



# NEWEA & NYWEA Joint Spring Meeting Technical Conference & Exhibition

On-Site Program

ENVIRONMENTAL STEWARDSHIP  
IN THE 21ST CENTURY

June 5-8, 2016

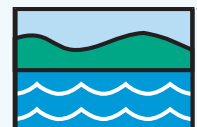
Groton, Connecticut  
Mystic Marriott Hotel

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Connecticut Association of Water Pollution Control Authorities (CAWPCA)  
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## 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.



Ray Willis, III  
NEWEA President



Joseph Fiegl  
NYWEA President



Rob Klee



Heather Goldstone

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

**Contact Hours:** 1.5 Wastewater<sup>‡</sup>

**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<sup>‡</sup>**

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.



<b>10:15 am–10:45 am</b>	<b>Coffee Break</b> ( <i>Grand Ballroom</i> )
<b>10:45 am</b>	<p><b>Comprehensive Sampling Program in Support of a Large New Jersey LTCP<sup>‡</sup></b>  Timothy Groninger, Francisco Brillhante, HDR Engineering;  Bridget McKenna, Passaic Valley Sewerage Commission</p> <p>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.</p>
<b>11:15 am</b>	<p><b>How Including the Public Helped in Developing a Stormwater Utility<sup>‡</sup></b>  Nancy Gallinaro, Justin Pellerin, City of Portland, Maine</p> <p>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.</p>
<b>11:45 am–1:30 pm</b>	<b>Lunch</b> ( <i>Grand Ballroom</i> )
<p><b>Monday, June 6, 2016</b></p> <p><b>Session 2: Maintaining Our Collection Systems into the Future</b> (<i>Mystic Salon E</i>)</p> <p><b>Contact Hours:</b> 2.0 Engineer      2.0 Wastewater</p>	
<b>Moderators</b>	Robert DeGiorgio, D&B Engineers; David Van Hoven, MWH Global
<b>9:15 am</b>	<p><b>Force Main and Trunk Line Sewer Installation/Rehabilitation Utilizing Three Trenchless Technologies</b>  Kevin Shannon, Sandra L. Tripp, GHD</p> <p>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.</p>
<b>9:45 am</b>	<p><b>Managing Boston’s Investments in Buried Infrastructure through Systematic Evaluation of Condition and Risk</b>  Jacob Peck, CH2M; Chase Berkeley, Boston Water &amp; Sewer Commission</p> <p>The Boston Water &amp; 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.</p>
<b>10:15 am–10:45 am</b>	<b>Coffee Break</b> ( <i>Grand Ballroom</i> )

**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<sup>‡</sup>**

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*)

10:45 am	<p><b>How the Application of Spectrophotometry to Optimization of Aeration and Disinfection Saved 25 Percent of the Energy in a 10 MGD Plant<sup>†</sup></b></p> <p>Robert Dunbar, Nathan Klinkhammer, Chris Russo, ZAPS Technologies</p> <p>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.</p>
11:15 am	<p><b>Struvite Control, Polymer Reduction and Cake Dryness Improvement with Energy Efficient Process – HydroFLOW<sup>†</sup></b></p> <p>Douglas L. Miller, Douglas L. Miller Consulting; Tal Journo, Chuck Glessner, HydroFLOW-USA</p> <p>The <i>HydroPATH</i> 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.</p>
11:45 am–1:30 pm	<p><b>Lunch</b> (<i>Grand Ballroom</i>)</p> <p><b>Monday, June 6, 2016</b></p> <p><b>Session 4: Managing Stormwater through Green Infrastructure</b> (<i>Mystic Salon D</i>)</p> <p><b>Contact Hours:</b> 2.0 Engineer 1.0 Wastewater<sup>†</sup></p>
Moderators	Jennifer Johnson, Nitsch Engineering, Inc.; Brian Skidmore, Barton and Loguidice
1:30 pm	<p><b>Narragansett Bay Commission Stormwater Mitigation Program<sup>†</sup></b></p> <p>Stephen Lallo, Narragansett Bay Commission</p> <p>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.</p>
2:00 pm	<p><b>Green Infrastructure/Stormwater Management Requirements in the City of Buffalo (A Mixed CSS and MS4 System)<sup>†</sup></b></p> <p>Rosaleen Nogle, Buffalo Sewer Authority</p> <p>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.</p>
2:30 pm–3:30 pm	<p><b>Coffee Break</b> (<i>Grand Ballroom</i>)</p>



**3:30 pm** | **Enhancing New York City's Public Spaces with Stormwater Management**  
 Dahlia Thompson, Liza Faber, Hazen and Sawyer; Kevin Dahms, Adriana Kocovic, NYCDEP  
 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.

