Issues in Water Quality ............. 19

Advertisers ............................................................... 42
Committee Meetings & Schedule ..................................... 50
Exhibitors and Floor Plan ............................................. 24–30, 42
Guest Program and Special Events .................................. 32–33
Meeting at a Glance .................................................. 48–49
NEWEA Board of Directors ......................................... 44
NYWEA Board of Directors ......................................... 45
Operations Challenge .................................................. 36–37
Professional Tours ..................................................... 34
Speaker Contact Information ......................................... 40–41
Sponsors ................................................................. 39
Upcoming Events ..................................................... 47
Water For People Fun Run/Walk ..................................... 38

Speaker Evaluations link for NY PDH Hours: http://tinyurl.com/EvalSp16

NEWEA/NYWEA Spring Technical Conference & Exhibition
Mystic Marriott
Groton, CT
June 5–8, 2016
We are now Mott MacDonald

Hatch Mott MacDonald in the United States is Mott MacDonald. We are now aligned with our global operations in Canada and throughout the world.

With 2300 staff in North America and 16,000 around the world, we are better positioned than ever before to meet your challenges with creativity and innovation.

www.mottmac.com/americas

Transportation  
Water and environment  
Oil and gas  
Power  
Building and facilities
Monday, June 6, 2016

8:00 am–9:00 am

Opening Session with Breakfast
(Breakfast served 7:30am–8:30am)
(Grand Ballroom)

8:00 am–8:30 am

Welcome Address
Ray Willis III, NEWEA President
Joseph Fiegl, NYWEA President
Rob Klee, Commissioner of Connecticut’s Department of
Energy and Environmental Protection (DEEP)

8:30 am–9:00 am

Keynote Address, Heather Goldstone
NPR Environmental Reporter
Heather Goldstone is science correspondent for WCAI, the
Cape and Islands NPR Station and WGBH Radio, Boston’s NPR
Station, and host of Living Lab, a weekly live interview show about science and culture. She holds a PhD in
ocean science from M.I.T. and Woods Hole Oceanographic Institution, and has spent a decade as an active
researcher. Heather’s reporting about scientific and environmental issues on Cape Cod has appeared on NPR,
PBS News Hour, The Takeaway, and PRI’s The World.
In 2014, she was named WGBH’s Margret and Hans
Rey/Curious George Producer for her wide-ranging curiosity in reporting. Most recently, Heather hosted the
blog Climatide, an exploration of how climate change is impacting coastal life in the region.

Heather’s Facebook page says it all: Ocean-lover, scientist-turned-journalist, host of Living Lab Radio –
conversations at the intersection of science and culture.

Session 1: Utilities of the Future (Mystic Salon D)

Contact Hours: 1.5 Wastewater

Moderators
Charles Wilson, Hazen and Sawyer; John Scheri, Hatch Mott McDonald

9:15 am

National Association of Clean Water Agencies (NACWA) – Utilities of the Future
Adam Krantz, Chief Executive Officer
Clean water agencies have been increasingly embracing and implementing innovative approaches and
technologies related to energy production, water reuse, green infrastructure, non-traditional partnerships,
and more, to improve environmental performance while lowering costs and increasing revenue and helping
boost the local economy. This triple-bottom-line approach is at the heart of the Utility of the Future (UOTF)
initiative and is rapidly spreading throughout utilities of all sizes across the nation. Discussed during
this presentation will be the NACWA/WER/WERF/WateReuse Blueprint for Action that researches and
communicates better ways to operate and maintain your utility. The presentation will also explore statutory
and regulatory challenges to becoming the Water Sector of the Future.

9:45 am

How the Internet of Things Can Help Communities Better Manage Urban Stormwater Impact
Jamie Lefkowitz, Marcus Quigley, OptiRTC, Inc.
Advances in low cost, internet accessible controller systems and wired and wireless communications enable
continuous monitoring and adaptive control of stormwater Best Management Practices (BMPs). Continuous
data provides unprecedented, real-time performance information and adaptive control provides an opportunity
to optimize the full pollutant load reduction and stormwater harvesting potential of both green and gray
stormwater infrastructure. This new technology results in more efficient design and retrofit of stormwater
BMPs, leading to greater compliance with increasingly stringent regulatory requirements.
Comprehensive Sampling Program in Support of a Large New Jersey LTCP

10:45 am

Timothy Groninger, Francisco Brilhante, HDR Engineering; Bridget McKenna, Passaic Valley Sewerage Commission

The Passaic Valley Sewerage Commission (PVSC) leads a consortium of utilities and municipalities in northern New Jersey that facilitates compliance with new CSO-related permit requirements. PVSC is the largest utility in the consortium and serves 47 municipalities within their 150-square-mile district. This presentation provides an overview of the field sampling and water quality modeling program being undertaken by the group, and discusses the challenges of collaborative long-term CSO planning.

How Including the Public Helped in Developing a Stormwater Utility

11:15 am

Nancy Gallinaro, Justin Pellerin, City of Portland, Maine

To meet federal requirements, the City of Portland created a stormwater utility to address combined sewer overflows and aging stormwater infrastructure. Working closely with a task force of public representation, a method was created that was fair and equitable. Discussion will include the development of the utility and outreach campaign, the challenges and results. Details of how the task force recommendations helped guide the development and the methodology for the outreach campaign will be covered.

Lunch

11:45 am–1:30 pm

(Mystic Salon E)

Contact Hours:

- 2.0 Engineer
- 2.0 Wastewater

Moderators: Robert DeGiorgio, D&B Engineers; David Van Hoven, MWH Global

Force Main and Trunk Line Sewer Installation/Rehabilitation

9:15 am

Kevin Shannon, Sandra L. Tripp, GHD

East Pennsboro Township, Pennsylvania, constructed a new force main from the Southwest Pumping Station and upgraded the Southeast Trunk sewer in order to provide adequate conveyance capacity for additional wastewater flows from Wormleysburg Borough. A mix of open cut replacement and trenchless technologies were designed and utilized during construction due to state highway conflicts and areas where structures and significant fill had been placed over/near the existing sewer line.

Managing Boston’s Investments in Buried Infrastructure through Systematic Evaluation of Condition and Risk

9:45 am

Jacob Peck, CH2M; Chase Berkeley, Boston Water & Sewer Commission

The Boston Water & Sewer Commission (BWSC) recently completed a project to implement a systematic and robust approach to managing its wastewater and storm drainage assets in order to promote reliable system performance. This included a goal to establish a baseline condition assessment for its sanitary sewer system by inspecting 90 miles of pipe each year. CH2M supported this effort by developing and implementing assessment and risk tools that help BWSC make informed decisions.

Coffee Break

10:15 am–10:45 am

(Grand Ballroom)
**10:45 am**  
**Designing, Permitting and Constructing Wastewater Treatment Improvements and Sewer System Expansions**  
Mark Thompson, Kleinfelder, Inc.

In June of 2013 Kittery, ME, voters approved a $12 million Capital Improvement Plan (CIP) to make improvements at its WWTF and pumping stations, and expand its sewer system. The WWTF improvements comprised the third upgrade in 20 years. The sewer system expansion, which provides opportunities for economic development and ends reliance on troublesome septic systems, included several design, permitting, and construction challenges. Construction and start up was completed in early 2016.

**11:15 am**  
**Sewer Trunkline Repairs and Stream Stabilization**  
Anthony Eagan, Richard Straut, Barton and Loguidice

Collapse of 54-inch hand laid brick sewer constructed in the 1880s leads to re-establishment of a sewer easement, lining and hardening, relocation of approximately 1,200 LF of stream and partial dam breach to protect the sewer from future failures associated with elevated streamflows in a laterally confined channel. Project includes hardening of infrastructure within a floodplain to protect from future storm events.

**11:45 am–1:30 pm**  
**Lunch (Grand Ballroom)**

---

**Monday, June 6, 2016**

**Session 3: Process Efficiency and Cost Saving Measures (Mystic Salon A)**

**Contact Hours:**  
2.0 Engineer  
1.5 Wastewater

**Moderators**  
Fotios Papamichael, Gannett Fleming, Ken Kohlbrenner, Woodard & Curran

**9:15 am**  
**ECM: Pro-active Energy/GHG Reduction Measures for the Future**

Robert Pape, Gabrielle Moore, Jane Atkinson, AECOM; Tami Lin and Anthony Fiore, NYCDEP

Energy conservation and GHG reductions do not need to end after the ECMs are constructed. The next step down the road to energy neutrality includes the powerful institutional control of SOPs and guidelines for energy evaluation during design and construction of all future projects. These controls can be incorporated to fit specific municipality demands yet result in an effective implementation of energy efficiency in all future projects – both large and small.

**9:45 am**  
**Reducing the Risks of Climate Uncertainty on Water**

Frances Bui, Lauren Klonsky, Kirk Westphal, CDM Smith;  
Daniel Johnson, Metropolitan North Georgia Water Planning District

CDM Smith worked with the MNGWPD to assess potential impacts of climate uncertainty on water resources in Greater Atlanta. The goal was not to predict climate conditions, but to understand which water resources are vulnerable to shifts in climate trends, and to differentiate between adaptive measures that should be initiated and those that should wait for a specific trend to trigger action. This resulted in a cost-effective plan that can be integrated into planning efforts.

**10:15 am–10:45 am**  
**Coffee Break (Grand Ballroom)**
How the Application of Spectrophotometry to Optimization of Aeration and Disinfection Saved 25 Percent of the Energy in a 10 MGD Plant

Robert Dunbar, Nathan Klinkhammer, Chris Russo, ZAPS Technologies

Electronic instrumentation in wastewater treatment is improving rapidly; new technologies are coming fast that enable operators to get more out of their existing basins, pumps and blowers. The savings from the reduction in energy, chemicals and labor are extraordinary, however, the real benefit lies in the understanding of the treatment process through the real-time data available to the operators running the plant and engineers designing plant upgrades.

Struvite Control, Polymer Reduction and Cake Dryness Improvement with Energy Efficient Process – HydroFLOW

Douglas L. Miller, Douglas L. Miller Consulting; Tal Journo, Chuck Glessner, HydroFLOW-USA

The HydroPATH technology powering HydroFLOW devices is over 20 years old but has not been applied to the wastewater treatment industry. Pilot testing for the reduction and removal of struvite fouling, reduction of polymer use and improvement of dewatered cake solids have proved very positive. This presentation will describe the status of the current success in pilot testing in these areas. This technology is very cost effective, energy conservative and environmentally sustainable.

Monday, June 6, 2016

Session 4: Managing Stormwater through Green Infrastructure (Mystic Salon D)

Contact Hours: 2.0 Engineer 1.0 Wastewater

Moderators
Jennifer Johnson, Nitsch Engineering, Inc.; Brian Skidmore, Barton and Loguidice

Narragansett Bay Commission Stormwater Mitigation Program

Stephen Lallo, Narragansett Bay Commission

In 2003, the Narragansett Bay Commission (NBC) instituted a Stormwater Mitigation Program to reduce the discharge of stormwater into the NBC’s sanitary sewage system. The program objective of reducing stormwater discharges to the collection system is achieved by requiring developers and building contractors in the NBC district to develop Stormwater Management Plans and implement plan findings. Results of the seven most recent award-winning projects presented with NBC Stormwater Management Awards will be showcased.

Green Infrastructure/Stormwater Management Requirements in the City of Buffalo (A Mixed CSS and MS4 System)

Rosaleen Nogle, Buffalo Sewer Authority

Combined sewer systems are specifically exempted from stormwater permits, however, sediment and other pollution can be deleterious to and stormwater consumes capacity within the wastewater collection and treatment systems. This presentation will address how the Buffalo Sewer Authority has recently sought to formerly address ambiguity in regulations and permits regarding Municipal Separate Storm Sewer Systems (MS4), Combined Sewer System (CSS) and Stormwater Discharges from Construction Activities in a partially separated system.

Coffee Break (Grand Ballroom)
3:30 pm  Enhancing New York City’s Public Spaces with Stormwater Management
Dahlia Thompson, Liza Faber, Hazen and Sawyer; Kevin Dahms, Adriana Kocovic, NYCDENP
New York City Department of Environmental Protection and Hazen and Sawyer are working together to plan, design and construct green infrastructure practices on city-owned properties throughout Brooklyn and Queens in support of the City’s green infrastructure implementation plan. This presentation will discuss the constraints in the planning and design of green infrastructure on 14 properties that include school yards, parks and housing projects that are currently being worked on.

4:00 pm  Biofiltration for Advanced Green Infrastructure Stormwater Treatment
Daniel Bourdeau, Julia Keay, Geosyntec Consultants
An innovative biofilter was engineered and constructed to treat low level contamination in stormwater runoff from impervious areas on a portion of a former federal government energy research facility in the Simi Hills of Ventura County, California (Site). The presentation will focus on: (1) a summary of the bench scale study used in the media selection; (2) the design components of the biofilter system; (3) construction lessons learned; and, (4) a summary of performance data.

Monday, June 6, 2016
Session 5: Digestion at the Water Resource Recovery Facility (Mystic Salon E)
Contact Hours: 2.0 Engineer    2.0 Wastewater

Moderators
Amy Anderson, ARCADIS; Nancy Struzenski, Alpha Analytical, Inc.

1:30 pm  Net Zero at the Danbury, Connecticut WPCF
Brian Messner, Steve Hallowell, Wright-Pierce
The City of Danbury is planning to reduce its carbon footprint by harvesting energy from water pollution control facility (WPCF) solids and supplemental fats, oils, greases (FOGs) collected from the community. These waste streams will be processed in the WPCF’s anaerobic digesters to produce biogas, which will fuel a cogeneration system that will provide electricity and heat for plant operations. The ultimate goal of the project is to achieve energy independence for the WPCF.

2:00 pm  The Path to Resource Recovery through Enhanced Primary Treatment
Alex Wright, ClearCove Systems
A facility in upstate New York will be installing the ClearCove Harvester technology with the goal of transforming into a resource recovery facility and renewable energy hub. The facility will also be importing waste from food processors, smaller wastewater treatment facilities, and other generators of organic waste nearby. This presentation will give an update on the project progress, discuss the resource recovery hub concept and the role of the Harvester technology.

2:30 pm–3:30 pm  Coffee Break (Grand Ballroom)

3:30 pm  Energy and Resource Recovery Strategies for the Green Bay Metropolitan Sewerage District
Jay Surti, Peter Burrowes, CH2M
The Green Bay Metropolitan Sewerage District (GBMSD) is implementing a state-of-the-art solids treatment process to address aging infrastructure, processing capacity limitations and stringent regulations. The improvements will also help advance GBMSD’s sustainability goals by recovering energy from wastewater solids to meet a significant portion of the treatment plant electricity and heating needs. This paper will present the most optimum alternative selected based on various energy recovery permutations to maximize meeting current and future energy needs.
Rome Regional Anaerobic Digestion Facility – Small, Medium or Large?
George Bevington, Gerhardt LLC; Dennis Clough, Energy Systems Group; Rick Kenealy, Rome WPCF; Richard Straut, Barton & Loguidice
The Rome (NY) Water Pollution Control Facility has been in continuous operation since the early 1930s. This presentation focuses on options considered by the City of Rome to repurpose their existing anaerobic digestion facility to accept organic waste. The economics of three development scenarios will be explained that were used by City officials to make the best environmental and business decision for system users, both existing and new to create a Utility of the Future.

