Developing a Sustainable Operator Workforce

Spring Technical Conference & Exhibition

Downtown Hilton & City Center, Saratoga Springs, NY

June 10-12, 2019

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Speaker Evaluations link for NY PDH Hours: [https://tinyurl.com/SpeakerEvalSp19](https://tinyurl.com/SpeakerEvalSp19)
Monday, June 10, 2019

8:00 am-10:30 am  
Opening Session  
(Saratoga 1 & 2)

8:30 am  
Welcome – NYWEA President, Robert Wither

8:45 am  
NYSDEC Commissioner Basil Seggos

9:15 am-10:15 am  
Panel Discussion – Creating a Sustainable Operator Workforce

• Daniel Rourke, Saratoga County Sewer District
• Mike Garland, Monroe County
• Mark Crandall, City of Watertown
• Kenya Lewis, NYC Department of Environmental Protection

10:15 am  
Break

Contact Hours:  
1.0 Engineer ‡  1.0 Wastewater °

10:30 am-11:30 am  
Climate Resiliency Toolbox: The Development and Execution of Flood Resiliency Measures to Effectively Protect Critical Wastewater Infrastructure ‡°

Sara Igielski, Vijesh Karatt Vellatt, Greeley and Hansen

A projected increase in flood risk due to more extreme storm surge events and continued sea level rise demonstrates a need for proactive coastal resiliency planning and engineering. This presentation will discuss the following development, selection, and implementation of aspects of the coastal resiliency toolbox within the context of a wastewater resource recovery facility (WRRF). Ultimately, a toolbox is created and executed so that the WRRF can withstand and/or rapidly recover from extreme wet weather events.

Session 1: Collection System and Hydraulic Modeling Potpourri  
(Broadway 1)

Moderators  
Richard Pope, Hazen and Sawyer; Ethan Sullivan, NYSDEC

Contact Hours:  
2.0 Engineer ‡  1.5 Wastewater ‡  0.5 Water °

1:30 pm  
Using Numerical and Computing Methods to Analyze Sanitary Sewer Evaluation Survey Data ‡

Tyler Pitts, John Lagorga, GHD

Using Pipeline Assessment Certification Program (PACP) data collected during a sanitary sewer evaluation survey, planning level sewer rehabilitation recommendations can be developed quickly and efficiently using numerical and computing methods. This allows the engineer and the client to easily target sections of wastewater collection systems that may be the highest priority based on client-set criteria.

2:00 pm  
Prescriptive Cleaning May Be a Bitter Pill to Swallow but Some Municipalities Are Finding a New Tech-Cure ‡

Jay Boyd, Matthew Brown, ADS LLC

Cleaning is an essential element of collection system operations and maintenance programs. The Cities of Renton, Washington, and La Mesa, California, performed pilot studies using real-time monitoring to provide continuous feedback allowing the remote monitors to dictate cleaning frequency and avoid SSOs. Renton’s four-month and La Mesa’s six-month pilots showed cleaning reductions of 94 percent and 80 percent, respectively. Pilot design, test data, costs and results will be detailed with hydrographs and data tables to illustrate findings.

2:30 pm  
Coffee Break  
(Gallery)

3:00 pm  
Throughlet Size – An Outdated Standard for Sewage Pumping ‡

Robert Domkowski, Ian Belzyk, Stefan Abelin, Mats Karlen, Xylem Water Solutions

A wastewater pump’s throughlet size is frequently used to specify clog resistance, despite data that demonstrates the irrelevance of this measurement. The number one requirement of a wastewater pump is its ability to pump wastewater without clogging. This presentation will describe the importance of a pump’s wet-end design for achieving clog-free operation. It will also establish how a pump’s throughlet size is a misleading parameter in specifying clog resistance.

3:30 pm  
Hydraulic Transient Analysis of an Uphill Raw Water Transmission Main Open to Atmosphere °

Emily Carlson, Venessa Brabant, Arcadis

Paulding County, Georgia, Board of Commissioners built a 48-inch diameter, quarter-inch thick steel pipeline as part of a larger objective of establishing an independent drinking water supply for their community. The
pipeline experiences abrupt elevation changes, a 300-foot elevation gain, and discharges to atmosphere 4-miles downstream. A hydraulic transient analysis was performed resulting in several surge protection practices being implemented, including pump control valve operations, several air valve types, and a hydropneumatic tank to suppress surge.

**Monday, June 10, 2019**

**Session 2 – Energy Conservation and Efficiencies** *(Broadway 2)*

**Moderators**

Monica Moss, NYSDEC; Eric Moody, Barton & Loguidice, DPC

**Contact Hours:** 2.0 Engineer 2.0 Wastewater

**1:30 pm**

*Energy Management Best Practices Handbook – Expanded and Updated*

Silvia Marpicati, Arcadis; Kathleen O’Connor, NYSERDA

Fresh off the press! A useful and trusted tool used by WRRF designers, operators, executives and regulators, NYSERDA’s Wastewater Energy Management Best Practices Handbook has been upgraded and expanded to reflect newer technologies and to address distributed renewable generation. The *Handbook* provides basic steps for building an energy program and describes self-standing best practices that can be used to strategically reduce energy consumption at the WRRF.