**4:00 pm** | **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<sup>‡</sup>

**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<sup>‡</sup>**

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<sup>‡</sup>**

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 habitat 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<sup>†</sup>**  
Virgil Lloyd, Fuss & O'Neill, Inc.; Chris Lund, Town of Groton, Connecticut  
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*)

**Contact Hours:** 2.0 Engineer 2.0 Wastewater

**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, Dvirka 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<sup>†</sup>

#### Moderators

Dan Durfee, CDM Smith; Glen Knecht, Casella Organics

9:00 am

#### **Optimizing the Use of Digester Gas with Gas Blending Systems<sup>†</sup>**

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<sup>†</sup>**

Elizabeth Brannon, Serena Moseman-Valtierra, University of Rhode Island;

James McCaughey, Narragansett Bay Commission

N<sub>2</sub>O, CO<sub>2</sub>, and CH<sub>4</sub> 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 CO<sub>2</sub> fluxes were greatest followed by N<sub>2</sub>O and CH<sub>4</sub>. All fluxes were dynamic between zones and N<sub>2</sub>O and CH<sub>4</sub> 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 WWTs to Meet Deep Carbon Reduction Goals<sup>†</sup>**

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<sup>†</sup>

#### 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 design, 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 “Squirle” Clarifiers<sup>†</sup>**

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<sup>†</sup>**

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<sup>†</sup>**

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<sup>†</sup>

**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<sup>†</sup>**

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<sup>†</sup>**

Thomas Groves, Michael Jennings, New England Interstate Water Pollution Control Commission (NEIWGCC)

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 through 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 NEIWGCC'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<sup>†</sup>**

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<sup>†</sup>

**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<sup>‡</sup>**  
 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.

**10:00 am–10:30 am** | **Coffee Break *(Mystic Salon C/F)***

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<sup>†</sup>**

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.

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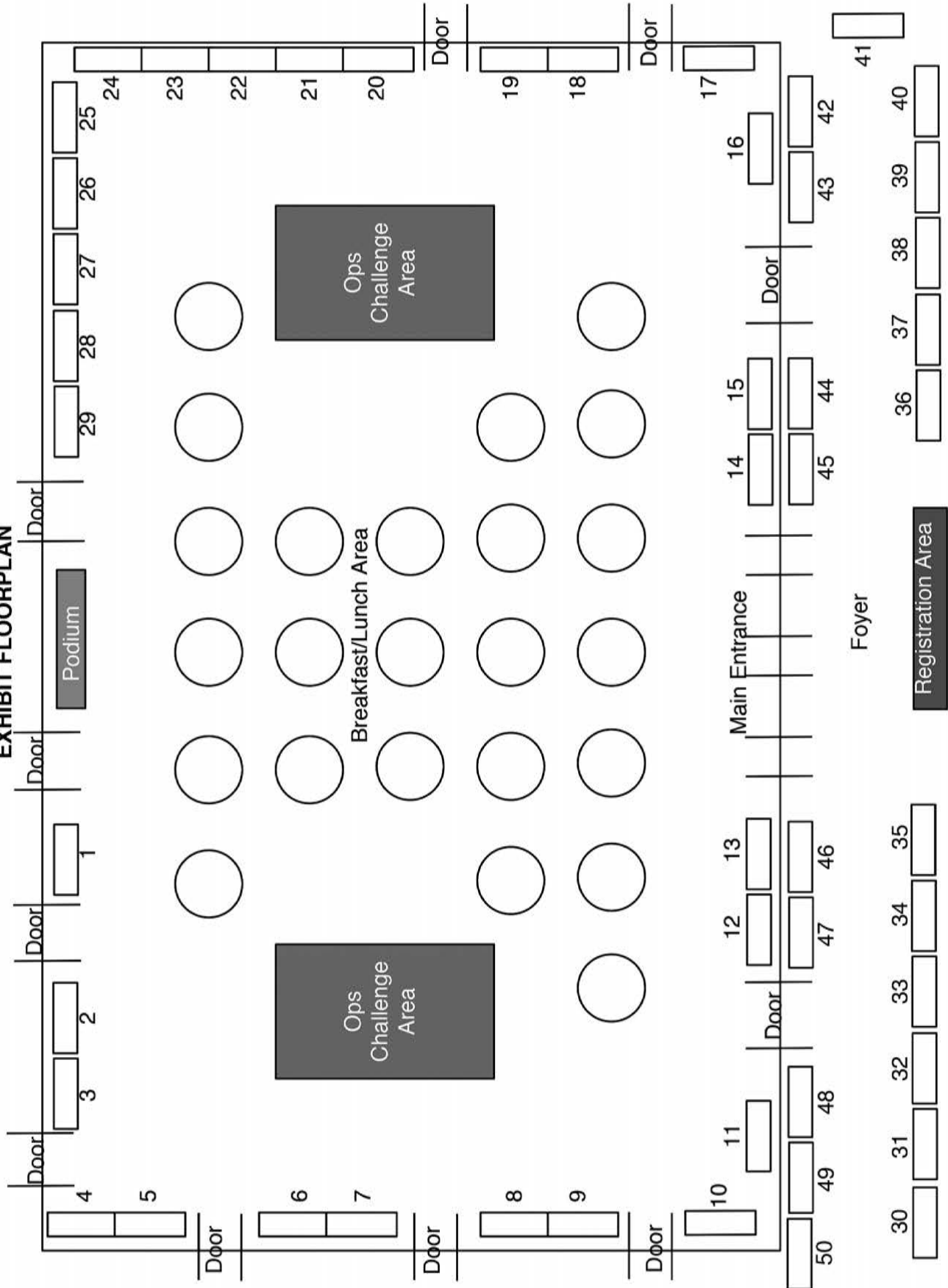