Tuesday, June 7, 2016
Session 6: Sustainable Design 1 (Mystic Salon D)

Contact Hours: 2.0 Engineer 1.5 Wastewater

Moderators
Will Stradling, Siewert Equipment; Jeff Cantwell, Flow Assessment Services

9:00 am Decentralized Wastewater Collection and Advanced Treatment Technology:
A Case Study in Christiansburg, Ohio
Julie Barown, Wes Anderson, Tyler Molatore, Orenco Systems; Brice Schmitmeyer, Access Engineering Solutions
The Village of Christiansburg, Ohio, was experiencing serious issues with its onsite wastewater systems. In 2012, the Ohio EPA detected high levels of fecal bacteria in a nearby creek, prompting village leaders to seek a cost-effective wastewater solution. Given the community’s small size (500 residents) and modest median income (about $34,000), the question was – how? Detailed information on this decentralized, highly efficient, low-cost, and easily maintainable system will be presented.

9:30 am Decision Analysis for Project Phasing Using Real Options Tools
Geoff Baldwin, CDM Smith
As wastewater treatment plants make the shift to becoming water resource recovery facilities, they will need to install novel process changes. Even with testing it can be difficult to estimate the appropriate level of investment. This presentation will demonstrate how engineering decisions can be made in the absence of complete data by utilizing optionality and progressive design in a mathematically rigorous manner to prevent over or under investment.

10:00 am–11:00 am Coffee Break (Grand Ballroom)

11:00 am Waterfront Structures Resiliency
Dominica Stasiak, CH2M
Traditional concrete and steel waterfront structures corrode quickly in salt water environments and also do not create habit for marine life. Scientists and engineers are now finding that building with alternative green materials is not only good for the environment but in working with nature we can expand the life of these waterfront structures and provide protection for sea level rise and floods. This presentation will describe typical waterfront construction and recent green solutions that are being used to better this construction.
11:30 am  | The Town of Groton, Connecticut Looks to the Future: Upgrades to the WPCF Effluent Pump Station and WPCF Resiliency
Effluent from the Town of Groton, Connecticut WPCF originally discharged via gravity to Mumford Cove, but due to water quality concerns this original discharge point was abandoned, and it is now pumped a distance of over four miles to the Thames River through the Effluent Pump Station. Improvements to this 25-year old facility are currently in design, and in addition to providing a 50 percent increase in capacity, also include implementing WPCF facility-wide resiliency and hardening measures.

Tuesday, June 7, 2016
Session 7: Nutrient Removal 1 *(Mystic Salon E)*

<table>
<thead>
<tr>
<th>Contact Hours:</th>
<th>2.0 Engineer</th>
<th>2.0 Wastewater</th>
</tr>
</thead>
</table>

**Moderators**
Timothy Vadney, Wright Pierce; Rosaleen B. Nogle, Buffalo Sewer Authority

9:00 am  | Assessing Surface Water Nutrient Impacts and Implications on Wastewater Removal
Andrew Thuman, Richard Isleib, Thomas Gallagher, Cristhian Mancilla, HDR
Numeric nutrient criteria (NNC) are a reality today and many states have NNC or are in the process of developing them. Although the reasons for NNC are clear, the ability to effectively eliminate deleterious nutrient effects can be hampered by: nutrient sources that will take decades to reduce; factors other than nutrient loading; or natural conditions that may prevent attainment of designated uses. This presentation will highlight three nutrient loading projects that address these issues.

9:30 am  | The Grand Experiment for Great Bay Estuary: Confirming Whether TN Control is Justified
William Hall, John Hall, Benjamin Kirby, Hall & Associates
In 2014, the State of New Hampshire, in conjunction with the Great Bay Municipal Coalition, hosted an independent peer review which confirmed that existing data did not demonstrate TN was significantly impacting the system ecology. The peer review recommended that communities implement voluntary TN reductions and monitor the system response to confirm whether or not TN reduction was necessary. This presentation discusses the results of the “grand experiment” which confirmed TN reduction produces no water quality benefits for the system.

10:00 am–11:00 am | Coffee Break *(Grand Ballroom)*

11:00 am  | Disinfection Alternatives for New York City WRRFs
Krish Ramalingam, John Fillos, Xin Xu, The City College of NY; Allen Deur, Mauro Orpianesi, NYCDEP
New York City Department of Environmental Protection (NYCDEP) has set up a pilot scale disinfection facility at the Hunts Point Wastewater Treatment Plant. Chloramination as an alternative to chlorine was studied by The City College of NY at the pilot. Factors affecting chlorine dosage and demand, chemical and species distribution were studied. Additionally, data from other New York City WRRFs were compared.

11:30 am  | Evaluation of Nitrogen Removal Technologies at Port Jervis, NY WWTP
Rodrigo Pena Lang, Magdalena Gasior, Dvirk and Bartilucci Consulting Engineers; Paul Smith, NYCDEP
To meet the new stringent nitrogen limits required by Delaware River Basin Commission (DRBC), various nitrogen removal technologies were evaluated. This presentation will provide an overview of nitrifying and denitrifying technologies that were considered to meet the new DRBC limits at the Port Jervis WWTP. The presentation will outline how the deep trickling filters for nitrifications and deep sand filters for denitrification were chosen as the selected processes.

12:00 pm–1:30 pm | Lunch *(Grand Ballroom)*
Tuesday, June 7, 2016

Session 8: Public Awareness  *(Mystic Salon A)*

**Contact Hours:** 2.0 Wastewater

**Moderators**
Tom Posella, Koester Associates; Ken Carlson, Woodard & Curran

**9:00 am**

**Captain Plunger to the Rescue: How New Bedford Transformed Their IPP and FOG Program Using Outreach and Technology**
Shawn Syde, CDM Smith; Zeb Arruda, Ronald Labelle, Wayne Perry, City of New Bedford Department of Public Infrastructure
As a result of an AO, New Bedford has taken the opportunity to modernize their IPP program and implement a FOG program. Initiatives include developing and implementing a FOG program; enhanced public outreach and education program focusing on high school and elementary school students, and partnering with local non-profit organizations; and, utilizing a newly implemented CMMS system and GIS data with mobile tablet technology for electronic field data capture and streamlining of reporting and documentation.

**9:30 am**

**The City of Groton, Connecticut’s Public Awareness Campaign in Support of WWTF Improvements and the Mashantucket Pequot Tribal Nation’s WWTF Water Reuse Success Story**
Stephen Seigal, Tighe & Bond; David Drobiak, Mashantucket Pequot Tribal Nation
This presentation will describe the efforts of two local area wastewater treatment facilities to address two very different issues. The first topic describes the successful efforts that the City of Groton took to garner public support for the $6 million upgrade project currently under construction. The second topic describes the Mashantucket Pequot Tribal Nation’s WWTF reuse program in which treated effluent is used for golf course irrigation.

**10:00 am – 11:00 am**

**Coffee Break (Grand Ballroom)**

**11:00 am**

**Developing an Effective Public Outreach Strategy to Pass a Sewer Referendum in Enfield, Connecticut**
Jay Sheehan, Woodard & Curran; Tom Arnone, Town of Enfield, Connecticut
The Town of Enfield sought to address its sewer system capital improvement needs and change its funding structure to a user fee plan. To earn public support, the Town implemented a diverse public outreach strategy, which engaged the community in the decision-making process and educated users of improvements to the sewer program. This presentation will share how Enfield’s public outreach campaign succeeded in passing a $36 million sewer referendum while similarly scaled referenda were defeated.

**11:30 am**

**The Evolution of Framingham, Massachusetts’ Public Awareness Program**
Kerry Reed, Jim Barsanti, Town of Framingham, MA
When significant investment was needed for the Town’s infrastructure, Framingham Public Works recognized public awareness would be critical to garner community support. We’ve used multiple methods to inform our residents, businesses and local leaders about what infrastructure improvements are needed, how they will be accomplished, and what long-term benefits they will provide. This presentation will describe how our public awareness program began and evolved, what methods we’ve used, which methods worked, and which did not.

**12:00 pm – 1:30 pm**

**Lunch (Grand Ballroom)**
Tuesday, June 7, 2016

Session 9: Reductions in Greenhouse Gas Emissions (Mystic Salon B)

Contact Hours: 2.0 Engineer 1.5 Wastewater

Moderators
Dan Durfee, CDM Smith; Glen Knecht, Casella Organics

9:00 am  Optimizing the Use of Digester Gas with Gas Blending Systems‡
Megan Messmann, Chris Korzenko, CDM Smith; Igor Katsnelson, NYPA
This presentation will summarize a design-build, Construction Manager at Risk project that included improvements of existing anaerobic digester gas (ADG) collection and distribution systems to optimize the beneficial reuse of the digester gas in the onsite boilers while reducing greenhouse gas emissions. The project included gas blending and boosting equipment to maximize the use of the digester gas as fuel and provide a more stabilized operation of the boiler plants.

9:30 am  Year-long Study of Nitrous Oxide, Methane and Carbon Dioxide Emissions from Biological Nitrogen Removal‡
Elizabeth Brannon, Serena Moseman-Valtierra, University of Rhode Island; James McCaughey, Narragansett Bay Commission
N2O, CO2, and CH4 emissions were quantified simultaneously on a bi-monthly basis from June 2014 to June 2015 from nitrogen removal tanks (integrated fixed film activated sludge) at the Narragansett Bay Commission’s Field’s Point facility in Providence, RI. Potential relationships with water and tank parameters were also investigated. Preliminary results indicated that CO2 fluxes were greatest followed by N2O and CH4. All fluxes were dynamic between zones and N2O and CH4 varied seasonally.

10:00 am – 11:00 am  Coffee Break (Grand Ballroom)

11:00 am  Green House Gas Emissions Reduction and Energy Efficiency Strategies for New York City’s WWTPs to Meet Deep Carbon Reduction Goals‡
Jane Atkinson, AECOM; Tami Lin, NYCDEP
In its work toward meeting PlaNYC and OneNYC sustainability goals, DEP has worked diligently to reduce its Green House Gas (GHG) emissions. This presentation will discuss the energy management strategies and GHG reduction projects that DEP employed to achieve these reductions, including energy audits, data collection and baselining efforts, operational adjustments and GHG reduction projects.

11:30 am  Sustainable Energy Planning Update at the Narragansett Bay Commission
Barry Wenskowicz, Narragansett Bay Commission
Recent progress towards managing the Narragansett Bay Commission’s (NBC) consumption of fossil fuel-based energy will be presented including actions to: 1.) Quantify improvements in the historic normalized energy consumption at major sites participating in USDOE’s Better Plants Program; 2.) Compare different approaches to securing at least several MWs of renewable power from offsite sources; and 3.) Review recent onsite research that informs NBC’s voluntary carbon footprint determination.

12:00 pm – 1:30 pm  Lunch (Grand Ballroom)
Tuesday, June 7, 2016

Session 10: Sustainable Design 2 (Mystic Salon D)

Contact Hours: 2.0 Engineer 1.5 Wastewater

Moderators
Cynthia Baumann, CDM Smith; Emery Myers, MWH Global

1:30 pm  Green Infrastructure Design and Flood Mitigation in Westchester County
Rob DeGiorgio, D&B Engineers & Architects; Steve Pappalardo, Village of Scarsdale
The Village of Scarsdale, NY, Westchester County has led the way in flood mitigation and green infrastructure design. Five projects were recently designed, constructed and operated to help with flood mitigation and improve water quality. The projects include a 1,500-square-foot rain garden with water re-use, a 30,000-square-foot constructed wetland, a second 3,000-square-foot rain garden, two large dry detention flood storage centers and the conversion of an ornamental pond to a storm water detention/flood mitigation. The presentation will review the design metrics, construction costs and overall benefits.

2:00 pm  Targeted Study Reveals Effective Approach to Improving and Rehabilitating “Squircle” Clarifiers
Erik Osborn, Woodard & Curran; Aaron Fox, Lowell Regional Wastewater Utility
Faced with the challenge of rehabilitating their decades-old secondary clarifiers, the Lowell Regional Wastewater Utility (LRWU) took the opportunity to study what they really needed. Each of LRWU’s existing clarifiers consists of a circular collector mechanism in a square tank – a reliable design with some drawbacks. LRWU targeted improvements using field testing, mechanical investigations and a structural survey to plan a cost-effective approach. Utilities with similar arrangements will benefit from the results of LRWU’s study.

2:30 pm–3:30 pm  Coffee Break (Grand Ballroom)

3:30 pm  Ellenville WWTP Upgrades and the Greening of the Hudson Valley
Donald Fletcher, Richard Straut, Barton & Loguidice, D.P.C.
River flooding and increased I&I lead to energy efficient upgrades of the Ellenville Wastewater Treatment Plant. Upgrades included demolishing the existing 0.8 MGD RBC plant that was flooded in 2007 and replacing with a 1.1 MGD SBR plant including sustainable design and resiliency improvements to ensure continued operation through major storm events. Upgrades included photovoltaic cells, geothermal heating and effluent heat recovery. The presentation will include other energy improvements implemented in the design and upgrade.

4:00 pm  Gravity Belt Thickeners and The Big Picture
Howard Matteson, CDM Smith; Sol Posada, NYCDEP
A review of historical sludge loading provided current and future treatment requirements for the sludge thickening improvements at the Oakwood Beach Wastewater Treatment Plant. NYCDEP and CDM Smith considered the big picture and were able to identify improvements that will improve thickening, improve performance, reduce energy consumption and address sustainability goals.
Tuesday, June 7, 2016
Session 11: Residuals (Mystic Salon E)

Contact Hours: 2.0 Engineer 2.0 Wastewater

Moderators
Tom Schwartz, Woodard & Curran; Joe Palomene, Sherwood Logan & Associates

1:30 pm Impacts of On-Site Treatment of Food Waste to New York City’s Sewer Collection System and Wastewater Treatment Plants
Brian Como, Robert Sharp, Stephen Cluff, Hazen and Sawyer; Keith Beckmann, NYCDEP
New York City calls for a 90 percent reduction of food waste from food serve establishments (FSEs). To meet this reduction, FSEs are to find alternatives to their disposing of food waste in landfills. One option is on-site treatment of food waste; non-biological systems, in-vessel composters, and biological digestion/liquefaction. As some on-site food waste treatment produces an aqueous discharge, a study was performed to determine its characteristics and potential impacts on the sewer system and wastewater treatment plants.