**2:00 pm**

*Clean, Modular CHP Installed for Flexibility as Part of the Oneida County WPCP and Binghamton-Johnson City Joint Sewage Treatment Plant Upgrades*

Lauren Ray, GEM Energy

Wastewater treatment plants are looking for ways to boost biogas production from their anaerobic digesters to maximize energy generation benefits, often from combined heat and power (CHP) systems. More plants of smaller scale are looking to achieve benefit from producing biogas. Microturbine CHP technologies offer flexible, robust solutions due to their modular design, wide operating range on pure biogas, high uptime, and resilience to H₂S. Design applications at Oneida County WPCP and Binghamton-Johnson City Joint STP are discussed.

**2:30 pm**

*Coffee Break* *(Gallery)*

**3:00 pm**

*Integrated Capital and Energy Planning – Baselining the Largest WRRFs in New York* *(1 hour)*

Mark Greene, OBG, Part of Ramboll; Brian Sibiga, Wendel; Matthew Yonkin, Silvia Marpicati, Arcadis; Kathleen O’Connor, NYSERDA; Guy Sliker, NYPA

My facility participated in the Baselining effort! I want to make my treatment plant more energy efficient! What is the next step? Find out by attending this presentation that will discuss findings of the WRRF Baselining effort and provide guidelines to participate in the Integrated Capital and Energy (ICE) Planning program, a NYSERDA and NYPA strategy for sustainable infrastructure investment with an ultimate goal of energy or carbon neutrality in the wastewater sector.

**Tuesday, June 11, 2019**

**Session 3 – Municipal and Industrial Challenges in the Capital Region** *(Broadway 1)*

**Moderators**

Silvia Marpicati, Arcadis; Tucker Cox, Town of Colonie

**Contact Hours:** 2.0 Engineer 2.0 Wastewater

**9:00 am**

*SCSD Collection System Wins and Woes*

Dan Rourke, Saratoga County

Saratoga County owns, operates and maintains approximately 300 miles of pipe and 100 pump stations that serve about 150,000 residents. This session will dive into the many lessons learned maintaining a geographically large system that contains every method of sewage transportation from grinder pumps and high pressure force mains to large siphons and gravity interceptors. Saratoga is also growing rapidly; managing new development properly while ensuring capacity for existing users is paramount to our success.
9:30 am  Finding Gold in Septage – How the Lake George Septage Acceptance Plant Solved Problems and Found Money
Julie Barown, J.A. Lange, Inc.; Warren Kersten, P.E., Lakeside Equipment Corporation; Tim Shudt, Chief Operator, Lake George Wastewater Treatment Plant
For years, the Village of Lake George had been receiving septage for treatment at their WWTP. Haulers would come and dump their waste directly into the existing clarigester. There was no screening, so all the non-biodegradable solids, rocks, and grit were being dumped directly into the treatment process. This existing method for septage receiving was messy and smelly. Additionally, there were no controls or tracking over how much was being dumped by the haulers. Frequently, large volume septage trucks were coming in and claiming they didn’t have full load and there was no way to verify their claims.

10:00 am  Coffee Break in Exhibit Hall (City Center)

11:00 am  Mixing Zone Dilution Modeling for an Industrial Outfall Reconfiguration for SPDES Permit Renewal
Claire Superak, Arcadis
Surface water discharges are permitted in New York through the State Pollution Discharge Elimination System (SPDES) program. Dilution in a mixing zone can be used to meet SPDES permit requirements. The Cornell Mixing Zone Expert System (CORMIX) is a program that can model discharges in critical mixing conditions to meet water quality standards. Learn how a local industrial facility used CORMIX modeling to propose an outfall reconfiguration to obtain 100:1 dilution for their SPDES permit renewal.

11:30 am  Semiconductor Wastewater Pretreatment
Jason Rathbun, Albert Franz, GLOBALFOUNDRIES
This presentation will describe how the EPA’s Categorical Pretreatment Standards are incorporated into a discharge permit with local POTW limits and how a company like GLOBALFOUNDRIES engineers pre-treatment systems to manage compliance in a rapidly changing industry.

Tuesday, June 11, 2019

Session 4 – Water Reclamation Potpourri  (Broadway 2)

Moderators  Lauren Livermore, Barton & Loguidice, DPC; Ryan Waldron, NYSDEC
Contact Hours:  2.0 Engineer  2.0 Wastewater

9:00 am  Clarifier Problems: When Will They Ever Learn?
John Esler, Clarifier Performance Evaluations, Inc.
This is a presentation of the findings at a new 24 mgd WRF in Canada that was unable to meet its performance conditions due to clarifier design limitations.