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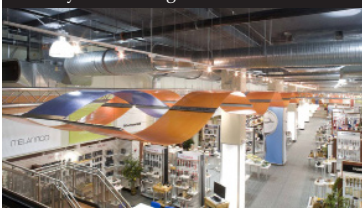
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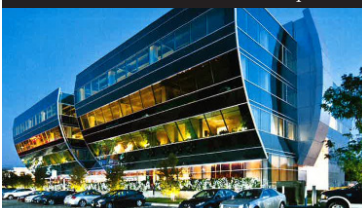
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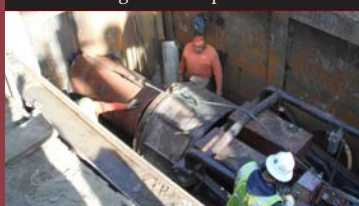
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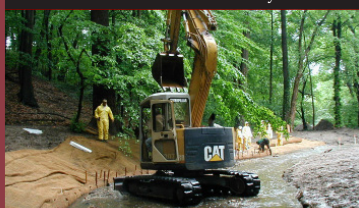
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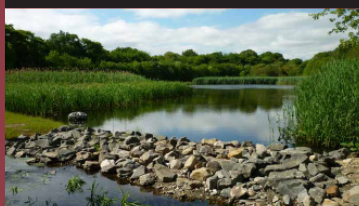
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## Guest Program

### Monday June 6, 2017

**8:00 am–9:00 am** Join us for Breakfast during the Opening Session (*Grand Ballroom*)

**9:30 am–4:00 pm** **Monday Excursion**

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.

**12:00 pm** **Golf Tournament** (*Stonington Country Club*)

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!

**5:30 pm** **NEWEA/NYWEA Reception** (*Grand Ballroom*)

Join us at the NEWEA/NYWEA Reception and 5S Induction Ceremony in the Exhibit Hall.

### Tuesday June 7, 2016

**7:00 am–8:30 am** **Breakfast** (*Grand Ballroom*)

Meet for continental breakfast before the day's activities.

**8:30 am–4:15 pm** **Guest Tour and Program** (*Off-site, meet in Hotel lobby.*)

Our Guest Program begins with our traveling to a New London paint studio. There we will create our own 18" x 20" masterpieces. It is *not* paint by number, but just as easy!

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.

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.

**4:30 pm–5:30 pm** **Operations Challenge Awards Reception** (*Exhibit Hall*)

**6:00 pm** **Board buses for Mystic Aquarium**

**7:00 pm–10:00 pm** **Reception and Dinner, Mystic Aquarium**

**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**

6:00 pm–7:30 pm

**Joint NEWEA/NYWEA President's Reception** (*Mystic Ballroom A-B*)  
With Special Address by Congressman Joe Courtney



Congressman  
Joe Courtney

7:00 pm–10:00 pm

**In the same room as President's Reception**

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 & 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.