2:00 pm Food Waste Digester Construction
Brian Paganini, Quantum BioPower; Michael Curtis, Nerac, Inc.
Quantum BioPower has created the region’s first food-waste digester located in Southington, Connecticut. The facility is designed to integrate advanced technology in the waste and energy space in the form of waste to fuels, chemicals, and electricity production. The facility, under construction this spring will process nearly 40,000 tons of food waste annually, produce a ‘salable’ soil amendment and deliver a continuous 1.1 MW to the grid.

2:30 pm–3:30 pm Coffee Break (Grand Ballroom)

3:30 pm Developing a Beneficial Reuse Market for Class A Biosolids – A Case Study in the Challenges and Successes with the Start-up of the Rensselaer County Sewer District’s New Biosolids Facility
Shelagh Connelly, Chris Cooper, Resource Management, Inc.; Brian Hilts, CDM Smith; Gerry Moscinski, Rensselaer County SD #1
Throughout the northeast WRRFs are looking for ways to reduce their biosolids processing costs. Many are considering Class A biosolids to meet this goal. This presentation provides a background on the new Class A biosolids dryer facility in Rensselaer County, NY, and discusses the differences in the anticipated and actual product characteristics and how those challenges were overcome; discusses the economics of developing a market for the product; and, presents the ultimate benefits observed from utilizing the biosolids product.

4:00 pm Advantages of Modern Septage Receiving Stations
Michelle Harrod, Jay Morrison, Flowpoint Environmental Systems
As communities grow and demand on their septage hauling programs increase, many municipalities are looking to install or modernize their septage receiving stations to gain more control over their system. By implementing an automated septage receiving station, municipalities are able to enforce safer and more sanitary receiving techniques, as well as increasing security for both the site and the waste treatment facilities they serve. Where once systems might have had no way to enforce regulations regarding the composition and content of loads, modern septage receiving stations can allow municipalities to maintain these standards by using monitoring equipment at the station itself and automating the billing and auditing process.
Tuesday, June 7, 2016

Session 12: Global Climate Change *(Mystic Salon A)*

**Contact Hours:** 2.0 Engineer 1.5 Wastewater

**Moderators**
Tim Clayton, Holland Company; Katherine Goyette, Kleinfelder

1:30 pm  
**Statewide Cooperation in Preparing for Climate Change at Rhode Island’s Wastewater Treatment Facilities**
Jan Greenwood, Woodard & Curran;  
William Patenaude, Rhode Island Department of Environmental Management

By their very nature, wastewater facilities are sited in flood prone areas. In Rhode Island, as elsewhere, increasing storm intensities have damaged wastewater treatment plants and pump stations. The State’s Department of Environmental Management responded with an assessment of the threat of climate change on wastewater infrastructure, including identifying mitigation strategies. This presentation will review the successes and challenges of the resulting partnerships and outline how the study can be implemented elsewhere.

2:00 pm  
**Updating Design Guidelines for Storm Resiliency**
Thomas Groves, Michael Jennings, New England Interstate Water Pollution Control Commission (NEIWPCC)

Throughout the world, extreme storm events are growing in frequency and force. Hurricanes and blizzards threaten the operation of wastewater infrastructure and in some cases the infrastructure itself. Consequently wastewater facilities should be made more resilient though preparedness planning and physical upgrades. Doing so, in the most cost-effective way, is the subject of this design guide update and associated supplement to NEIWPCC’s 2011 edition of its *Guides for the Design of Wastewater Treatment Works (TR16).*

2:30 pm–3:30 pm  
**Coffee Break (Grand Ballroom)**

3:30 pm  
**Managing Climate Change Risks**
Tom Noble, Kathleen McAllister, Horsley Witten Group, Inc.

Scientists agree; the climate is changing. Stronger storms in combination with aging infrastructure cause wastewater utilities to experience damage. Exact climate change impacts are uncertain, but a utility can still plan and take action. One way is through an adaptive management approach that complements current planning cycles and can help to manage climate change risks. This presentation will explain a five-step approach and will include examples from local communities to illustrate each step.

4:00 pm  
**Evaluation of Mitigation Measures for Coastal Flooding in Newport, Rhode Island**
Peter Von Zweck, Greg Brenner, CH2M; Julia Forgue, City of Newport

Two low-lying coastal areas in Newport are experiencing an increase in surface flooding caused solely by tidal fluctuations. They also experience flooding when precipitation events coincide with high tides. Unabated, these flooding issues will only worsen over time. To identify mitigation measures, the City recently completed a drainage study of these areas. The scope of the study included field work, hydrologic modeling, evaluation of short- and long-term mitigation measures, and a significant public involvement program.
Tuesday, June 7, 2016

Session 13: The Stormy Awards (Mystic Salon B)

Contact Hours: 2.0 Engineer

Moderators
Zach Henderson, Ginny Roach, Rob Robinson (New England Stormwater Collaborative Co-Chairs)

1:30 pm – 4:30 pm

“Best Stormwater Ideas in New England”
Municipal 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, NEAPWA and NEWEA, awards exceptional ideas that are changing that situation. This session will highlight the “Best Stormwater Ideas in New England” with three presentations from the award-winning programs in 2015 about simple, effective ways to boost funding, capacity or political support for stormwater programs.

• Town of Shelburne, VT, for “Development of Regional Inter-municipal Stormwater Programs”
  Tom DiPietro and Chris Robinson, Town of Shelburne, VT
• Boston Water and Sewer Commission for “Leveraging Boston School System Master Planning for Green Infrastructure Implementation”
  Katherine England, Boston Water and Sewer Commission
• Connecticut River Watershed Council for “Integration of Art and Science for Stormwater Program Outreach”
  Val Partyka, SUEZ North America; Andrew Fisk, Connecticut River Watershed Council; Colleen Kelley, Hitchcock Center for the Environment

Wednesday, June 8, 2016

Session 14: Low Impact Development (Mystic Salon D)

Contact Hours: 2.0 Engineer 0.5 Wastewater

Moderators
James Barsanti, Town of Framingham, Massachusetts; James Wancho, PS&S Integrated Services

9:00 am
Green Infrastructure for Flood Reduction?
Case Studies in Modeling Green Infrastructure for Flood Mitigation
Kate Mennemeyer, Dan Wible, Michelle Hollander, CH2M
As communities are confronted with the challenges of aging infrastructure, climate resiliency, and increased flooding, green infrastructure (GI) is increasingly explored as a compliment to traditional storage and conveyance strategies for flood mitigation. The results of planning analyses and hydrologic/hydraulic modeling completed in Alexandria, VA and Radnor Township, PA, will demonstrate how green infrastructure can be used to enhance or replace grey infrastructure to achieve flood reduction goals.

9:30 am
Pontilly Stormwater Project, New Orleans: Tailor-Made Green Infrastructure
Jessica Fosbrook, CDM Smith
The New Orleans Redevelopment Authority (NORA)’s Pontilly Stormwater Project is a comprehensive plan for alternative stormwater mitigation using green infrastructure to reduce flooding due to frequent rain events. Localized flooding from frequent storm events is a problem for residents of New Orleans. Green infrastructure, in a variety of styles and sizes, is being implemented to alleviate this in the Pontchartrain and Gentilly Woods neighborhoods, two areas hit hard by Hurricane Katrina.

10:00 am – 10:30 am
Coffee Break (Mystic Salon C/F)
10:30 am  Laboratory Study on Optimization of Green Stormwater Infrastructure (GSI) System Configurations and the Applicability to GSI Retrofits for Highway Runoff
Iulia Barbu, Kate Mignone, AECOM; Anne Bastoni, Massachusetts Department of Transportation
Historically, Green Stormwater Infrastructure (GSI) technologies have been predominantly used for runoff management in urban areas, and to a lesser extent for transportation projects. This presentation will cover a bench-scale study conducted at the University of New Hampshire Stormwater Center (UNHSC) for the optimization of the texture of media for meeting improved removal efficiencies in a smaller footprint. The filter media results aided in AECOM integrating design of seven green infrastructure retrofits for a MassDOT-owned highway.

11:00 am  Decentralized Treatment Network Helps the City of Marathon, Florida Win the Race to Meet Advanced Water Treatment Requirements
James Steffen, Evoqua Water Technologies
The city of Marathon lies in the middle of the Florida Keys in Monroe County. Marathon, like many cities in the Keys, had historically utilized septic fields and cesspools for a majority of their wastewater disposal and treatment. However due to the lack of actual soil and high groundwater tables, little treatment was being accomplished. More recently, advanced treatment units and a traditional secondary treatment plant had been installed. These facilities were not efficient enough to adequately remove the nitrogen and phosphorus increasingly causing degradation in the local waters. Following the state of Florida requirements for advanced water treatment (AWT) facilities by 2010, Marathon, as part of the Keys Wastewater Plan, decided to move forward in developing a plan to comply with these rules.

Wednesday, June 8, 2016
Session 15: Nutrient Removal 2 (Mystic Salon E)
Contact Hours:  2.0 Engineer  2.0 Wastewater

Moderators
Lauren Hertel, Stantec; Elena Proakis Ellis, City of Melrose, MA

9:00 am  Evaluating and Improving Clarifiers: We’ll Never Stop Learning!
John Esler, Clarifier Performance Evaluations, Inc.
The design of clarifiers has evolved tremendously. A simple design for a 30/30 effluent is usually insufficient to meet today’s requirements. How has the design community responded to this need? With ingenuity and invention! In our experience with over 200 full-scale field evaluations, we have been able to learn what is working … and what doesn’t work as desired. This presentation will discuss with examples the present status of current clarifier designs.

9:30 am  Strategies for Dealing with Lower Phosphorous and Metals Limits
Austin Weidner, Frederick Mueller, Ian Catlow, Tighe & Bond Consulting Engineers
While new technologies have allowed reductions in effluent phosphorus over an order of magnitude in the 20 years, practical cost-effective metals removal strategies must rely on a variety of approaches in order to meet the new metals limits targeted in regulators permits. This presentation will provide an overview of strategies and community experiences, successes and failures that need to be considered before and after receiving a low metal permit limit.

10:00 am–10:30 am  Coffee Break (Mystic Salon C/F)
10:30 am  Permitting and Process Flexibility Using the VOM Process Provide Cost-effective Nitrogen Removal for Warren, Rhode Island
Paul Dombrowski, Jonathan Himlan, Woodard & Curran;
Joseph Haberek, Angelo Liberti, State of Rhode Island DEM
The Warren WWTF faced the combination of needing additional flow capacity and meeting year-round nitrogen limits. The Town and Rhode Island Department of Environmental Management (RIDEM) collaborated to develop a cooperative and flexible Rhode Island Pollutant Discharge Elimination System (RIPDES) permit that allowed the town to develop a cost-effective treatment process upgrade. The selected process is the Variable Operating Mode process that allows use of a number of BNR configurations to provide the appropriate level of treatment and capacity to meet the permit and design conditions.

11:00 am  Monticello, New York – Readiness for Economic Development and Its Future
Richard Straut, Anthony Eagan, Barton & Loguidice, D.P.C.
The Village of Monticello, is seeking to upgrade its sewer collection and treatment systems to reduce I&I and replace an aged plant as a result of Consent Orders and make equipment replacements for Energy Efficiency at the Wastewater Treatment Plant. Upon receipt of a revised Docket from the Delaware River Basin Commission, much of the collections system work was suspended due to the increased nutrient removal requirements within the Docket and subsequent SPDES Permit.

Wednesday, June 8, 2016
Session 16: Emerging and Current Issues in Water Quality (Mystic Salon A)
Contact Hours: 2.0 Engineer 2.0 Wastewater

Moderators
Jamie Saxe, GA Fleet; Tom Sgroi, Greater New Haven WPCA

9:00 am  The Reduction of Certain Contaminants of Emerging Concern
by the GPC Process in the Final Effluent at a Water Resource Recovery Utility
Michael McGrath, Holmes and McGrath
This presentation will discuss a new process to reduce emerging contaminants of concern, also known as pharmaceuticals and personal care products, in treated wastewaters.

9:30 am  Studies to Determine Impact of New Enterococcus Criteria on Disinfection Operations
and Other Plant Effluent Criteria
Robert Sharp, Manhattan College; Keith Mahoney, Laura Grieco, NYCDEP; Sarah Galst, Hazen and Sawyer
New York is considering changing the regulated effluent pathogen indicator for wastewater treatment discharge permits from of Fecal Coliforms to Enterococcus. To prepare for such a change in regulations, a series of pathogen inactivation studies were undertaken to determine if higher doses of chlorine and dechlorination will be needed to meet the new criteria. Studies were carried out on four different plant effluents and included wet weather flows and impacts of low ammonia and/or high nitrite. Finally, peracetic acid inactivation studies were also conducted to determine the effectiveness of this alternative disinfectant compared to chlorine.
10:30 am  New Innovation – Disinfection
Leaders Innovation Forum for Technology (LIFT) Disinfection Work Group
Lola Olabode, Allison Deines, Water Environment Research Foundation
Changing regulatory landscapes combined with recent questions about emerging pathogens is causing many WRRFs to reconsider how they disinfect. This presentation will outline the drivers underlying the recent focus on disinfection including chlorine by-product limits, bacteriophage criteria and lessons-learned from Ebola. An overview will be provided of research on disinfection technologies such as peracetic acid, UV and others. Finally, the team will share emerging technologies identified through LIFT.