9:30 am  Minimizing Mixing Energy in Activated Sludge Selector Basins – A Mixing Energy Pilot Study
James Fischer, Xylem Water Solutions
With the goal to minimize energy consumption in the biological nutrient removal (BNR) process, a mixing energy pilot study was conducted at Milwaukee MSD’s South Shore Water Reclamation Facility in Oak Creek, Wisconsin. Results show that power consumption of only 0.28 W/m³ is sufficient to fully homogenize activated sludge using a submersible horizontal low-speed adjustable-thrust propeller (SHLSATP) mixer.

10:00 am  Coffee Break in Exhibit Hall (City Center)

11:00 am  Rare Earth Technology in Wastewater Treatment
Logan Wherry, Neo Water Treatment
As environmental regulations continue to restrict the discharge of phosphorus from wastewater treatment facilities, traditional methods of phosphorus removal are proving inadequate. The use of the rare earth chloride solution has been studied and implemented in several municipal and industrial wastewater treatment facilities that must meet a phosphorus discharge limit of 0.1 mg/L or lower. Additional benefits including reduction in sludge volume, enhanced clarifier performance, and improved dewatering capabilities have been observed at these facilities.
Historically, some solid waste management programs considered biosolids handling as hazardous waste. However, the solids line has great potential for resource recovery, water, energy, nutrients and biosolids. Regulation that governs the use and disposal of biosolids generated during the treatment of municipal wastewater is incorporated in NPDES permits, and depends vastly on the intended end-use of the biosolids. Therefore, depending on the local needs for biosolids, the optimum end product quality may vary across sites. A pre-selection tool was developed to account for the most efficient combination of biosolids management and for the desired bio-solids product quality.

Tuesday, June 11, 2019
Session 5 – Humanitarian Assistance around the Globe  *(Broadway 3)*

**Moderators**
Robert Adamski; Karen Stainbrook, NYSDEC

**Contact Hours:** 2.0 Engineer  0.5 Wastewater‡  2.0 Water

**9:00 am**
AguaClara: Empowering Communities Through Safe Water
Yitzy Rosenberg, Cornell University; Subhani Katugampala (former AguaClara Reach Engineer); May Shariff, AguaClara Reach

AguaClara offers an alternative to the electricity-dependent drinking water treatment systems typical in the United States, which are unsustainable and cost prohibitive in low- and middle-income countries (LMIC). AguaClara created water treatment technologies that are gravity-powered, cost-effective, and easy to operate. This is made possible through a partnership of AguaClara Cornell, the research and development arm, and AguaClara Reach, the non-profit implementing designs, providing construction support, and training local operators.

**9:30 am**
Corporate Social Responsibility (CSR) in Water and Sanitation
Bjorn Von Euler

This presentation will demonstrate how a corporation fulfills its social responsibility using examples of providing water, sanitation and health (WASH) worldwide and domestically.

**10:00 am**
Coffee Break in Exhibit Hall (City Center)

**11:00 am**
Rainwater Harvesting Project, Misuuni, Kenya
Salvador Bentolila, AECOM

In 2016, Engineers Without Borders initiated the Water Project in Misuuni, Kenya, to design and build a rainwater harvesting system at two primary schools. This system will provide clean and sustainable water to 2,000 students. After raising enough funds, the system was successfully installed within schedule and budget on August 2018. This presentation will describe the system features, challenges and lessons learned.

**11:30 am**
New York City’s Water Operators Partnership on Climate Change Resiliency with the Asian Development Bank and the Water Authorities of Fiji and Samoa‡
Mikael Amar, Dennis Stanford, Pamela Elardo, NYC DEP; Nathaniel Kimball, NYC Mayor’s Office

The City of New York has entered into an Asian Development Bank Water Operators Partnership with the Water Authorities of Fiji and Samoa in order to provide targeted guidance on sustainable water and wastewater service delivery, building capacity of operators to complement engineering and technological advancements and innovation, and integrating climate change adaptation into capital planning. This presentation will detail the partnership, its deliverables, and the importance of knowledge sharing among utilities around the world.
Tuesday, June 11, 2019

**Session 6 – Utility Management Potpourri** *(Broadway 1)*

**Moderators**
Peter Frick, ADS; Christina Chiappetta, NYSDEC

**Contact Hours:**
2.0 Engineer  2.0 Wastewater  2.0 Water

**1:30 pm**
**Multiple Benefits of a Master Plan: Using Master Planning as a Tool for Shaping Both the Infrastructure and Organization of a Utility**  
Walt Walker, Sundaram Solai, Jean Malafronte, Greeley and Hansen  
While municipal utilities work their way towards becoming a Utility of the Future, they must also develop a plan to address their capital improvement needs while managing customer rate increases. This presentation will provide insight into the facilitated workshop approach to developing a multi-purpose master plan: a capital plan that prepares for the future needs, provides an opportunity to clearly define and map the strategic goals of an organization, and also considers rate affordability opportunities.