**MYSTIC AQUARIUM**  
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### Monday

**June 6, 2016**

5:30 pm–7:00 pm

**Joint NEWEA/NYWEA Reception** (*Grand Ballroom*)  
5S Ceremony



### Tuesday

**June 7, 2016**

7:30 am–8:30 am

**NEWEA/NYWEA Past President's Breakfast**  
(*Invitation Only*)

7:30 am–8:30 am

**"Gadgets and Gizmos" is Back!** (*Mystic C Ballroom*)

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 [ralbright@hazenandsawyer.com](mailto:ralbright@hazenandsawyer.com) to RSVP or with any questions.

12:00 pm

**Water to Wine and Beer Too! The Wine, Water, Beer Nexus** (*in Exhibit Hall*)

Mike Bonomo, ADS; Ed McCormick, WEF Past President; and Jay Sheehan, Woodard & 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.

6:00 pm

**Board buses for Mystic Aquarium**

7:00 pm–10:00 pm

**Reception and Dinner, Mystic Aquarium**

Join in the fun with your NEWEA/NYWEA cohorts at the Mystic Aquarium. It will surely be a memorable night!

## Professional Tours

**Tuesday**

**June 7, 2016**

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



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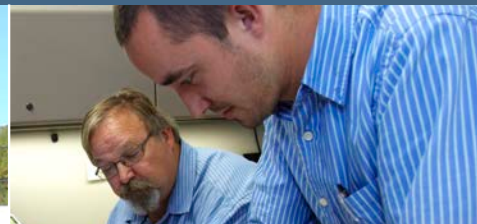
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## Monday

2:30 pm

5:30 pm–7:00 pm

## Tuesday

8:00 am–9:00 am

9:00 am–3:00 pm

3:00 pm–4:00 pm

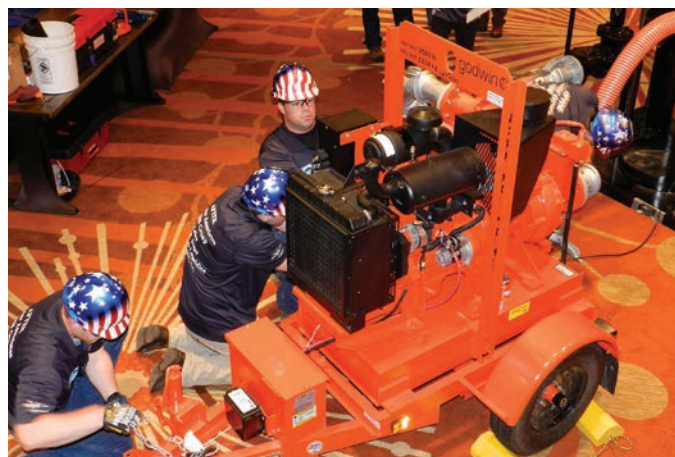
4:30 pm–5:30 pm

6:00 pm–10:00 pm

## NEWEA/NYWEA Regional Operations Challenge

### June 6, 2016

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



### June 7, 2016

**Judges Meeting**  
**Operations Challenge Competition** (*Grand Ballroom*)  
**Operations Challenge Sludge “Challenge”**  
**Reception in Exhibit Hall / Operations Challenge Awards**  
**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

# TEAMS & JUDGES

## New York WEA LONG ISLAND CHAPTER

### Brown Tide

Jake Miller  
Alec Breen  
James Behr  
Rob Jentz  
Dale Grudier (Coach/  
Alternate)

## GENESEE CHAPTER

### Genesee Valley Water Recyclers

Michael Burkett  
Timothy Keegan Jr.  
Justin Slentz  
Robert Holland  
Steven Reiter  
(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

## NEWEA NEW HAMPSHIRE

### Seacoast Sewer Snakes

Brian Farmer  
Dustin Price  
Sean Kehoe  
Patty Chesebrough  
Mike Carle (Coach)

## NEWEA MAINE

### Force Maine

Alex Buechner  
(Captain)  
Dan Laflamme  
Scot Lausier  
Ian Carter

## NEWEA RHODE ISLAND

### Ocean State Alliance

Vinnie Russo  
(Captain)  
Eddie Davies  
Sam Sullivan  
Ryan Patnode  
Mike Spring (Coach)