11:00 am  Green Energy at a Wastewater Treatment Plant in Western Massachusetts:
An Operator’s Perspective and Lessons Learned
Pamela Westgate, Al Wells, Kleinfelder, Inc.; Carl Shaw, City of Pittsfield, Massachusetts
Renewable energy and efficiency projects at the Pittsfield, MA, WWTP are a 2 MW solar array, an aeration upgrade from mechanical surface aerators to diffused air and turbo blowers, and the installation of a CHP system to use gas from the sludge anaerobic digester. In this presentation we will describe the systems and the actual costs and savings experienced to date, as well as the lessons learned and operational challenges of operating the CHP system.
Serving the Water and Wastewater Treatment Industry in New York and New Jersey

WASTEWATER SCREENING
Multi Rake Front Cleaning Screens - Mahr® Bar Screen – Washer Compactors – Headworks Inc

WASTEWATER BIOLOGICAL TREATMENT AERATION /UV
EDI Coarse - Medium - Fine Bubble Diffusers – Membrane & Ceramic - Environmental Dynamics Inc
Blowers-Positive Displacement – Turbo-Regenerative – Sliding Vane – United Blower, Inc
MBBR & IFAS – Headworks Bio
Disinfection- Glascos Ultraviolet

WASTEWATER MONITORING AND CONTROL

WASTEWATER TREATMENT CLARIFICATION
Rectangular & Circular Clarifiers – Solids Contact – Plate Settler – Monroe Environmental Inc

TERTIARY FILTRATION - WATER REUSE - PHOSPHOROUS REMOVAL - Disk Filtration – NOVA Water Technologies

BIOLICAL TREATMENT/ BNR
Conceptual engineering design - equipment fabrication – Sequencing Batch Reactors SBR - AWI Technologies

GRANULAR MEDIA FILTRATION

WASTEWATER MIXING

CONTROLS AND INSTRUMENTATION

SLUDGE DEWATERING – THICKENING- CLARIFICATION-FILTERATION-SOLIDS CLASSIFICATION-SEPARATION
Belt Press 1-3 Meters - Table Thickener - Low Flow Belt Press – Phoenix Process Equipment Company

PUMPING & GRINDING
Engine Driven and Electric Driven Pump Around and Bypass Pumping Systems – Pumping Services Inc
Vertical Turbine- End Suction - American-Marsh Pumps
Wastewater Grinders – TR-Muncher - Moyno

MOTOR CONTROL & STARTING EQUIPMENT
Variable Frequency Drives - Motor Soft Start Equipment Danfoss North America Inc

MATERIALS HANDLING

DECANTER CENTRIFUGE – Flows 15 – 400 GPM – Phoenix Process Equipment Company
THE PROBLEM:

A WWTF had an aging drive system in need of replacement

DOWN TIME WAS NOT AN OPTION!

THE SOLUTION:

Retrofit the existing enclosures in rotation, reusing the existing line & load side cabling, and the control system.
Keeping cash above the line, and nutrients below it.

Can cost-effective solutions conquer ever-tightening limits? We’re implementing performance strategies in some of the nation’s largest utilities, like Orange County Sanitation District. OCSD achieved complete nitrification—at full capacity—by modifying activated sludge operations. We’re helping clients stay above the line financially and environmentally.
NYWEA/NEWEA SPRING MEETING & EXHIBITION
JUNE 5-8, 2016 – Marriott Mystic Hotel, Groton, CT
EXHIBIT FLOORPLAN

Note: The floorplan is not drawn to scale. NYWEA/NEWEA reserve the right to adjust the floorplan as needed
Exhibitors

Be sure to visit the Exhibit Hall to meet the exhibitors and see new products and services!

Monday, June 6  7:30 am – 7:00 pm
Tuesday, June 7  8:00 am – 5:30 pm

ACF Environmental provides innovative site development solutions, specializing in Stormwater Management, LID and Green Infrastructure Solutions, as well as Earth Stabilization, Perimeter, Sediment & Erosion Control. (800) 223-9021. ljones@acfenv.com, www.acfenv.com  Booth #45

ADS Environmental Services: Flow metering and depth monitoring and alarming equipment, software and service. (203) 257-3224. MBonomo@indexcorp.com, www.adsenv.com  Booth #29

Advanced Drainage Systems, Inc., a leading producer of corrugated HDPE pipe, provides water management solutions throughout diverse construction markets. Our focus is customer-critical issues, including cost-efficiency, installation ease and performance. (978) 302-0650. aaron.cheever@ads-pipe.com, www.ads-pipe.com  Booth #5

AFTEK, Inc. is a premium supplier of separation technologies, equipment and supplies to the process industries, industrial and municipal water and waste water markets for over 25 years. AFTEK, Inc. is headquartered in Rochester, NY, with warehouses in Rochester and Auburn, NY, and offices in Greenwich and Delmar, NY. (585) 458-7550. krustie@earthlink.net, www.aftekfilters.com  Booth #34

Blake Equipment is a distributor and manufacturer’s representative of pumps, equipment, parts and service. We also provide design assistance to provide Peak Performance Solutions for water and wastewater projects. The Blake Group represents HOMA, Cornell, Myers, Goulds, Crane Pumps, CSI Controls, Pulsed Hydraulics Inc., QuantumFlo and more. (860) 986-1072. ray.bahr@bghusa.com, www.bghusa.com  Booth #48

Boerger specializes in reliable and cost effective Rotary Lobe Pumps and Macerating Technology for the conveyance of low to high viscous and abrasive materials. (612) 435-7300. pma@boerger.com, www.boerger.com  Booth #14

Carlsen Systems is a manufacturers’ representative firm serving the water and wastewater market in New England, New York, and New Jersey (203) 663-1314. cburmeister@carlsensystems.com, www.carlsensystems.com  Booth #49

Casella Organics provides residuals management services, including processing, beneficial use and disposal of biosolids. (207) 347-3600. patrick.ellis@casella.com, www.casella.com  Booth #47

CiDRA’s SONARtrac™ clamp-on flow meter is not an ultrasonic meter. It is a reliable, repeatable passive sonar meter with flow rate accuracy ±1% of reading. Fits pipe sizes 2 to 60 inches. It is easy to install, requires no calibration or maintenance. (203) 265-0035. jpoplawski@cidra.com, www.cidra.com  Booth #9

CUES is the world’s leading manufacturer of closed circuit television video (CCTV) inspection, rehabilitation, pipe profiling equipment and asset inspection/decision support software for sanitary and storm sewers, industrial process lines, and water lines. (800) 327-7791. rsheridan@cuesinc.com, www.cuesinc.com  Booth #15
David F. Sullivan & Associates, Inc. We are a New England-based rep firm promoting leading process equipment suppliers including Evoqua/CoMag and BioMag, Evoqua/RJ Environmental, Grundfos, BDP, Duperon, EDI, Flottweg, Medora (SolarBee), and WesTech. (603) 474-2484. mikesullivan@davidfsullivan.com, www.davidfsullivan.com  

Booth #42

DN Tanks specializes in the design and construction of AWWA D-110 prestressed concrete storage tanks for potable water, wastewater, chilled water and other liquids. DN Tanks is the largest producer of wire- and strand-wound prestressed concrete tanks with multiple types of tank designs. (781) 246-1133. chris.hodgson@dntanks.com, www.dntanks.com  

Booth #3

Duke’s Root Control does it all, providing the best chemical root control product available, applied by the most professional crews in the industry. (315) 472-4781. lynn@dukes.com, www.dukes.com  

Booth #36


Booth #26

Environmental Operating Solutions, Inc. (EOSi) provides a line of proprietary carbon sources, MicroC®, as well as process solutions for biological nutrient removal (BNR). (508) 322-3101. jhorenstein@microc.com, www.microC.com  

Booth #32

Erdman Anthony, for over 60 years, has provided infrastructure engineering and support services to private industry and government clients in the eastern United States. Our comprehensive capabilities include civil and site engineering, transportation engineering, facilities engineering, construction services, and geospatial services. The firm is 300 professionals strong and 100% employee owned. (716) 631-1241. ziemianskidj@erdmananthony.com, www.erdmananthony.com  

Booth #17

EST Associates, Inc. (EST) is an environmental services company providing safe, reliable, and cost effective collection system services including: open channel flow monitoring, telemetry systems, water quality monitoring, manhole inspections, CCTV investigations, and related field services. Contact: John Carlin, 51 Fremont Street, Needham, MA 02494, (781) 455-0003, jcarlin@estassociates.com, www.estassociates.com  

Booth #39

ETA Process Instrumentation is a manufacturer’s representative for industrial instrumentation, analyzers, flow measurement and safety serving the New England. Sales, service, repair, calibration, commissioning and start up. Featuring Draeger gas detection – sensors that last 2 to 3 times longer than all others due to patented technology. (978) 532-1330. sales@etapii.com, www.etapii.com  

Booth #31

Flow Assessment Services LLC is the area’s largest independent flow service provider. Specializing in open-channel flow measurement, FAS provides collection system information that provides data for infiltration/inflow, capacity, billing, CSO, SSO, and pump station performance. (610) 918-3857. jcantwell@flowassessment.com, www.flowassessment.com  

Booth #43

GA Fleet Associates Centrally located in the New York metropolitan area, GA Fleet Associates serves municipal, building trades, transit, and after market clients with single-source responsibility for providing the appropriate equipment, systems, direction, and service to their projects. (914) 548-6062. sumur@gafleet.com, www.gafleet.com  

Booth #21
Think Fleet First.

SIXTY YEARS. THOUSANDS OF PROJECTS. COUNTLESS DETAILS. WE HAVE YOU COVERED.

gafleet.com

We manage water from start to finish.
GNA Ltd. In association with Steinhardt GmbH, a leader in the design and manufacture of state of the art CSO and stormwater equipment, presents the Hydrosel & Hydrosel GS, Hydroguard, Hydroflush & Autoflush flushing systems; Hydroslide & Electroslide constant flow regulators; Hydroclean fine brush screen; Hydroswitch pollutant control, Hydrobend bending weir; Hydromesi Particle Separator, Hydrostyx, Hydropass & Hydrocheck. (514) 336-5454. gnovac@gnasco.com, www.gnasco.com

Booth #12

Ground Penetrating Carbon, Inc. designs and sells the GPC Filter Process. The GPC Filter Process substantially reduces nitrogen, pharmaceuticals and other CECs in the effluent of pretreated tertiary wastewater. (508) 548-3564. bhughes@groundpenetratingcarbon.com, www.GroundPenetratingCarbon.com

Booth #18

Harper Control Solutions, Inc. Over 100 years of experience, Harper Control Solutions, Inc., has been providing solutions for the wastewater and the water industry. Manufacturer representative, Cla-Val, Vent-Tech, JRG & FMS, Custom Control Panels. (203) 964-1900. TKuehnel@HarperValves.com, www.harpervalves.com

Booth #27

Harper Haines Fluid Control. Valves, valve service, equipment & engineering strategy, water and wastewater applications. Representing quality: Val-Matic, Cla-Val, EFI factory built pump stations, Lynn vacuum priming systems and Wey valves. Focused on durability and reliability in water control throughout New York, New Jersey and New England. You call, we roll. (203) 693-3740. fhaines@harper-haines.com

Booth #2

Hydra-Numatic Sales serving New York, New Jersey, Pennsylvania and now Connecticut for 60 years, we have provided technical assistance to engineers and municipalities with water and wastewater equipment solutions. (973) 769-2199. mwhelan@hnscompany.com, www.hydranumatic.com

Booth #22

IDEXX Laboratories, Inc. IDEXX provides easy, rapid, accurate and cost-effective microbiological testing solutions that ensure water quality in drinking, waste and recreational waters and is supported by a team of experts. (207) 556-3091. Jamie-Brunelle@idexx.com, www.idexx.com

Booth #44

IPS, servicing the industry for the past 30 years, is a stocking distributor of Goulds, Paco, ARO, Summit, Roots, A.W. Chesterton and many other quality products. In addition to pump and motor repair, our service center offers machining, precision balancing, alignment services, 24-hour field service and custom fabricated systems. (401) 297-6482. joe.dias@IPSpump.com, www.ipsPump.com

Booth #8

Lane Enterprises is a national leader in the manufacture and supply of stormwater drainage products. Offering HDPE pipe for storm sewers, aluminum and steel buried bridge structures, as well as a vast array of sub-surface stormwater management options. For assistance, contact Geordon Evans 518-207-5661. (518) 885-4385. gevans@lane-enterprises.com, www.lane-enterprises.com

Booth #16

Lystek International Inc. is an organic materials recovery firm that is helping reduce waste, costs, odors and greenhouse gas emissions through its innovative approach to biosolids and organics management. (508) 463-5444. jbelcastro@lystek.com, www.lystek.com

Booth #28

Mechanical Solutions, Inc. (MSI), A New England manufacturers’ representative for high quality and efficient pumps, mixers, conveyors and chemical feed systems. (860) 290-1564. gmacdonald@msipump.com, www.msipump.com

Booth #19
New England Water Group is an inflow and infiltration inspection and assessment company utilizing the newest digital and acoustic technology to identify infiltration points in your collection system for your CMOM compliance program. (866) 526-6558. michelleh@newatergroup.com, www.newatergroup.com  Booth #23

NozzTeq® We believe that the maintenance of public infrastructure is a high calling. We support those who do this vital work by inventing, selling and servicing the highest quality, best performing Tier 3 sewer nozzles available, and we work with our customers to ensure they get maximum value from their investment in jetting equipment on site. (856) 535-1861. info@nozzteq.com, www.nozzteq.com  Booth #6

Oldcastle Precast North America’s leading producer of precast concrete structures. Providing a full line of Civil Engineered products, including stormwater management solutions. Oldcastle’s OneLift pump station is a pre-packaged system for sewage and stormwater transfer that provides time/cost savings. OneLift is “Turnkey”, it is provided with all interior equipment including pumps and controls. (860) 810-7808. jeancaron@oldcastle.com, www.oldcastleprecast.com  Booth #33

Orenco Systems® designs and manufactures leading-edge municipal low pressure sewer collection systems (Orenco Sewers) and municipal treatment facilities (AdvanTex Municipal Treatment) for existing municipalities and new construction, custom control panels, and composite buildings, vessels and enclosures. (541) 459-4449. jbarown@orenco.com, www.orenco.com  Booth #11

Pioneer Pump Systems, Inc. offers engineered products for municipal wastewater to include: pumps, influent screens, belt filter presses, centrifuges, motors, VFDs and controls. (315) 453-1766. marc@pioneerpumps.com, www.pioneerpumps.com  Booth #25

PMC is a leading manufacturer of fully submersible pressure transmitters specifically designed for depth and level measurements of groundwater, wastewater and sea water. Typical applications are small size bore holes, wells, dams, irrigation, sewage lift stations, rivers and oceanography. Titanium housing is standard on many of our VersaLine series transmitters which provides immunity to virtually all environments, especially brackish or sea water, or other chemicals unsuitable for stainless steel. The standard polyurethane vented cable is molded to the transmitter providing the highest integrity, waterproof assembly well proven in thousands of installations worldwide. (203) 792-8686, sborchardt@pmc1.com, www.pmc1.com/  Booth #41

PSI Process and Equipment offers a full range of water and wastewater pumping and treatment process solutions to the metro New York, northern and central New Jersey regions. We offer sales, engineering support, shop repair, testing, field service and rental services from our 45,000-square foot facility located in Middlesex, NJ. (347) 563-0766. david.silverman@psiprocess.com, www.psiprocess.com  Booth #37

RARITAN GROUP: Wholesale suppliers to the municipal and industrial markets since 1943; comprised of Raritan Pipe & Supply (pipe, valves, fittings, accessories, fabrication) and Raritan Valve & Automation (valves, actuators, controls, valve automation, field retrofit and repair services). (732) 985-5000. bill@raritanvalve.com, www.raritangroup.com  Booth #30