**2:00 pm**
**How Much Is Too Much? New Approaches to Water Service Affordability Measurement**  
Zachary Green, John Mastracchio, Raftelis  
The American Water Works Association (AWWA), the National Association of Clean Water Agencies (NACWA), the Water Environment Federation (WEF), Raftelis, and other partners are working on a joint project to outline how the water sector believes the issues of household-level affordability and community financial capability should be addressed and how EPA's existing guidance should be revised or replaced. This presentation will provide a research update, detailing the latest concepts in affordability and financial capability measurement.

**2:30 pm**
**Coffee Break in Exhibit Hall** *(City Center)*

**3:30 pm**
**Real Life Is Too Complicated for “Simple Payback.” Don't Ever Use It Again.**  
Dennis Clough, ESG  
When a utility evaluates if a capital investment to reduce operating costs or create new revenue is worth completing, simple payback is often a criteria used. The problem is that simple payback as the criteria is, at best, subjective and arbitrary. So what to do instead. This presentation highlights alternative financial evaluation methods (20-year macro budget comparison, annualized cashflow modeling, and required asset buy-down models) to support the utility's decision process on capital investments.

**4:00 pm**
**Are You Actually Using Your Data? Going from Collection to Action to Solve Real-World Problems**  
Susan Guswa, Woodard & Curran  
Utilities collect a vast amount of data about their operations, but many are not applying that data to solve real-world problems. In order to make the transition from collecting data to using it effectively, utilities need to understand what data they have and how to analyze it to gain useful insights. This presentation will use real-world examples to show attendees how to make the most of the data they already collect.

**Tuesday, June 11, 2019**

**Session 7 – Nutrient Removal Strategies and Technologies** *(Broadway 2)*

**Moderators**
Mark Greene, OBG, Part of Ramboll; Randy Ott, GP Jager, Inc.

**Contact Hours:**
2.0 Engineer  2.0 Wastewater

**1:30 pm**
**Nutrient Removal Strategies for Wastewater Treatment Facilities with Limited Available Space**  
A.J. Brooks, Arcadis  
As a result of State Pollution Discharge Elimination System (SPDES) permits renewals, wastewater treatment facilities (WWTFs) are being required to meet more stringent nutrient limits. Many WWTFs do not have adequate space to add additional infrastructure—be it new aeration tanks, secondary clarifiers or tertiary filters—to meet these limits. This presentation will discuss options that WWTFs have to meet their nutrient removal requirements without significantly impacting footprints in space-limited sites.
2:00 pm  |  Optimizing the Upper Blackstone WWTF to Achieve Sustainable Nutrient Removal
Alexandra Bowen, Jane Madden, CDM Smith
Permit limits for nitrogen and phosphorus continue to be reduced at facilities in the Chesapeake Bay watershed to reduce eutrophic and hypoxic conditions in receiving waters. The ability to sustainably achieve revised nutrient permit standards using existing infrastructure is paramount to successful operation and customer satisfaction. The Upper Blackstone Water Pollution Abatement District in Worcester, Massachusetts, has optimized their Enhanced Biological Nutrient Removal system to consistently achieve <6 mg/L Total Nitrogen and <0.3 mg/L Total Phosphorus with an A2O process (anaerobic-anoxic-oxic) without final filtration and with limited and targeted chemical addition. This presentation will describe the tools the District uses to achieve the best possible effluent quality with their existing system.

2:30 pm  |  Coffee Break in Exhibit Hall (City Center)

3:30 pm  |  Cost Effective Nitrogen Removal Augmentation with MABR
Amit Kaldate, Dwight Houweling, Graham Best, Suez
Membrane Aerated Biofilm Reactor (MABR) is an innovative technology that facilitates process intensification by increasing capacity of existing infrastructure and minimizing aeration energy. MABR process employs gas permeable membrane to deliver oxygen to biofilm. The availability of oxygen at the media surface encourages attachment of nitrifiers. Preferential growth of nitrifiers in a counter-diffusional biofilm is a key differentiator of MABR. This presentation discusses system performance data from full-scale and pilot-scale plants of ZeeLung MABR technology.

4:00 pm  |  Aerobic Granular Sludge Technology: An Innovative Wastewater Treatment Solution
Brian Bates, Aqua-Aerobic Systems, Inc.
Within a single tank, the AGS system creates proper conditions to reliably maintain a stable granule without the need of carriers. Due to the layered microbial community within the granule structure, simultaneous processes take place in the granular biomass, including EBPR, and simultaneous nitrification/denitrification. Extracellular polymeric substance (EPS) biopolymer, produced by bacteria, forms the backbone of the granule. These granules enable the system to better withstand adverse conditions compared to conventional systems.

Tuesday, June 11, 2019
Session 8 – Exhibitor Mobile Session  (City Center)
Moderators  Richard Pope, Hazen and Sawyer; Mike Kessler, Town of Tonawanda
Contact Hours:  1.0 Engineer  1.0 Wastewater
Welcome to NYWEA's Spring Conference Exhibitor Mobile Session! The Mobile Session will consist of three 20-minute Exhibitor presentations. Attendees will hear and see technical and educational presentations combined with equipment and/or hands-on visuals of innovative products by Exhibitor experts.