## Chesapeake WEA

### Motley Poo

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

## New Jersey WEA

### Devils

Ken Wuerker (Captain)  
Josh Palombo  
Mike McLaughlin  
Matt Preist  
Art Cowan (Alternate)

## Virginia WEA

### Team HRSD

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

LET THE  
GAMES  
BEGIN

## 2016 Operations Challenge Judge List

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

## 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





Bluff Point State Park Trail



## 6:30 am, Tuesday, June 7 • Bluff Point State Park, Groton, CT

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:

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## 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 Speciality 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

	<b>Sunday, June 5, 2016</b>	<b>(Registration Hours: 12:00 pm–4:00 pm)</b>
<b>9:00 am–11:00 am</b>	NYWEA Executive Committee Meeting . . . . .	Conference Room 7
<b>10:00 am–4:00 pm</b>	NEWEA Executive Committee Meeting . . . . .	Mystic Salon D
<b>11:00 am–3:00 pm</b>	NYWEA Board Meeting . . . . .	Conference Room 7
<b>11:00 am–4:00 pm</b>	Operations Challenge and Exhibits: SETUP. . . . .	Grand Ballroom
<b>6:00 pm–7:30 pm</b>	President’s Reception . . . . .	Mystic Ballroom A-B
<b>7:00 pm–10:00 pm</b>	Boss Tweed Concert . . . . .	Mystic Ballroom A-B
	<b>Monday, June 6, 2016</b>	<b>(Registration Hours: 7:30 am–6:00 pm)</b>
<b>8:00 am–9:00 am</b>	Opening Session (Breakfast served 7:30 am– 8:30 am) . . . . .	Grand Ballroom
<b>7:30 am–7:00 pm</b>	Exhibit Hall Open . . . . .	Grand Ballroom
<b>9:15 am–11:45 am</b>	Technical Session 1: Utilities of the Future . . . . .	Mystic Salon D
<b>9:15 am–11:45 am</b>	Technical Session 2: Maintaining our Collection Systems into the Future . . . . .	Mystic Salon E
<b>9:15 am–11:45 am</b>	Technical Session 3: Process Efficiency and Cost Savings Measures. . . . .	Mystic Salon A
<b>9:30 am–4:00 pm</b>	Guest Program: Look for event details on-site . . . . .	Offsite (meet in Hotel Lobby)
<b>10:15 am–10:45 am</b>	Coffee Break in Exhibit Hall . . . . .	Grand Ballroom
<b>12:00 pm–1:30 pm</b>	Lunch in Exhibit Hall . . . . .	Grand Ballroom
<b>12:00 pm</b>	Golf Outing (Shotgun start at 12:30 pm) . . . . .	Stonington Country Club
<b>1:30 pm–4:30 pm</b>	Technical Session 4: Managing Stormwater through Green Infrastructure . . . . .	Mystic Salon D
<b>1:30 pm–4:30 pm</b>	Technical Session 5: Digestion at the Water Resource Recovery Facility. . . . .	Mystic Salon E
<b>2:30 pm–4:00 pm</b>	Operations Challenge Team Meeting/Process Control. . . . .	Grand Ballroom
<b>2:30 pm–3:30 pm</b>	Coffee Break in Exhibit Hall . . . . .	Grand Ballroom
<b>5:30 pm–7:00 pm</b>	Reception/5S Ceremony in Exhibit Hall . . . . .	Exhibit Hall
<b>7:00 pm</b>	Dinner on Own	
	<b>Tuesday, June 7, 2016</b>	<b>(Registration Hours: 7:30 am–5:00 pm)</b>
<b>6:30 am</b>	Fun Run/Walk for Water For People . . . . .	Bluff Point State Park
<b>8:00 am–9:00 am</b>	Continental Breakfast . . . . .	Grand Ballroom
<b>8:00 am–5:30 pm</b>	Exhibit Hall Open . . . . .	Grand Ballroom
<b>8:30 am–4:00 pm</b>	Guest Program: Look for event details on-site . . . . .	Offsite (meet in Hotel Lobby)
<b>9:00 am–4:00 pm</b>	Operations Challenge Events: Look for event times on-site . . . . .	Grand Ballroom
<b>9:00 am–12:00 pm</b>	Technical Session 6 : Sustainable Design 1. . . . .	Mystic Salon D
<b>9:00 am–12:00 pm</b>	Technical Session 7: Nutrient Removal 1 . . . . .	Mystic Salon E
<b>9:00 am–12:00 pm</b>	Technical Session 8: Public Awareness . . . . .	Mystic Salon A
<b>9:00 am–12:00 pm</b>	Technical Session 9: Reductions in Greenhouse Gas Emissions. . . . .	Mystic Salon B