Resource Management Inc. (RMI) is the Northeast’s leader in innovative management strategies for agriculture, gravel pit operators, compost operations, landscapers and municipalities. We provide innovative and responsible turnkey recycling services for generators of organic waste. (603) 520-2877. john.lahey@rmirecycles.com, www.rmirecycles.com  Booth #38
Righter Group, Inc. are representatives of Tnemec Industrial Coatings, producers of high performance coatings and lining for the wastewater industry, specializing in high performance concrete and steel coating systems. (800) 533-3003. lmitkus@rightergroup.com, www.rightergroup.com

SCAVIN Equipment is an acronym for Sewer Cleaning and Video Inspection Equipment. Delivering innovative technologies for sewer cleaning and pipe inspection professionals. (860) 944-8340. jgotchis@scavinequip.com, www.scavinequip.com

StormTrap is committed to providing customizable and cost-effective stormwater management solutions to owners, engineers, and municipalities. (815) 941-4549. bholmes@stormtrap.com, www.stormtrap.com

Strategic Water ReSources’s Neptune CF is as chemical free oxygenation technology that uses singlet oxygen (01) to remove biological and chemical contaminants. (860) 287-4549. chris.logel@watersr.com, www.watersr.com

Ted Berry Company, founded in 1972, is family-owned and operated to provide services to both municipalities and industry throughout New England. The company operates a number of service groups which provide municipal utility services, industrial cleaning services, trenchless pipe rehabilitation, and internal robotic CCTV inspection services of underground pipelines. (207) 752-0119. peter.goodwin@tedberrycompany.com, www.tedberrycompany.com

Thermo Fisher Scientific Visit us to learn about our range of solutions for wastewater analysis spanning in-line and lab electrochemistry meters, analyzers and spectrophotometers. We also feature water purification technologies for your Type I, Type II, and RO needs. (617) 851-4555. margie.bower@thermofisher.com, www.thermofisher.com

Total Control System Services, Inc. features data delivery systems, hands off flow metering. Don’t chase the flow data, solve the problems. Instrumentation and calibration services. Manufacturers Rep for Hach Flow. (800) 541-2522. markb@totalcontrolnys.com, www.totalcontrolnys.com

Viatran, Manufacturing pressure and level measurement solutions since 1965, our detachable level transmitters allow users to quickly and easily replace a transmitter without the work or worry of pulling the entire installed cable. (716) 629-3818. jim.borkowski@viatran.com, www.viatran.com

Victaulic is the originator and world’s leading producer of mechanical pipe joining solutions, including grooved fittings and couplings. Victaulic’s innovative piping systems, technologies and services put people to work faster while increasing safety, ensuring reliability and maximizing efficiency. (617) 549-4136. jeff.wells@victaulic.com, www.victaulic.com

Vogelsang manufactures heavy sludge pumping and grinding products. Rotary lobe pumps, inline rotary macerators and twin shaft grinders for viscous sludge containing heavy solids, abrasives and caustics. (330) 510-1598. mikec@vogelsangusa.com, www.vogelsangusa.com

Wells Tudor Environmental provides leading edge aeration design and technology for wastewater treatment. The Wells Tudor Aerator is an efficient and effective aeration system designed to improve wastewater plant performance, lower maintenance costs, with easy installation and multi-functionality. (716) 634-3741. jstark@wtenvironmental.com, www.wellstudor.com
Cameron Engineering

Water and Wastewater • Emergency Preparedness & Resiliency • Stormwater Management • Planning & Environmental Analysis • Solid Waste • Sustainable Design & Resource Management • Mechanical & Electrical • Structural • Security & CCTV • Civil • Site Development & Landscape Architecture • Green Building & LEED Design • GIS • Traffic & Transportation • Construction Management

Celebrating Over 30 Years of Excellence in Planning & Engineering

LEED Accredited Professionals

Woodbury, NY  New York, NY  White Plains, NY

www.cameronengineering.com
### Guest Program

#### Monday, June 6, 2017

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 am–9:00 am</td>
<td>Join us for Breakfast during the Opening Session <em>(Grand Ballroom)</em></td>
</tr>
<tr>
<td>9:30 am–4:00 pm</td>
<td><strong>Monday Excursion</strong>&lt;br&gt;For those who are not playing golf, we have planned an excursion which includes a private tour of the Pink House ($10 admission), Mrs. Bridges' Pantry – an old English Tea House for a Dutch Treat lunch (please bring your best tea hat!), and a tour of the Taylor Brooke Winery. Transportation will be through carpooling among the group.</td>
</tr>
<tr>
<td>12:00 pm</td>
<td><strong>Golf Tournament</strong> <em>(Stonington Country Club)</em>&lt;br&gt;Join us at the Stonington Country Club as we tee off with a Shotgun Start. See separate flyer for further details on Golf Tournament. There are prizes and fun throughout the day!</td>
</tr>
<tr>
<td>5:30 pm</td>
<td><strong>NEWEA/NYWEA Reception</strong> <em>(Grand Ballroom)</em>&lt;br&gt;Join us at the NEWEA/NYWEA Reception and 5S Induction Ceremony in the Exhibit Hall.</td>
</tr>
</tbody>
</table>

#### Tuesday, June 7, 2016

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 am–8:30 am</td>
<td><strong>Breakfast</strong> <em>(Grand Ballroom)</em>&lt;br&gt;Meet for continental breakfast before the day's activities.</td>
</tr>
<tr>
<td>8:30 am–4:15 pm</td>
<td><strong>Guest Tour and Program</strong> <em>(Off-site, meet in Hotel lobby.)</em>&lt;br&gt;Our Guest Program begins with our traveling to a New London paint studio. There we will create our own 18&quot; x 20&quot; masterpieces. It is <em>not</em> paint by number, but just as easy!&lt;br&gt;The next stop will be for lunch at the Harbour House Restaurant, which features fresh, seasonal and local cuisine at the historic Inn at Mystic.&lt;br&gt;Our last stop will be at the Jonathan Edwards Winery in North Stonington for a private tour and tasting. This winery merges Napa Valley with New England to create their unique brand of wine.</td>
</tr>
<tr>
<td>4:30 pm–5:30 pm</td>
<td><strong>Operations Challenge Awards Reception</strong> <em>(Exhibit Hall)</em></td>
</tr>
<tr>
<td>6:00 pm</td>
<td>Board buses for Mystic Aquarium</td>
</tr>
<tr>
<td>7:00 pm–10:00 pm</td>
<td>Reception and Dinner, Mystic Aquarium</td>
</tr>
</tbody>
</table>

*Don’t forget – Guests of the hotel get a 20% discount at the Elizabeth Arden Red Door Spa!*

*Please contact Joy Lord for any questions regarding either Monday's excursion or Tuesday's Guest Tour and Program event. She can be reached at 207-353-6593 or jet-30@hotmail.com.*
## Special Events

### Sunday

**June 5, 2016**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:00 pm–7:30 pm</td>
<td>Joint NEWEA/NYWEA President’s Reception <em>(Mystic Ballroom A-B)</em></td>
<td>With Special Address by Congressman Joe Courtney</td>
</tr>
<tr>
<td>7:00 pm–10:00 pm</td>
<td>In the same room as President’s Reception</td>
<td>Boss Tweed, Water Ambassador and Past President Mike Garland’s band, will play during and after the President’s Reception. Boss Tweed features a mix of rootsy rock ‘n roll, rhythm &amp; blues and even a little country by musical greats such as NRBQ, Big Star, The Beatles, The Drifters, Ritchie Valens, Johnny Cash, Tom Petty and Elvis Costello.</td>
</tr>
</tbody>
</table>

### Monday

**June 6, 2016**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>5:30 pm–7:00 pm</td>
<td>Joint NEWEA/NYWEA Reception <em>(Grand Ballroom)</em></td>
<td>5S Ceremony</td>
</tr>
</tbody>
</table>

### Tuesday

**June 7, 2016**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 am–8:30 am</td>
<td>“Gadgets and Gizmos” is Back <em>(Mystic C Ballroom)</em></td>
<td>The Wastewater Collections System Committee is looking for operators to present a simple gadget or gizmo they’ve developed and use in their day-to-day operations. We’re looking for collections system operators to bring their device to share with the group. No PowerPoint presentations necessary, just a quick few minutes to show those in attendance how it works. Presenters of the top two gadgets will each receive a $50 gift card. The idea is to share some field pointers among friends at the Wastewater Collections System Breakfast to be held Tuesday morning at 7:30 am. Gadgets and gizmos will be presented from 7:30 am–8:00 am, followed by a Collections Systems committee meeting for planning the coming year from 8:00 am–8:30 am. Please contact Bob Albright, Wastewater Collections System Committee Chair, at <a href="mailto:ralbright@hazenandsawyer.com">ralbright@hazenandsawyer.com</a> to RSVP or with any questions.</td>
</tr>
<tr>
<td>12:00 pm</td>
<td>Water to Wine and Beer Too! The Wine, Water, Beer Nexus <em>(in Exhibit Hall)</em></td>
<td>Mike Bonomo, ADS; Ed McCormick, WEF Past President; and Jay Sheehan, Woodard &amp; Curran Water reclamation or reuse has been happening since the dawn of time. The water cycle as we learned in grade school is, by design, a water reuse scheme that nature has been executing brilliantly for millions of years. Shortly after the birth of mankind, wine, and later beer, were determined to be fine uses of water for the human family. The oldest-known winery was discovered in the “Areni-1” cave in Vayots Dzor, Armenia, dated to c. 4100 BC. In Mesopotamia (ancient Iraq), early evidence of beer is a 3,900-year-old Sumerian poem honoring Ninkasi, the patron goddess of brewing, which contains the oldest surviving beer recipe. Now, in the 21st century we are discovering that our water treatment process has become advanced enough to reuse in viniculture and even for brewing beer. But which is of greater value and will help draw the public into an increasing awareness of the work we do in the water reuse profession? Water to wine or beer? Well let the debate begin! This presentation will review water reuse technology at the Miner Family Winery in Napa, CA. Not only is their green system eco-friendly, economical and effective, they also make some fantastic wines. The beer brewing process uses much the same principles as wastewater treatment. Why not use the reused water that has gone through the treatment process through another brewing process and make a fine ale or lager! Audience participation will be encouraged and fine wines and PortaPotty Pale Ale from a local “sewer brewer” will be raffled as a fundraiser for Water For People.</td>
</tr>
<tr>
<td>6:00 pm</td>
<td>Board buses for Mystic Aquarium</td>
<td></td>
</tr>
<tr>
<td>7:00 pm–10:00 pm</td>
<td>Reception and Dinner, Mystic Aquarium</td>
<td>Join in the fun with your NEWEA/NYWEA cohorts at the Mystic Aquarium. It will surely be a memorable night!</td>
</tr>
</tbody>
</table>
Tuesday

12:45 pm  Bus departs Marriott  *(Meet in Hotel lobby.)*

1:00 pm–2:15 pm  **City of Groton WWTF**

*Registration required*

At the City of Groton WWTF, attendees will learn about and observe the methods that were used to restore extensively damaged concrete surfaces in enclosed tankage throughout the facility. They will also see the before pictures, work that’s been completed and in-progress, and learn about the specific coating systems used to achieve like-new conditions. This $4.5 million renovation project includes new laboratory space, digester improvements, and clarifier equipment upgrades. Attendees will also learn how plant staff have implemented a successful, low-cost cyclic aeration system for the removal of total nitrogen.

2:20 pm  Bus departs Groton

2:30 pm–4:15 pm  **Mashantucket Pequot Tribal Nation WWTF**

*Registration required*

At the Mashantucket Pequot Tribal Nation WWTF, attendees will see the design features that were included to minimize odors given its close proximity to the casinos. The plant was built with no exposed tankage making it unique and operationally challenging. The use of wet scrubbers in two different areas of the facility help to control odors in an effective manner. Of significance, attendees will have the opportunity to see the WWTF’s functioning reclaimed water system and talk with plant staff about the challenges of operating the system.

4:15 pm  Bus departs for Hotel

---

**Barton & Loguidice**

Engineers  
Environmental Scientists  
Planners  
Landscape Architects

New York • Pennsylvania • Maryland  
1-800-724-1070 • www.BartonandLoguidice.com

---

- Project Consultation
- Funding Program Assistance
- Asset Management and Training
- Collection, Pumping and Treatment
- Energy Optimization
- Process Evaluation and Optimization
- Green Technologies: Photovoltaic, Wind and Geothermal
- Facilities Planning and Preliminary Engineering Reports
- Operations Assistance/Troubleshooting
- Inflow/Infiltration Reduction Programs
THE TRUSTED SOLUTION

EQUIPMENT • SERVICE • PARTS • RETROFITS • DESIGN SUPPORT • INSTALLATION

Biological Treatment
Blowers
Chemical Feed
Clarification
Dewatering
Disinfection
Emergency Assistance
Filtration
Grit Removal

Instrumentation
Odor Control
Packaged Systems
Preventative Maintenance
Pump Station Maintenance
Pumping
Pumps
Pumps Stations
Remote Monitoring

Repairs
Screening
Sedimentation
Spare Parts Inventory
System Integration
Tanks and Mixers
Telemetry
Training
Valves

Supplying Equipment, Solutions and Service for Water and Wastewater

Upstate New York
3101 Seneca Turnpike
Canastota, NY 13032
Phone: (315) 697-3800
Fax: (315) 697-3888

NYC, Long Island, New Jersey
170 Kinnelon Road
Suite 37
Kinnelon, NJ 07405
Phone: (973) 492-0400
Fax: (973) 492-9581

Canada
Koester Water Unit #7
62 Plant Farm Blvd.
Brantford, ON N3S 7W3
Phone: (289) 696-7390

www.koesterassociates.com
sales@koesterassociates.com • service@koesterassociates.com • parts@koesterassociates.com
THE EVENTS

NEWEA/NYWEA
Regional Operations Challenge

June 6, 2016

Monday

2:30 pm
Team Meeting *(Grand Ballroom)*
Process Control Written Test
5S Awards and
NYWEA Golden Manhole Awards *(Grand Ballroom)*

5:30 pm–7:00 pm

Tuesday

8:00 am–9:00 am
Judges Meeting

9:00 am–3:00 pm
Operations Challenge Competition *(Grand Ballroom)*
Operations Challenge Sludge “Challenge”

3:00 pm–4:00 pm
Operations Challenge Sludge “Challenge”

4:30 pm–5:30 pm
Reception in Exhibit Hall / Operations Challenge Awards

6:00 pm–10:00 pm
Reception and Dinner, Mystic Aquarium *(Buses start at 5:45 pm.)*

Come and join in the excitement! Operators from across New England and New York State compete for the right to be champions and compete in the National Competition at WEFTEC in New Orleans, LA, in September. The first event kicks off at 9:00 am. Awards will be presented at the Awards Ceremony that evening. Come and see the best wastewater collection and treatment personnel in New England and New York display their skills.