Prior sign-up required. Attendees are asked to meet at Booth 12 (INVENT)

1:30 pm  |  Innovative Mixing Technology
Patrick O’Donnell, INVENT Environmental Technologies, Inc.

1:50 pm  |  Chopper Pump Overview
Ken Grauer, Vaughan Company Inc.

2:10 pm  |  Screw Press Dewatering Applications for Small WWTPs
Dan Fronhofer, BDP Industries

2:30 pm  |  Coffee Break in Exhibit Hall (City Center)
Wednesday, June 12, 2019
Session 9 – Disinfection Challenges and Technologies *(Broadway I)*

**Moderators**
Pradeep Jangbari, NYSDEC; Tim Clayton, Surpass Chemical

**Contact Hours:** 2.0 Engineer 2.0 Wastewater 0.5 Water

**9:00 am**
**Disinfection – A Planning Guide to Sustainable Design**
Magdalini Katehis, Lina Posso, Bernardo Vazquez-Bravo, Jorje Carvajal, Pillutla Srishti, Greeley and Hansen

In an effort to improve the quality of the aquatic environment, total residual chlorine (TRC) discharge limits are becoming progressively more stringent. This presentation examines the longterm greenhouse gas (GHG) footprint and energy consumption of two disinfection alternatives, chlorination and de-chlorination and UV-disinfection including construction and operation over the life of the system. The study relies on energy and greenhouse modeling as well as full-scale design data and modeled plant scenarios for a desktop analysis. The analysis is targeted towards design and sustainability professionals, planners and municipalities interested in sustainability.

**9:30 am**
**Dechlorination: Meeting a New TRC Limit at NWQ WRRF**
Hannah Rockwell, Arcadis; Justin Slentz, Monroe County Department of Environmental Services

How to respond to a lower total residual chlorine (TRC) limit? The results of a chlorine study, CORMIX evaluation, and the design/construction of a new dechlorination system in response to a revised TRC limit at the Monroe County Northwest Quadrant WRRF will be covered from both engineering and operations perspectives. This project employed a collaborative, workshop-based project approach in order to bring a new dechlorination system online using 60 percent design drawings while meeting an aggressive, fast-tracked schedule.

**10:00 am**
**Coffee Break**

**10:30 am**
**UV Disinfection – Open Channel vs. Non-Contact Equipment Applications**
Taylor Bottar, Jesse Semanchik, Barton & Loguidice, DPC

Effluent disinfection via ultraviolet (UV) light continues to grow in New York’s wastewater industry as existing chemical disinfection systems age and State Pollution Discharge Elimination System (SPDES) requirements become more stringent. Design engineers and facility operators have many options to choose from during the UV disinfection equipment selection process. This presentation will focus on open channel and non-contact UV disinfection equipment alternatives, highlight critical design and operational considerations, and explore case studies from recent capital projects in the Village of Malone, Village of Potsdam and Town of Niskayuna.

**11:00 am**
**Why Does Everyone Want to Put UV Systems Underwater in Open Channels?**
Bruce Stevens, Bree Tremblay, Aquionics Inc.

UV systems have replaced older chlorine contact basins with surprising ease using pipeline reactors to avoid the pitfalls and danger of open channel UV. This presentation focuses on successful installs with over 20 years of history and new developments in the technology that will be of value on future systems.
Wednesday, June 12, 2019
Session 10 – Sustainability / Ethics (Broadway 2)

Moderators Vijesh Karatt Vellatt, Greeley and Hansen; Kathryn Serra, CT Male

Contact Hours: 2.0 Engineer 1.0 Wastewater‡ 2.0 Water

9:00 am The Power of a Sustainable Plan: Delivering Electrical Upgrades Projects with Long-Term Vision‡
Michael Morris, Brian R. Goldman, Jay Bielanski, Greeley and Hansen
The electrical distribution system at Water Resource Recovery Facilities (WRRFs) provides the power for nearly everything, and by extension the electrical system is highly critical equipment. Sustainable electrical projects tend to focus on energy and resiliency for climate change primarily, and sustainable planning for WRRF electrical systems must be expanded to factor in long-term planning. This presentation is a case study of electrical upgrade projects at NYCDEP Bowery Bay WRRF and WSSC Piscataway WRRF, where sustainable electrical master planning was expanded to consider reliability, safety, maintainability, monitoring and flexibility for maximum uptime over the years to come.

9:30 am Use of AI for Mitigating Nitrous Oxide Emissions from WRRFs‡
Jose Porro, Giacomo Bellandi, Cobalt Water Global
As water utilities around the world, such as in New York City, Amsterdam and Australia, pledge carbon neutrality goals in response to the Paris Agreement and in efforts to be more sustainable, addressing nitrous oxide emissions from WRRFs becomes imperative. Two case studies in which N2O has been reduced by 40 percent and 80 percent of the electric and N2O carbon emissions from WRRFs in the Netherlands using an AI-based N2O risk model will be presented.