# 2016 Spring Meeting At-A-Glance

## Tuesday, June 7, 2016, continued

10:00 am–11:00 am	Coffee Break in Exhibit Hall . . . . .	Grand Ballroom
12:00 pm–1:30 pm	Lunch Served in Exhibit Hall . . . . .	Grand Ballroom
12:45 pm–4:30 pm	WWTP Tours: City of Groton WWTF/Meshantucket Pequot WWTF . . .	Offsite (meet in Hotel Lobby)
1:30 pm–4:30 pm	Technical Session 10: Sustainable Design 2 . . . . .	Mystic Salon D
1:30 pm–4:30 pm	Technical Session 11: Residuals . . . . .	Mystic Salon E
1:30 pm–4:30 pm	Technical Session 12: Global Climate Change . . . . .	Mystic Salon A
1:30 pm–4:30 pm	Technical Session 13: The Stormy Awards . . . . .	Mystic Salon B
2:30 pm–3:30 pm	Coffee Break in Exhibit Hall . . . . .	Grand Ballroom
6:30 pm–9:00 pm	Dinner Offsite/Operations Challenge Awards (Buses start at 5:45 pm) . . . . .	Mystic Aquarium

## Wednesday, June 8, 2016

(Registration Hours: 8:00 am–10:00 am)

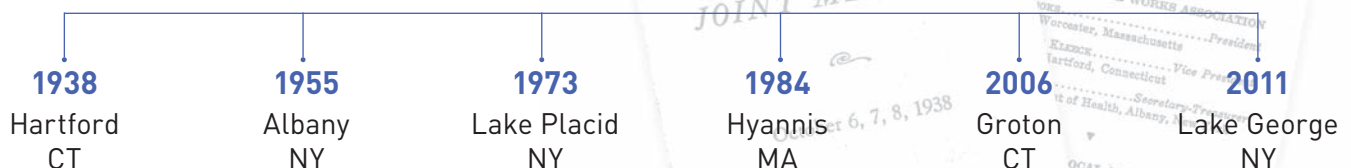
8:00 am–9:00 am	Continental Breakfast . . . . .	Mystic Salon C/F
9:00 am–11:30 am	Technical Session 14: Low Impact Development . . . . .	Mystic Salon D
9:00 am–11:30 am	Technical Session 15: Nutrient Removal 2 . . . . .	Mystic Salon E
9:00 am–11:30 am	Technical Session 16: Emerging and Current Issues in Water Quality . . . . .	Mystic Salon A
10:00 am–10:30 am	Coffee Break . . . . .	Mystic Salon C/F
12:00 pm	Boxed Lunch to Go! . . . . .	Registration Desk

Committee Meetings & Schedule on next page.

## 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:



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!



## Committee Meetings & Schedule

### Sunday, June 5

9:00 am–11:00 am	NYWEA Executive Committee Meeting ( <i>Conference Room 7</i> )
10:00 am–4:00 pm	NEWEA Executive Committee Meeting ( <i>Mystic Salon D</i> )
11:00 am–3:00 pm	NYWEA Board Meeting ( <i>Conference Room 7</i> )

### Monday, June 6

7:30 am–8:30 am	Speaker Breakfast-Ready Room ( <i>Conference Room 4</i> )
9:15 am–11:15 am	NEWEA Awards Committee ( <i>Conference Room 3</i> )
10:45 am–11:15 am	NEWEA Program Committee ( <i>Board Room</i> )
10:15 am–10:45 am	NYWEA Utility Executives Committee ( <i>Conference Room 4</i> )
5:30 pm–7:00 pm	Reception 5S and NYWEA Golden Manhole ( <i>Exhibit Hall</i> )