Collection Systems:
Teams will cut out a section of 8” PVC sewer pipe with water flowing through it. A 4” saddle connection with gaskets will be installed on a pre-drilled piece of pipe on a separate stand. Teams will cut the 8” PVC replacement section with the saddle and install the section with flexible repair couplings. The team will also program a Hach AS950 sampler.

Lab Event:
Teams will analyze and determine pH and alkalinity using an Orion Star A211 pH Benchtop Meter and ammonia using a Thermo Scientific Orion™ AQUAfast™ AQ4000 Colorimeter. Values will be utilized as process control tools for operation of an aerobic wastewater treatment plant.

Process Control Event:
The process control event for the 2016 Operations Challenge will be substantially different from past events. The event will consist of two separate activities: A written test similar to what has been used in the past, and operation of treatment plant simulation software provided by Hydromantis. A third portion of the event, for bragging rights only, will be “Sludge Challenge” in which all teams compete in an oral question and answer format.

Pump Maintenance:
Teams will respond to a pump station pump failure by performing routine maintenance on a Godwin Dri-Prime® pump, positioning it at the lift station and installing suction and discharge hoses from the pump to the lift station inlet manhole and flanged force main tie-in gate valve. A level controller will be connected to the Godwin NC80 Dri-Prime® pump to allow for unattended operation (starting and stopping).

Safety Event Scenario:
While a facility crew is working, one of the workers collapses inside a manhole. The coworker is found at the bottom of a (confined space) lift station unconscious. It is suspected that he/she has been overcome with an unknown gas or lack of oxygen due to a worn 4” check valve gasket in the station. The in-plant rescue/repair team is immediately called to the scene. Two members of the team will enter the confined space, rescue the downed worker and repair the check valve.

Each event will be timed separately and all team members will be required to perform one task.
2016 NEWEA/NYWEA 29th Annual Operations Challenge
Second Regional Competition

New York WEA
LONG ISLAND
CHAPTER
Brown Tide
Jake Miller
Alec Breen
James Behr
Rob Jentz
Dale Grudier (Coach/Alternate)

MET CHAPTER
Jamaica Sludge
Hustlers
Robert Ferland
Ray Antenucci
Anthony Petrone
Yu-Tung Chan

MET CHAPTER
26th Ward
Unflushables
Michael Leone
David Taylor
Ellis Watson
Salvatore Scapelito

NYWEA NEW HAMPSHIRE
Seacoast Sewer
Snakes
Brian Farmer
Dustin Price
Sean Kehoe
Patty Chesebrough
Mike Carle (Coach)

Chesapeake WEA
Motley Poo
Brad Yeakle (Captain)
Wayne Rumbaugh
Jim Elliott
Kirk Parks
Jesse McAllister (Alternate)
Ellen Frketic (Coach)

GENESEE CHAPTER
Genesee Valley
Water Recyclers
Michael Burkett
Timothy Keegan Jr.
Justin Slentz
Robert Holland
Steven Reiter (Alternate)

NEWEA MAINE
Force Maine
Alex Buechner
(Captain)
Dan Laflamme
Scot Lausier
Ian Carter

New Jersey WEA
Devils
Ken Wuerker (Captain)
Josh Palombo
Mike McLauglin
Matt Preist
Art Cowan (Alternate)

MET CHAPTER
26th Ward
Unflushables
Michael Leone
David Taylor
Ellis Watson
Salvatore Scapelito

New Jersey WEA
Devils
Ken Wuerker (Captain)
Josh Palombo
Mike McLauglin
Matt Preist
Art Cowan (Alternate)

NEWEA RHODE ISLAND
Ocean State Alliance
Vinnie Russo
(Captain)
Eddie Davies
Sam Sullivan
Ryan Patnode
Mike Spring (Coach)

Virginia WEA
Team HRSD
Scott Mattice
(Captain)
Seth Blake
Keegan Ankofski
Jason Hobor
Justin Edwards
(Alternate)
Tim Scott (Coach)

2016 Operations Challenge Judge List

<table>
<thead>
<tr>
<th>EVENT</th>
<th>LAB</th>
<th>COLLECTION</th>
<th>PUMP</th>
<th>SAFETY</th>
<th>PROCESS CONTROL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coordinators</td>
<td>Mary Lee Santoro</td>
<td>Michael Smith</td>
<td>Nate Melanson</td>
<td>Andre Brousseau</td>
<td>Mike Harris</td>
</tr>
<tr>
<td></td>
<td>Bill Sedutto</td>
<td>Joseph Atkins</td>
<td>Kevin McCormick</td>
<td></td>
<td>Bob Wither</td>
</tr>
<tr>
<td></td>
<td>Dennis Palumbo</td>
<td></td>
<td></td>
<td>Martin Bunce</td>
<td>Paul Dombrowski</td>
</tr>
<tr>
<td>Judge</td>
<td>Roy Zimmerman</td>
<td>Howard Robinson</td>
<td>Dick Crescenzo</td>
<td>Maria Duran</td>
<td>Tanya Jennings</td>
</tr>
<tr>
<td>Judge</td>
<td>Bob Wither</td>
<td>Kevin Peterson</td>
<td>Tom Raihl</td>
<td>Joseph Massaro</td>
<td></td>
</tr>
<tr>
<td>Judge</td>
<td>Daniel Rowe</td>
<td>Charles Hemphill</td>
<td>Anthony Eagan</td>
<td>John Sansalone</td>
<td></td>
</tr>
<tr>
<td>Judge</td>
<td>Rick Noone</td>
<td></td>
<td>Ron Wade</td>
<td>Patrick Scanlon</td>
<td></td>
</tr>
<tr>
<td>Judge</td>
<td>Margie Bower</td>
<td></td>
<td>Pedro Rivera</td>
<td>Vincent Mingrone</td>
<td></td>
</tr>
</tbody>
</table>

Overall NYWEA Operations Challenge 2016 Coordinators

Overall Coordinators: Mike Burke, John Fortin
Score Keeping Judges: Travis Peaslee, John Fortin, Joe Massaro
Support Staff: Bill Grandner, Howard Robinson, Joe Massaro, Donna Bee
A Special Thanks to Donna Bee for the Regional Coordination
NYWEA’s Humanitarian Assistance Committee and NEWEA’s Water For People Committee are partnering on a Change Water Forever 5K fun run and walk to take place at the 2016 Joint NEWEA/NYWEA Spring Meeting in Groton, CT.

This unique run/walk will be held at the beautiful Bluff Point State Park and Coastal Reserve. Runners will be charged a $25 entrance fee (all proceeds from the race will be donated to Water For People). The first 25 people to register will be provided with a performance t-shirt.

Transportation will be on your own. We will be meeting at the Bluff Point State parking lot at 55 Depot Rd., Groton, CT 06340.

Join us for a great cause! The Run/Walk is open to all.

To Register: Sign up at Registration Desk.

Contacts:
Jessica Kretch, CDM Smith (NYWEA)  
T: 732.590.4648  
kretchja@cdmsmith.com

Anastasia Rudenko, GHD (NEWEA)  
T: 774.470.1637  
Anastasia.Rudenko@ghd.com
Thank You to Our Sponsors!

FLAGSHIP
CDM Smith
GA Fleet
GHD

BOW
D&B Engineers and Architects, PC

AFT
Barton & Loguidice
CH2M

STARBOARD
H2M architects + engineers
Harper Control Solutions, Inc.
NACWA
Vent-Tech SS Air Valves/HarperValves.com

OPENING SESSION
CDM Smith
GA Fleet
GHD

EXHIBIT COFFEE
CH2M
D&B Engineers and Architects, PC
GA Fleet
GHD
Harper Control Solutions, Inc.

Barton & Loguidice
CDM Smith
CH2M
D&B Engineers and Architects, PC
GA Fleet
GHD
NACWA
Vent-Tech SS Air Valves/HarperValves.com

PRESIDENT’S RECEPTION
Barton & Loguidice
CDM Smith
CH2M
D&B Engineers and Architects, PC
GA Fleet
GHD
NACWA
Vent-Tech SS Air Valves/HarperValves.com

TUESDAY RECEPTION
Barton & Loguidice
CDM Smith
CH2M
D&B Engineers and Architects, PC
GA Fleet
GHD
NACWA

TECH TOUR
CDM Smith

STUDENT EVENT
CDM Smith
D&B Engineers and Architects, PC
GA Fleet
GHD

GOLF TEES
ADS Environmental
AECOM
ARCADIS
Carlin Contracting Co Inc
D&B Engineers and Architects, PC
Dewberry
H2M architects + engineers
Homa Pump Technology
Victaulic