10:00 am Coffee Break

10:30 am Engineering Ethics
Robert Kukenberger, CDM Smith
Engineers are expected to exhibit the highest levels of honesty, integrity and excellence in their professional work and everyday lives. This session will provide an interactive discussion on the meaning of ethics with a focus on safety, health and welfare of the public. The presentation will also cover the responsibilities of engineers for ethical behavior in their own work, and how to deal with observed unethical behavior in others.
NYWEA Operations Challenge

Monday

8:30 am–10:30 am
10:30 am–11:30 am
11:30 am

Operations Challenge

Wednesday

8:30 am–4:30 pm
3:00 pm–4:00 pm
4:30 pm–5:30 pm

Tuesday

8:30 am–10:30 am
10:30 am–11:30 am
11:00 am

June 10, 2019

Equipment Set-Up (City Center)
Team and Judges Meeting (Broadway 3-4)
Process Control Event

June 11, 2019

Operations Challenge Competition
Operations Challenge Sludge “Challenge”
Reception in City Center/5S Ceremony
Operations Challenge Awards

Come and join in the excitement! Operators from across New York State compete for the right to be champions and compete in the National Competition at WEFTEC in Chicago, Illinois, in September. The first event kicks off Tuesday at 8:30 am. Awards will be presented at the Awards Ceremony that evening. Come and see the best wastewater collection and treatment personnel 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 samples representing a normal treatment process for total suspended solids and conductivity/Total Dissolved Solids. They will also calculate a solids mass balance across the treatment system to evaluate the removal efficiency of various treatment trains and other data related to solids.

Process Control Event
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
A utility has been experiencing a multitude of problems at their pump/lift stations due to pumps ragging with “flushable” wipes. A pump trouble alarm was received via the SCADA system at the Operations Control Center. A crew has been dispatched to troubleshoot the alarm. The teams will need to troubleshoot the electrical control panel, troubleshoot and perform routine maintenance on the KSB submersible pump and wet well, and then ultimately restore the pump station back to normal operating condition.

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.
32nd Annual Operations Challenge

New York WEA
LONG ISLAND CHAPTER
Brown Tide
Jake Miller
James Behr
Rob Jentz
Nick Barresi
Hector Soto
(Chair/Alternate)

METROPOLITAN CHAPTER
Rockaway Sludge Hustlers
Robert Ferland
Ray Antenucci
Robert Ortiz
Yu-Tung Chan
Joe Atkins (Alternate)
Howard Robinson (Coach)

Bowery Bay Coyotes
Chris Reyes
Anthony Quadrino
Dragan Pelovic
Andrew Luong
Howard Robinson (Coach)

LOWER HUDSON CHAPTER
Watershed Warriors
Kenneth Taylor
Bruce Decker
Matthew Burd
Eric Albano
Daniel Byrne (Alternate)
Erik Coddington (Coach)

CENTRAL CHAPTER
Mixed Liquors
Michael B. Burkett
Dave Cunha
Dean Ellsworth
Derrick Rawson
Casey Clark (Alternate)

New Jersey WEA
Jersey Devils
Kevin Barstow
Emily Zidanic
Jim Collins
Adam Sheick
Tim Fisher, Sr. (Coach)

Resource Revolutionaries
Kevin Peterson
Daniel Rowe
Lorenzo Seijo
Nuno DaSilva
Nicholas Kubikbock
William Donovan (Chair/Alternate)

GENESEE CHAPTER
Genesee Valley
Water Recyclers
Michelle Hess
Lucas Kasperowicz
Tony Filer
Will Monier
Harley Hancy (Alternate)
Tim Vandermeid (Alternate)

GENESEE CHAPTER
Water Recyclers
Michelle Hess
Lucas Kasperowicz
Tony Filer
Will Monier
Harley Hancy (Alternate)
Tim Vandermeid (Alternate)

2019 Operations Challenge Judges

<table>
<thead>
<tr>
<th>EVENT</th>
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Operations Challenge 2019 Coordinators

Overall Coordinators: John Fortin, Hazen and Sawyer;
Howard Robinson, NYCDEP; Donna Bee, Village of Northport

Score Keeping Judges: John Fortin, Joe Massaro

Support Staff: Bill Grandner

A Special Thanks to Donna Bee for the Regional Coordination
Meet the Operations Challenge Team Members!