### Tuesday, June 7

7:30 am–8:30 am	Speaker Breakfast-Ready Room ( <i>Conference Room 4</i> )
8:00 am–9:00 am	President's Breakfast (Invitation only) ( <i>Conference Room 3</i> )
8:00 am	Collection Systems Committee ( <i>Conference Room 5</i> )
10:00 am	NYWEA Operator Certification Governance Council ( <i>TBA</i> )
12:00 pm–1:30 pm	Lunch with presentation, "Turning Water into Wine" ( <i>Exhibit Hall</i> )
2:00 pm–3:00 pm	NEWEA ASA Meeting ( <i>Conference Room 1</i> )

### Wednesday, June 8

7:30 am–8:30 am	Speaker Breakfast-Ready Room ( <i>Conference Room 4</i> )
11:30 am–12:30 pm	Lunch







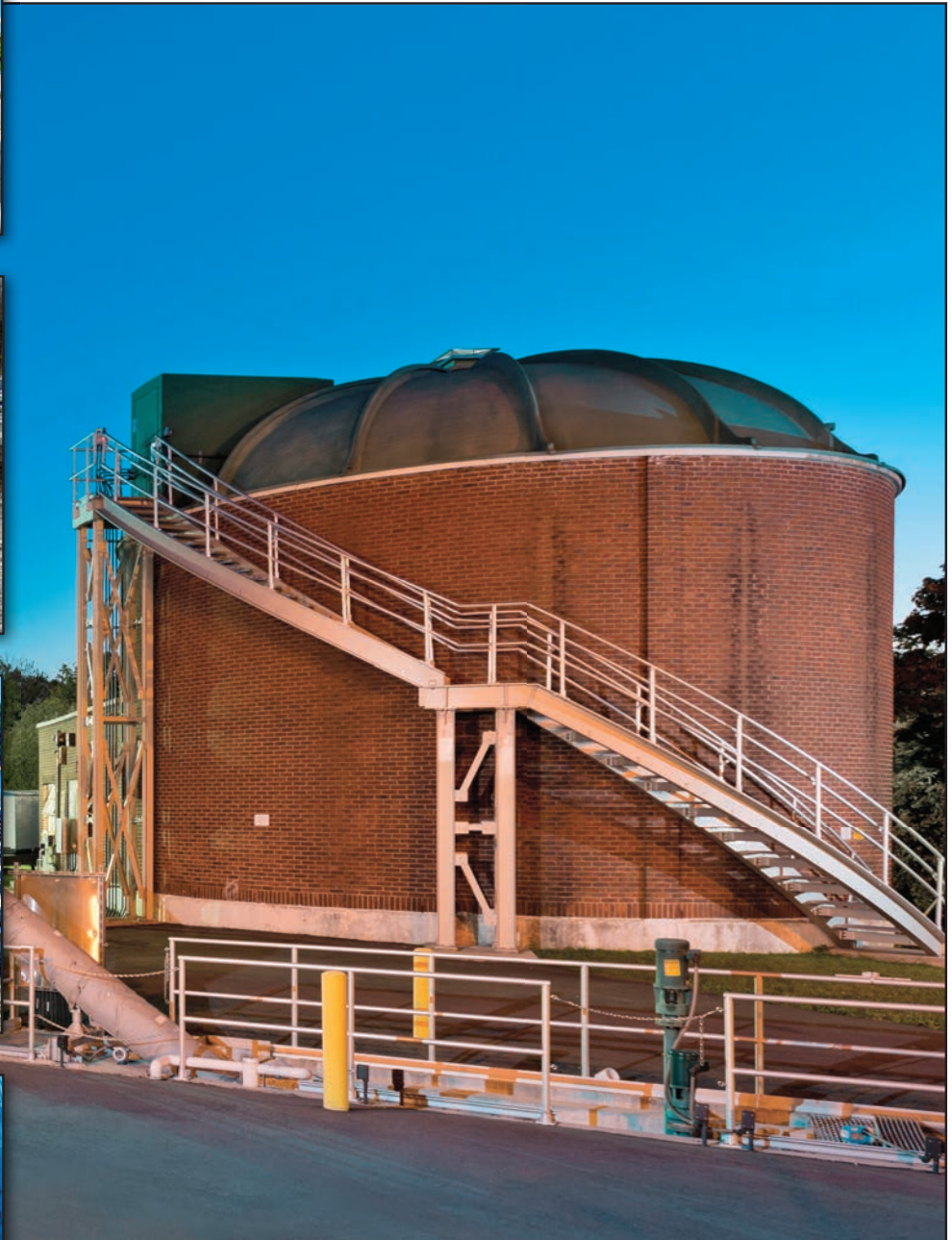
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