WEB SPONSOR PAGE
CDM Smith
CH2M
GA Fleet
GHD
H2M architects + engineers

MOBILE APP
GHD
H2M architects + engineers
<table>
<thead>
<tr>
<th>SPEAKER</th>
<th>E-MAIL</th>
<th>PHONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jane Atkinson</td>
<td><a href="mailto:jane.atkinson@aecom.com">jane.atkinson@aecom.com</a></td>
<td>917-670-5934</td>
</tr>
<tr>
<td>Geoff Baldwin</td>
<td><a href="mailto:baldwingg@cdmsmith.com">baldwingg@cdmsmith.com</a></td>
<td>718-594-6372</td>
</tr>
<tr>
<td>Iulia Barbu</td>
<td><a href="mailto:lulia.Barbu@aecom.com">lulia.Barbu@aecom.com</a></td>
<td>978-905-2715</td>
</tr>
<tr>
<td>Julie Barown</td>
<td><a href="mailto:jbarown@lorenco.com">jbarown@lorenco.com</a></td>
<td>518-281-9651</td>
</tr>
<tr>
<td>George Bevington</td>
<td><a href="mailto:george_bevington@nyicap.rr.com">george_bevington@nyicap.rr.com</a></td>
<td>518-332-0501</td>
</tr>
<tr>
<td>Daniel Bourdeau</td>
<td><a href="mailto:DBourdeau@geosyntec.com">DBourdeau@geosyntec.com</a></td>
<td>508-472-9538</td>
</tr>
<tr>
<td>Elizabeth Brannon</td>
<td><a href="mailto:ebrannon@my.uri.edu">ebrannon@my.uri.edu</a></td>
<td>978-400-1187</td>
</tr>
<tr>
<td>Frances Bui</td>
<td><a href="mailto:buifa@cdmsmith.com">buifa@cdmsmith.com</a></td>
<td>617-452-6288</td>
</tr>
<tr>
<td>Brian Como</td>
<td><a href="mailto:bcomo@hazenandsawyer.com">bcomo@hazenandsawyer.com</a></td>
<td>212-539-7167</td>
</tr>
<tr>
<td>Shelagh Connelly</td>
<td><a href="mailto:shelagh.connelly@rmirecycles.com">shelagh.connelly@rmirecycles.com</a></td>
<td>603-536-8900</td>
</tr>
<tr>
<td>Rob DeGiorgio</td>
<td><a href="mailto:rdegiorgio@dd-eng.com">rdegiorgio@dd-eng.com</a></td>
<td>914-467-5300</td>
</tr>
<tr>
<td>Paul Dombrowski</td>
<td><a href="mailto:pdombrowski@woodardcurran.com">pdombrowski@woodardcurran.com</a></td>
<td>203-605-1297</td>
</tr>
<tr>
<td>Robert Dunbar</td>
<td><a href="mailto:robert.dunbar@zaptechnologies.com">robert.dunbar@zaptechnologies.com</a></td>
<td>617-448-0440</td>
</tr>
<tr>
<td>Anthony Eagan</td>
<td><a href="mailto:aeagan@bartonandloguidice.com">aeagan@bartonandloguidice.com</a></td>
<td>845-391-8360</td>
</tr>
<tr>
<td>Donald Fletcher</td>
<td><a href="mailto:dfletcher@bartonandloguidice.com">dfletcher@bartonandloguidice.com</a></td>
<td>518-218-1801</td>
</tr>
<tr>
<td>Jessica Fosbrook</td>
<td><a href="mailto:fosbrookjr@cdmsmith.com">fosbrookjr@cdmsmith.com</a></td>
<td>650-353-0296</td>
</tr>
<tr>
<td>Nancy Gallinaro</td>
<td><a href="mailto:NEG@portlandmaine.gov">NEG@portlandmaine.gov</a></td>
<td>207-876-8817</td>
</tr>
<tr>
<td>Jan Greenwood</td>
<td><a href="mailto:jgreenwood@woodardcurran.com">jgreenwood@woodardcurran.com</a></td>
<td>401-427-1312</td>
</tr>
<tr>
<td>Timothy Groninger</td>
<td><a href="mailto:timothy.groninger@hdrinc.com">timothy.groninger@hdrinc.com</a></td>
<td>914-993-2098</td>
</tr>
<tr>
<td>Thomas Groves</td>
<td><a href="mailto:tgroves@neiwpcc.org">tgroves@neiwpcc.org</a></td>
<td>978-323-7929</td>
</tr>
<tr>
<td>William Hall</td>
<td><a href="mailto:bhall@hall-associates.com">bhall@hall-associates.com</a></td>
<td>202-463-1166</td>
</tr>
<tr>
<td>Michelle Harrod</td>
<td><a href="mailto:michelleh@midwestwatergroup.com">michelleh@midwestwatergroup.com</a></td>
<td>866-526-6558</td>
</tr>
<tr>
<td>Adam Krantz</td>
<td><a href="mailto:akrantz@nacwa.org">akrantz@nacwa.org</a></td>
<td>202-833-4651</td>
</tr>
<tr>
<td>Stephen Lallo</td>
<td><a href="mailto:slallo@narrabay.com">slallo@narrabay.com</a></td>
<td>401-461-8848</td>
</tr>
<tr>
<td>Jamie Lefkowitz</td>
<td><a href="mailto:jlefkowitz@optirtc.com">jlefkowitz@optirtc.com</a></td>
<td>603-801-1051</td>
</tr>
<tr>
<td>Virgil Lloyd</td>
<td><a href="mailto:vloyd@fando.com">vloyd@fando.com</a></td>
<td>860-646-2469 ext 5275</td>
</tr>
<tr>
<td>Howard Matteson</td>
<td><a href="mailto:mattesonhs@cdmsmith.com">mattesonhs@cdmsmith.com</a></td>
<td>732-590-4693</td>
</tr>
<tr>
<td>Michael McGrath</td>
<td><a href="mailto:mmcgrath@holmesandmcgrath.com">mmcgrath@holmesandmcgrath.com</a></td>
<td>508-548-3564</td>
</tr>
<tr>
<td>Kate Mennemeyer</td>
<td><a href="mailto:kate.mennemeyer@ch2m.com">kate.mennemeyer@ch2m.com</a></td>
<td>646-253-8578</td>
</tr>
<tr>
<td>Megan Messmann</td>
<td><a href="mailto:messmannmr@cdmsmith.com">messmannmr@cdmsmith.com</a></td>
<td>516-496-8400</td>
</tr>
<tr>
<td>Brian Messner</td>
<td><a href="mailto:brian.messner@wright-pierce.com">brian.messner@wright-pierce.com</a></td>
<td>207-761-2991</td>
</tr>
<tr>
<td>Douglas Miller</td>
<td><a href="mailto:dlmiller@maine.rr.com">dlmiller@maine.rr.com</a></td>
<td>207-318-1319</td>
</tr>
<tr>
<td>Frederick Mueller</td>
<td><a href="mailto:FAMueller@tighebond.com">FAMueller@tighebond.com</a></td>
<td>860-704-4768</td>
</tr>
<tr>
<td>Tom Noble</td>
<td><a href="mailto:tnoble@horsleywitten.com">tnoble@horsleywitten.com</a></td>
<td>508-833-6600</td>
</tr>
<tr>
<td>Rosaleen Nogle</td>
<td><a href="mailto:rnogle@sa.ci.buffalo.ny.us">rnogle@sa.ci.buffalo.ny.us</a></td>
<td>716-851-4664, ext 4219</td>
</tr>
<tr>
<td>Lola Olabode</td>
<td><a href="mailto:lolabode@werf.org">lolabode@werf.org</a></td>
<td>571-384-2100</td>
</tr>
<tr>
<td>Erik Osborn</td>
<td><a href="mailto:eosborn@woodardcurran.com">eosborn@woodardcurran.com</a></td>
<td>800-426-4262</td>
</tr>
<tr>
<td>Brian Paganini</td>
<td><a href="mailto:bpaganini@quantumbiopower.com">bpaganini@quantumbiopower.com</a></td>
<td>860-201-0621</td>
</tr>
<tr>
<td>SPEAKER</td>
<td>E-MAIL</td>
<td>PHONE</td>
</tr>
<tr>
<td>---------------------</td>
<td>-------------------------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>Robert Pape</td>
<td><a href="mailto:robert.pape@aecom.com">robert.pape@aecom.com</a></td>
<td>732-221-0350</td>
</tr>
<tr>
<td>Val Partyka</td>
<td><a href="mailto:val.partyka@suez-na.com">val.partyka@suez-na.com</a></td>
<td>413-534-2222</td>
</tr>
<tr>
<td>Jacob Peck</td>
<td><a href="mailto:jpeck1@ch2m.com">jpeck1@ch2m.com</a></td>
<td>207-602-8487</td>
</tr>
<tr>
<td>Rodrigo Pena Lang</td>
<td><a href="mailto:rplang@db-eng.com">rplang@db-eng.com</a></td>
<td>516-364-9890</td>
</tr>
<tr>
<td>Krish Ramalingam</td>
<td><a href="mailto:kramalingam@ccny.cuny.edu">kramalingam@ccny.cuny.edu</a></td>
<td>212-650-8492</td>
</tr>
<tr>
<td>Kerry Reed</td>
<td><a href="mailto:kr@framinghamma.gov">kr@framinghamma.gov</a></td>
<td>508-532-6015</td>
</tr>
<tr>
<td>Robert Robinson</td>
<td><a href="mailto:rrobinson@manchesternh.gov">rrobinson@manchesternh.gov</a></td>
<td>603-624-6526</td>
</tr>
<tr>
<td>Stephen Seigal</td>
<td><a href="mailto:seseigal@tighebond.com">seseigal@tighebond.com</a></td>
<td>508 471-9639</td>
</tr>
<tr>
<td>Kevin Shannon</td>
<td><a href="mailto:kevin.shannon@ghd.com">kevin.shannon@ghd.com</a></td>
<td>717-541-0622</td>
</tr>
<tr>
<td>Robert Sharp</td>
<td><a href="mailto:robert.sharp@manhattan.edu">robert.sharp@manhattan.edu</a></td>
<td>718-862-7169</td>
</tr>
<tr>
<td>Jay Sheehan</td>
<td><a href="mailto:jsheehan@woodardcurran.com">jsheehan@woodardcurran.com</a></td>
<td>855-347-6788</td>
</tr>
<tr>
<td>Domenica Stasiak</td>
<td><a href="mailto:Domenica.Stasiak@ch2m.com">Domenica.Stasiak@ch2m.com</a></td>
<td>646-253-8566</td>
</tr>
<tr>
<td>James Steffen</td>
<td><a href="mailto:james.steffen@evoqua.com">james.steffen@evoqua.com</a></td>
<td>262-388-0120</td>
</tr>
<tr>
<td>Richard Straut</td>
<td><a href="mailto:rstraught@bartonandloguidice.com">rstraught@bartonandloguidice.com</a></td>
<td>518-218-1801</td>
</tr>
<tr>
<td>Jay Surti</td>
<td><a href="mailto:jay.surti@ch2m.com">jay.surti@ch2m.com</a></td>
<td>973-316-3550</td>
</tr>
<tr>
<td>Shawn Syde</td>
<td><a href="mailto:sydestl@cdmsmith.com">sydestl@cdmsmith.com</a></td>
<td>401-457-0324</td>
</tr>
<tr>
<td>Dahlia Thompson</td>
<td><a href="mailto:dthompson@hazenandsawyer.com">dthompson@hazenandsawyer.com</a></td>
<td>212-539-7151</td>
</tr>
<tr>
<td>Mark Thompson</td>
<td><a href="mailto:mthompson@kleinfelder.com">mthompson@kleinfelder.com</a></td>
<td>617-498-4680</td>
</tr>
<tr>
<td>Andrew Thuman</td>
<td><a href="mailto:andrew.thuman@hdrinc.com">andrew.thuman@hdrinc.com</a></td>
<td>862-236-1709</td>
</tr>
<tr>
<td>Peter von Zweck</td>
<td><a href="mailto:peter.vonzweck@ch2m.com">peter.vonzweck@ch2m.com</a></td>
<td>617-626-7056</td>
</tr>
<tr>
<td>Austin Weidner</td>
<td><a href="mailto:adweidner@tighebond.com">adweidner@tighebond.com</a></td>
<td>484-529-7952</td>
</tr>
<tr>
<td>Barry Wenskowicz</td>
<td><a href="mailto:Barry.Wenskowicz@Narrabay.com">Barry.Wenskowicz@Narrabay.com</a></td>
<td>401-443-4968</td>
</tr>
<tr>
<td>Pamela Westgate</td>
<td><a href="mailto:pwestgate@kleinfelder.com">pwestgate@kleinfelder.com</a></td>
<td>860-258-7121</td>
</tr>
<tr>
<td>Alex Wright</td>
<td><a href="mailto:awright@clearcovesystems.com">awright@clearcovesystems.com</a></td>
<td>585-269-9176</td>
</tr>
</tbody>
</table>
Thank You to Our Supporters!

**ADVERTISERS**

<table>
<thead>
<tr>
<th>Company</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applied Dynamics</td>
<td>22</td>
</tr>
<tr>
<td>Barton &amp; Loguidice</td>
<td>34</td>
</tr>
<tr>
<td>Cameron Engineering</td>
<td>31</td>
</tr>
<tr>
<td>D&amp;B Engineers and Architects, PC</td>
<td>20</td>
</tr>
<tr>
<td>GA Fleet</td>
<td>27</td>
</tr>
<tr>
<td>GHD</td>
<td>Inside Back Cover</td>
</tr>
<tr>
<td>H2M architects + engineers</td>
<td>Back Cover</td>
</tr>
<tr>
<td>Harper Control Solutions Inc.</td>
<td>44</td>
</tr>
<tr>
<td>HDR</td>
<td>23</td>
</tr>
<tr>
<td>Koester Associates</td>
<td>35</td>
</tr>
<tr>
<td>Mott MacDonald</td>
<td>4</td>
</tr>
<tr>
<td>PSI Process &amp; Equipment – Pumping Services Inc.</td>
<td>21</td>
</tr>
</tbody>
</table>

**EXHIBITORS**

<table>
<thead>
<tr>
<th>Company</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ACF Environmental</td>
<td></td>
</tr>
<tr>
<td>ADS Environmental Services</td>
<td></td>
</tr>
<tr>
<td>Advanced Drainage Systems, Inc.</td>
<td></td>
</tr>
<tr>
<td>After, Inc.</td>
<td></td>
</tr>
<tr>
<td>Blake Equipment</td>
<td></td>
</tr>
<tr>
<td>Boerger</td>
<td></td>
</tr>
<tr>
<td>Carlsen Systems</td>
<td></td>
</tr>
<tr>
<td>Casella Organics</td>
<td></td>
</tr>
<tr>
<td>CIDRA</td>
<td></td>
</tr>
<tr>
<td>CUES</td>
<td></td>
</tr>
<tr>
<td>David F. Sullivan &amp; Associates</td>
<td></td>
</tr>
<tr>
<td>DN Tanks</td>
<td></td>
</tr>
<tr>
<td>Duke’s Root Control Inc.</td>
<td></td>
</tr>
<tr>
<td>EMS – New England</td>
<td></td>
</tr>
<tr>
<td>Environmental Operating Solutions, Inc.</td>
<td></td>
</tr>
<tr>
<td>Erdman Anthony</td>
<td></td>
</tr>
<tr>
<td>EST Associates, Inc.</td>
<td></td>
</tr>
<tr>
<td>ETA Process Instrumentation</td>
<td></td>
</tr>
<tr>
<td>Flow Assessment Services LLC</td>
<td></td>
</tr>
<tr>
<td>GA Fleet</td>
<td></td>
</tr>
<tr>
<td>GNA Ltd.</td>
<td></td>
</tr>
<tr>
<td>Ground Penetrating Carbon, Inc.</td>
<td></td>
</tr>
<tr>
<td>Harper Control Solutions, Inc.</td>
<td></td>
</tr>
<tr>
<td>Harper Haines Fluid Control</td>
<td></td>
</tr>
<tr>
<td>Hydra-Numatic Sales Co.</td>
<td></td>
</tr>
<tr>
<td>IDEXX Laboratories, Inc.</td>
<td></td>
</tr>
<tr>
<td>Industrial Pump Sales &amp; Service (IPS)</td>
<td></td>
</tr>
<tr>
<td>Lane Enterprises, Inc.</td>
<td></td>
</tr>
<tr>
<td>Lystek International Inc.</td>
<td></td>
</tr>
<tr>
<td>Mechanical Solutions, Inc.</td>
<td></td>
</tr>
<tr>
<td>New England Water Group</td>
<td></td>
</tr>
<tr>
<td>NozzTeq Inc.</td>
<td></td>
</tr>
<tr>
<td>Oldcastle Precast</td>
<td></td>
</tr>
<tr>
<td>Orenco Systems Inc.</td>
<td></td>
</tr>
<tr>
<td>Pioneer Pump Systems, Inc.</td>
<td></td>
</tr>
<tr>
<td>PMC</td>
<td></td>
</tr>
<tr>
<td>PSI Process &amp; Equipment</td>
<td></td>
</tr>
<tr>
<td>Raritan Group</td>
<td></td>
</tr>
<tr>
<td>Resource Management Inc.</td>
<td></td>
</tr>
<tr>
<td>Righter Group, Inc.</td>
<td></td>
</tr>
<tr>
<td>Scavin Equipment</td>
<td></td>
</tr>
<tr>
<td>Storm Trap</td>
<td></td>
</tr>
<tr>
<td>Strategic Water ReSources</td>
<td></td>
</tr>
<tr>
<td>Ted Berry Company, Inc.</td>
<td></td>
</tr>
<tr>
<td>Thermo Fisher Scientific</td>
<td></td>
</tr>
<tr>
<td>Total Control System Services, Inc.</td>
<td></td>
</tr>
<tr>
<td>Viatran</td>
<td></td>
</tr>
<tr>
<td>Victaulic</td>
<td></td>
</tr>
<tr>
<td>Vogelsang USA</td>
<td></td>
</tr>
<tr>
<td>Wells Tudor Environmental, LLC</td>
<td></td>
</tr>
</tbody>
</table>

Thanks so much
Call for Papers: 89th Annual Meeting
February 6–8, 2017

Here’s an opportunity! NYWEA’s largest technical conference and exhibition is held in NYC at the Marriott Marquis. This meeting attracts over 1,400 environmental professionals. We invite you to submit an abstract for one of the 20 technical sessions. This meeting also makes available space for 185 exhibits. Presenting a paper at this meeting gives you the opportunity to share your knowledge and be recognized in the field.

Deadline for abstracts is July 31, 2016.
# NEWEA Board of Directors and Committees

## 2016 NEWEA Officers

**Officers**

- **President** ................. Raymond Willis III
- **President-Elect** ............. James Barsanti
- **Vice President** .............. Janine Burke-Wells
- **Treasurer** .................... Priscilla Bloomfield
- **Past President** .............. Matthew Formica
- **Secretary** .................... Gerald Potamis

## Directors

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

- Communications Council ........ Jennifer Lachmayr
- Meeting Management Council ... Elena Proakis Ellis
- Collection System/Water Resources Council .................. Virgil Lloyd
- Treatment, System Operations, and Management Council ....... Marylee Santoro
- Outreach Council ................ Jonathan Kunay

## Water Environment Federation

### House of Delegates

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

## 2016 NEWEA Councils and Committees

### 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 ............... Stephen Buckley

### Meeting Management Council

- Conference Arrangements Committee ... Ronald Tiberi
- Exhibits Committee ................ Paul P. 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, System Operations, and Management Council

- Asset Management Committee .......... John Rogers
- Energy Committee .................. Denise Breiteneicher
- 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 Resources Council

- Collection Systems Certification Committee ... Gregory Kidd
- Collection Systems Committee .......... John Digiacomo
- CSO/Wet Weather Issues Committee .... Ivonne Hall
- Industrial Wastewater Committee ...... Sarah White
- Stormwater Committee .............. David Bedoya/Vinta Varghese
- Sustainability Committee ............ Elizabeth Keddy
- 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
- Project Delivery Alternatives Committee ... Michael Curtis
- Public Education Committee .......... Geraldine Ciardelli
- Safety Committee .................. David Aucoin
- Scholarships Committee .............. Udaiyarka Karra
- Student Activities Committee ........ Annalisa Onnis-Hayden
- Water for People Committee .......... Anastasia Rudenko
- Young Professional Committee ....... Justin Skelly

### Executive Office

- **Executive Director** ............ Mary Barry
- **Program Coordinator** ........... Janice Moran
- **Office Administrator** ........... Linda Austin