Long Island Brown Tide: (l-r) Nick Barresi, Hector Soto, Jake Miller, Rob Jentz and James Behr

Central’s Mixed Liquors: (l-r) Dean Ellsworth, Derrick Rawson, Michael Burkett, Dave Cunha and Casey Clark

NJWEA’s Jersey Devils: (l-r) Kevin Barstow, Adam Scheick, Emily Zidanic, Coach Tim Fisher Sr. and Jim Collins

(DEP) Rockaway Sludge Hustlers: (l-r) Yu-Tung Chan, Robert Ferland, Ray Antenucci and Robert Ortiz
Genesee Valley Water Recyclers: (l-r) Lucas Kasperowicz, Harley Hancy, Will Monier, Michelle Hess, Tony Filer and Tim Vandermeid

Long Island Resource Revolutionaries: (l-r) Dan Rowe, Nick Kubibock, Nuno DaSilva, Lorenzo Seijo, Kevin Peterson

Metropolitan Bowery Bay Coyotes: (l-r) Andrew Luong, Chris Reyes, Anthony Quadrino and Dragan Pelovic

Lower Hudson Watershed Warriors: (l-r) Coach Erik Coddington, Eric Albano, Matt Burd, Captain Ken Taylor and Bruce Decker

NJWEA’s Riptide: (l-r) back, Keith Wagner, Joe Ciccotelli; front, Captain Steve Dalbow and Eric Hansen

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Lifestyle Program

12:00 pm
Lunch, Olde Bryan Inn
123 Maple Avenue, Saratoga Springs
Meet at Registration Desk at 11:45 am

2:00 pm
Tour of the National Museum of Racing and Hall of Fame
Founded in 1951 in Saratoga Springs, New York, the museum honors the achievements of American thoroughbred race horses, jockeys and trainers. The museum houses a large collection of art, artifacts and memorabilia documenting the history of horse racing from the eighteenth century to the present.
$100 (includes lunch, tour and dinner)

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<td>D&amp;B Engineers and</td>
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<td>OBG, Part of Ramboll</td>
<td>Koester</td>
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<td><strong>Young Professional Event</strong></td>
<td><strong>Mobile Charging Station</strong></td>
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## Exhibitors

<table>
<thead>
<tr>
<th>Aftek, Inc.</th>
<th>General Control Systems, Inc. (GCS)</th>
<th>Neo Water Treatment – Neo Performance Materials</th>
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<tr>
<td>Arold Construction</td>
<td>G.P. Jager Inc.</td>
<td>Northeast Controls</td>
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<td>BDP Industries, Inc. / Koester Associates</td>
<td>Hach</td>
<td>PCS Pump &amp; Process</td>
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<td>Bioscience, Inc.</td>
<td>INVENT / Thermal Process Systems / Koester</td>
<td>Poly Processing / Koester</td>
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<td>C2AE</td>
<td>J. Andrew Lange, Inc.</td>
<td>Presby Environmental</td>
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<td>CUES</td>
<td>Koester</td>
<td>Sanitaire / Koester</td>
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<td>Duke’s Root Control</td>
<td>M.J. Engineering and Land Surveying, PC</td>
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<td>Emmons Pump and Control, Inc.</td>
<td>Maryland Biochemical Company, Inc.</td>
<td>The Chazen Companies</td>
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<td>Erdman Anthony</td>
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<td>Flygt a Xylem Brand</td>
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<td>USABlueBook</td>
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<td>G.A. Fleet Associates</td>
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<td>Wright-Pierce</td>
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## Advertisers

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<thead>
<tr>
<th>BDP Industries, Inc.</th>
<th>Mace Contracting Corporation</th>
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<tr>
<td>Cameron Engineering</td>
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<td>Harper-Haines Fluid Control</td>
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<td>JDV Equipment Corporation</td>
<td>TECSmith, Inc.</td>
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<td>Koester</td>
<td>Wright-Pierce</td>
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</table>
Pumping Equipment

- **AMERICAN-MARSH PUMPS**
  - Vertical Turbine
  - End Suction

- **FLOWROX**
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- **asa ANALYTICS**
  - ChemScan® Process
  - On-Line Analyzers

- **PSI PROCESS**
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  - Drives Soft Starts

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  - Fine & Drum Screens
  - Tertiary Sand Filter

- **Franklin**
  - Size Reduction Equipment

- **mjk**
  - Process Instrumentation Equipment

- **WTP**
  - Grit Collection
  - Grit Washing
  - Classification Transport

- **PHOENIX**
  - Thickening and Dewatering Equipment

Wastewater Biological Treatment Processes

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  - Sequencing Batch Reators (SBR)

- **BRENTWOOD**
  - Sludge Collectors,
  - Trickling Filters and Biological Treatment

- **Glasco**
  - UV Chemical-Free 4-log Virus Disinfection

- **ACTIVECELL**
  - MBBR, IFAS,
  - HIT™ Integrated Treatment Systems

- **MONROE ENVIRONMENTAL**
  - Clarifiers & Wet
  - Scrubbers

- **Process Solutions**
  - Aeration & Mixing

- **PHi**
  - Pulsed Hydraulics Inc.
  - Hydro Pulsed Mixing Systems

- **UI**
  - Positive Displacement,
  - Enviro-Pak, High Speed Turbo Blowers

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  - Water Treatment using Chlorine gas