---

*ad hoc committees*
NYWEA Board of Directors and Committees

Board of Directors
Officers
President ......................... Joseph L. Fiegl, Buffalo
President-Elect .................. Paul J. McGarvey, Amherst
Vice President ................. Geoffrey Baldwin, New York City
Vice President-Elect .......... Robert Wither, Albany
Immediate Past President.... Michael J. Garland, Rochester
Treasurer ......................... Thomas J. Lauro, New Rochelle
Assistant Treasurer . Anthony DellaValle, New Rochelle
Executive Director .......... Patricia Cerro-Reehil, Syracuse

Water Environment Federation
House of Delegates
John Fortin, New York City
Richard Pope, White Plains

Operator Representative ....... Donna Bee, Northport
Young Professional ............. Greg Levassuer, Melville
NYSDEC Liaison ................ Joe DiMura, Albany
USEPA Liaison .................. Jeff Gratz, New York

Chapter Representatives
Capital .......................... Will Stradling, Troy
Central .......................... Brian Skidmore, Liverpool
Genesee ........................ William Davis, Rochester
Long Island ...................... Mark Wagner, Woodbury
Lower Hudson ................... Charlie Beckett, Harrison
Metropolitan ................... Dominic DiSalvo, White Plains
Western ........................ Oluwole (OJ) McFoy, Buffalo

Committee Representatives
Christopher Dodson, Syracuse
Mike Manning, Rochester
Tim Taber, Syracuse

Executive Office
Executive Director .......... Patricia Cerro-Reehil
Administrative Manager .......... Margaret Hoose
IT Specialist (p/t) .......... Maureen Kozol
Operator Certification Administrator ...................................... Tanya Jennings
DMA/Advertising Manager (p/t) .......... Rebecca Martin
Scholarship Program Manager (p/t) .......... Theresa Baker

Collection Systems Board .................. Ben Wright
Operator Certification Governance Council
Robert Wither

Task Forces
Business Plan .................. Paul McGarvey
Design Standards ............. Robert Butterworth
Disinfection .................... Drew Smith
Emergency Preparedness ........... Vacant
Green Infrastructure ........... Doug Greeley
Nutrient ........................ Mark Greene
Operator of the Future .......... Jonathan Ruff
Stormwater ..................... Greg Liberman

Program Committee
Lauren Livermore, Chair
Jeffrey G. Butler, Vice-Chair
Leo Aparri
Geoff Baldwin
Robert Bendlin
Patricia Cerro-Reehil
Ronald C. Delo
Lisa Derrigan
Daniel Durfee
Jennifer Franco
Rob Frost
Sarah Galst
Robert Ganley
Mark Greene
Donna Hager
Camie Jarrell
John Jeris
Frederick Kincheloe
Robert J. Kukenberger
Jeffrey LeBlanc
Mike Lynch
Jannine M. McColgan
Paul McGarvey
Vatche Minassian
Gerard S. Moscinski
James Mueller
Randy Ott
Gregg Palmer
Peter R. Pastore
George Penesis
John Petito
Clifford Pomerantz
Richard Pope
Peter J. Radosta
David Railsback
Wendi Richards
Stephen Rozewski
Vincent Rubino
Jonathan Ruff
Elliot F. Sachs
Robert R. Sharp
David Stahl
Nancy Struzenski
Timothy W. Wales
Janine Witko
Tired of Replacing Air Valves? Tired of the Maintenance Costs?

**Solutions:** Vent-Tech Stainless Steel Air Valves is the Answer.

*The leader in air valve technology, innovation and customer service.*

Discover the Positive Difference
Charlatte Surge Tanks will make!

Don’t be fooled into thinking that a check valve or a relief valve has the ability to mitigate the transient surge waves associated with an unexpected pump trip.
# Mark Your Calendar for These Upcoming Events

## NEWEA Events

| JUNE   | 30 | Poo & Brew Networking Event  
          Stratford WWTF / Two Road’s Brewery  
          Stratford, CT |
|--------|----|-------------------------------------------------------------------|
| JULY   | 15 | Small Community Specialty Conference  
          Sea Crest Hotel  
          North Falmouth, MA |
|        | 21 | NEWEA Committee Appreciation Event  
          Kimball Farms  
          Westford, MA |
| AUGUST | 24 | Facility Tour & Technical Presentation  
          WWTF  
          Dover, NH |
|        | 29-31 | NEWEA/ASCE-EWRI Low Impact Design Conference  
               Holiday Inn by the Bay  
               Portland, ME |
| SEPTEMBER | 12 | Collection Systems Specialty Conference  
              Holiday Inn  
              Boxborough, MA |
|        | 25 | NEWEA/NYWEA Reception at WEFTEC  
              New Orleans, LA |
| OCTOBER | 3 | NEWEA Benefit Golf Tournament Fund Raiser  
               The Country Club of New Bedford  
               New Bedford, MA |
|        | 19-20 | North East Residuals & Biosolids Conference  
               Radisson Hotel  
               Cromwell, CT |

## NYWEA Events

| JUNE   | 15 | SPRTK, Electronic DMRs & SPDES Compliance  
            IBM East Fishkill  
            Hopewell Junction, NY |
|        | 21 | Emerging Contaminant Webinar |
| JULY   | 15 | Nitrogen Removal  
            Dunkirk Clarion Hotel  
            Dunkirk, NY |
|        | 20 | CHAPEX  
            Syracuse, NY |
|        | 22 | SPRTK, Electronic DMRs & SPDES Compliance  
               Civil Defense Training Facility  
               Bath, NY |
| SEPTEMBER | 13 | 2016 NYC Watershed Science and Technical Conference  
              Diamond Mills Hotel  
              Saugerties, NY |
|        | 13 | How to Maximize Revenue from Your Biogas  
            Elks Lodge  
            Watertown, NY |
|        | 25 | NYWEA/NEWEA Reception at WEFTEC  
              New Orleans, LA |
| NOVEMBER | 16 | 2016 NYWEA/NYSAWWA Energy Specialty Conference  
            Albany, NY |

---

**CHECK OUT THE**

**2016 NEWEA/NYWEA Joint Spring Meeting:**

**WE’RE MOBILE!**

http://events.newea.org
# 2016 Spring Meeting At-A-Glance

## Sunday, June 5, 2016

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 am–11:00 am</td>
<td>NYWEA Executive Committee Meeting</td>
<td>Conference Room 7</td>
</tr>
<tr>
<td>10:00 am–4:00 pm</td>
<td>NEWEA Executive Committee Meeting</td>
<td>Mystic Salon D</td>
</tr>
<tr>
<td>11:00 am–3:00 pm</td>
<td>NYWEA Board Meeting</td>
<td>Conference Room 7</td>
</tr>
<tr>
<td>11:00 am–4:00 pm</td>
<td>Operations Challenge and Exhibits: SETUP</td>
<td>Grand Ballroom</td>
</tr>
<tr>
<td>6:00 pm–7:30 pm</td>
<td>President’s Reception</td>
<td>Mystic Ballroom A-B</td>
</tr>
<tr>
<td>7:00 pm–10:00 pm</td>
<td>Boss Tweed Concert</td>
<td>Mystic Ballroom A-B</td>
</tr>
</tbody>
</table>

## Monday, June 6, 2016

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 am–9:00 am</td>
<td>Opening Session (Breakfast served 7:30 am–8:30 am)</td>
<td>Grand Ballroom</td>
</tr>
<tr>
<td>7:30 am–7:00 pm</td>
<td>Exhibit Hall Open</td>
<td>Grand Ballroom</td>
</tr>
<tr>
<td>9:15 am–11:45 am</td>
<td>Technical Session 1: Utilities of the Future</td>
<td>Mystic Salon D</td>
</tr>
<tr>
<td>9:15 am–11:45 am</td>
<td>Technical Session 2: Maintaining our Collection Systems into the Future</td>
<td>Mystic Salon E</td>
</tr>
<tr>
<td>9:15 am–11:45 am</td>
<td>Technical Session 3: Process Efficiency and Cost Savings Measures</td>
<td>Mystic Salon A</td>
</tr>
<tr>
<td>9:30 am–4:00 pm</td>
<td>Guest Program: Look for event details on-site</td>
<td>Offsite (meet in Hotel Lobby)</td>
</tr>
<tr>
<td>10:15 am–10:45 am</td>
<td>Coffee Break in Exhibit Hall</td>
<td>Grand Ballroom</td>
</tr>
<tr>
<td>12:00 pm–1:30 pm</td>
<td>Lunch in Exhibit Hall</td>
<td>Grand Ballroom</td>
</tr>
<tr>
<td>12:00 pm</td>
<td>Golf Outing (Shotgun start at 12:30 pm)</td>
<td>Stonington Country Club</td>
</tr>
<tr>
<td>1:30 pm–4:30 pm</td>
<td>Technical Session 4: Managing Stormwater through Green Infrastructure</td>
<td>Mystic Salon D</td>
</tr>
<tr>
<td>1:30 pm–4:30 pm</td>
<td>Technical Session 5: Digestion at the Water Resource Recovery Facility</td>
<td>Mystic Salon E</td>
</tr>
<tr>
<td>2:30 pm–4:00 pm</td>
<td>Operations Challenge Team Meeting/Process Control.</td>
<td>Mystic Salon E</td>
</tr>
<tr>
<td>2:30 pm–3:30 pm</td>
<td>Coffee Break in Exhibit Hall</td>
<td>Grand Ballroom</td>
</tr>
<tr>
<td>5:30 pm–7:00 pm</td>
<td>Reception/5S Ceremony in Exhibit Hall</td>
<td>Exhibit Hall</td>
</tr>
<tr>
<td>7:00 pm</td>
<td>Dinner on Own</td>
<td></td>
</tr>
</tbody>
</table>

## Tuesday, June 7, 2016

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30 am</td>
<td>Fun Run/Walk for Water For People</td>
<td>Bluff Point State Park</td>
</tr>
<tr>
<td>8:00 am–9:00 am</td>
<td>Continental Breakfast</td>
<td>Grand Ballroom</td>
</tr>
<tr>
<td>8:00 am–5:30 pm</td>
<td>Exhibit Hall Open</td>
<td>Grand Ballroom</td>
</tr>
<tr>
<td>8:30 am–4:00 pm</td>
<td>Guest Program: Look for event details on-site</td>
<td>Offsite (meet in Hotel Lobby)</td>
</tr>
<tr>
<td>9:00 am–4:00 pm</td>
<td>Operations Challenge Events: Look for event times on-site</td>
<td>Grand Ballroom</td>
</tr>
<tr>
<td>9:00 am–12:00 pm</td>
<td>Technical Session 6: Sustainable Design 1</td>
<td>Mystic Salon D</td>
</tr>
<tr>
<td>9:00 am–12:00 pm</td>
<td>Technical Session 7: Nutrient Removal 1</td>
<td>Mystic Salon E</td>
</tr>
<tr>
<td>9:00 am–12:00 pm</td>
<td>Technical Session 8: Public Awareness</td>
<td>Mystic Salon A</td>
</tr>
<tr>
<td>9:00 am–12:00 pm</td>
<td>Technical Session 9: Reductions in Greenhouse Gas Emissions</td>
<td>Mystic Salon B</td>
</tr>
</tbody>
</table>

(Registration Hours: 12:00 pm–4:00 pm)

(Registration Hours: 7:30 am–6:00 pm)

(Registration Hours: 7:30 am–5:00 pm)
History Prevails!

There exists some history on our “teaming up together” to hold successful joint meetings between NEWEA and NYWEA. Over the years our joint meetings provide for enhanced educational opportunities and more occasions to discuss regional watershed environmental issues.

Past joint meetings include:

<table>
<thead>
<tr>
<th>Year</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1938</td>
<td>Hartford, CT</td>
</tr>
<tr>
<td>1955</td>
<td>Albany, NY</td>
</tr>
<tr>
<td>1973</td>
<td>Lake Placid, NY</td>
</tr>
<tr>
<td>1984</td>
<td>Hyannis, MA</td>
</tr>
<tr>
<td>2006</td>
<td>Groton, CT</td>
</tr>
<tr>
<td>2011</td>
<td>Lake George, NY</td>
</tr>
</tbody>
</table>

Thank you for joining us and making more history at the 2016 NEWEA/NYWEA Joint Spring Meeting. And here’s to our next Joint Spring Meeting!
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sunday, June 5</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:00 am–11:00 am</td>
<td>NYWEA Executive Committee Meeting (Conference Room 7)</td>
<td></td>
</tr>
<tr>
<td>10:00 am–4:00 pm</td>
<td>NEWEA Executive Committee Meeting (Mystic Salon D)</td>
<td></td>
</tr>
<tr>
<td>11:00 am–3:00 pm</td>
<td>NYWEA Board Meeting (Conference Room 7)</td>
<td></td>
</tr>
<tr>
<td><strong>Monday, June 6</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7:30 am–8:30 am</td>
<td>Speaker Breakfast-Ready Room (Conference Room 4)</td>
<td></td>
</tr>
<tr>
<td>9:15 am–11:15 am</td>
<td>NEWEA Awards Committee (Conference Room 3)</td>
<td></td>
</tr>
<tr>
<td>10:45 am–11:15 am</td>
<td>NEWEA Program Committee (Board Room)</td>
<td></td>
</tr>
<tr>
<td>10:15 am–10:45 am</td>
<td>NYWEA Utility Executives Committee (Conference Room 4)</td>
<td></td>
</tr>
<tr>
<td>5:30 pm–7:00 pm</td>
<td>Reception 5S and NYWEA Golden Manhole (Exhibit Hall)</td>
<td></td>
</tr>
<tr>
<td><strong>Tuesday, June 7</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7:30 am–8:30 am</td>
<td>Speaker Breakfast-Ready Room (Conference Room 4)</td>
<td></td>
</tr>
<tr>
<td>8:00 am–9:00 am</td>
<td>President’s Breakfast (Invitation only) (Conference Room 3)</td>
<td></td>
</tr>
<tr>
<td>8:00 am–9:00 am</td>
<td>Collection Systems Committee (Conference Room 5)</td>
<td></td>
</tr>
<tr>
<td>10:00 am–10:30 am</td>
<td>NYWEA Operator Certification Governance Council (TBA)</td>
<td></td>
</tr>
<tr>
<td>12:00 pm–1:30 pm</td>
<td>Lunch with presentation, “Turning Water into Wine” (Exhibit Hall)</td>
<td></td>
</tr>
<tr>
<td>2:00 pm–3:00 pm</td>
<td>NEWEA ASA Meeting (Conference Room 1)</td>
<td></td>
</tr>
<tr>
<td><strong>Wednesday, June 8</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7:30 am–8:30 am</td>
<td>Speaker Breakfast-Ready Room (Conference Room 4)</td>
<td></td>
</tr>
<tr>
<td>11:30 am–12:30 pm</td>
<td>Lunch</td>
<td></td>
</tr>
</tbody>
</table>
Navigating the waters

GHD is a leader in the water industry, helping to charter your course across the globe, piloting every element of the water cycle

www.ghd.com
Building communities since 1933