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  - Dosing, Disinfection & Instrumentation

- **TIGG**
  - Activated Carbon Filtration Equipment
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  - Phoenix Underdrain System

- **FILTER Magic**
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# 2019 Spring Meeting-At-A-Glance

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td><strong>Sunday, June 9, 2019</strong></td>
<td></td>
<td><strong>(Registration Hours: 1:00 pm–4:00 pm)</strong></td>
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<tr>
<td></td>
<td>9:00 am–11:00 am</td>
<td>NYWEA Executive Committee Meeting.</td>
<td>Whitney</td>
</tr>
<tr>
<td></td>
<td>12:00 pm–3:00 pm</td>
<td>NYWEA Board of Directors Meeting</td>
<td>Broadway1 &amp; 2</td>
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<tr>
<td></td>
<td></td>
<td>Reception</td>
<td>Gallery</td>
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**Monday, June 10, 2019** *(Registration Hours: 7:30 am–4:30 pm)*

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>8:00 am–10:30 am</td>
<td>Opening Session (Breakfast served 7:30 am–9:30 am).</td>
<td>Saratoga 1 &amp; 2</td>
</tr>
<tr>
<td>8:30 am–10:30 pm</td>
<td>Operations Challenge Equipment Set-Up</td>
<td>Exhibit Hall (City Center)</td>
</tr>
<tr>
<td>10:30 am–11:30 pm</td>
<td>Operations Challenge Team Meeting/Process</td>
<td>Broadway 3 &amp; 4</td>
</tr>
<tr>
<td>10:00 am–5:00 pm</td>
<td>Exhibits Set-Up</td>
<td>Exhibit Hall (City Center)</td>
</tr>
<tr>
<td>11:30 am</td>
<td>Operations Challenge Process Control Event</td>
<td>Exhibit Hall (City Center)</td>
</tr>
<tr>
<td>12:00 pm</td>
<td>Lifestyle Program Lunch, Tour and Dinner (Meet at 11:45 am.) Registration Desk</td>
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*Includes lunch at Olde Bryan Inn, tour of National Museum of Racing and Hall of Fame (1 hour), dinner*

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>12:00 pm–1:30 pm</td>
<td>Lunch</td>
<td>Saratoga 1 &amp; 2</td>
</tr>
<tr>
<td>12:30 pm–5:30 pm</td>
<td>Golf Outing (Transportation on your own) Saratoga National</td>
<td></td>
</tr>
<tr>
<td>1:30 pm–3:30 pm</td>
<td>Environmental Science Tour, GLOBALFOUNDRIES (Meet at 12:30 pm in the Hotel Lobby)</td>
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</tr>
<tr>
<td>1:30 pm–4:00 pm</td>
<td>Technical Session 1: Collection System and Hydraulic Modeling Potpourri</td>
<td>Broadway 1</td>
</tr>
<tr>
<td>1:30 pm–4:00 pm</td>
<td>Technical Session 2: Energy Conservation and Efficiencies</td>
<td>Broadway 2</td>
</tr>
<tr>
<td>2:30 pm–3:30 pm</td>
<td>Coffee Break</td>
<td>Gallery</td>
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<tr>
<td>6:00 pm–7:00 pm</td>
<td>Reception</td>
<td>Offsite, Canfield Casino</td>
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<tr>
<td>7:00 pm–8:30 pm</td>
<td>Dinner</td>
<td>Offsite, Canfield Casino</td>
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**Tuesday, June 11, 2019** *(Registration Hours: 7:30 am–4:30 pm)*

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>6:15 am</td>
<td>Fun Run/Walk (Meet in Hotel Lobby)</td>
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<tr>
<td>7:00 am–8:00 am</td>
<td>Exhibit Set-up</td>
<td>Exhibit Hall (City Center)</td>
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<tr>
<td>7:30 am–8:30 am</td>
<td>Collections Committee Meeting</td>
<td>Philadelphia</td>
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<tr>
<td>8:00 am–9:00 am</td>
<td>Breakfast with Exhibitors</td>
<td>Exhibit Hall (City Center)</td>
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<tr>
<td>8:00 am–5:30 pm</td>
<td>Exhibit Hall Open</td>
<td>Exhibit Hall (City Center)</td>
</tr>
<tr>
<td>8:30 am–4:30 pm</td>
<td>Operations Challenge Competition</td>
<td>Exhibit Hall (City Center)</td>
</tr>
<tr>
<td>9:00 am–12:00 pm</td>
<td>Technical Session 3: Municipal and Industrial Challenges in the Capital Region</td>
<td>Broadway 1</td>
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<tr>
<td>9:00 am–12:00 pm</td>
<td>Technical Session 4: Water Reclamation Potpourri.</td>
<td>Broadway 2</td>
</tr>
<tr>
<td>9:00 am–12:00 pm</td>
<td>Technical Session 5: Humanitarian Assistance around the Globe</td>
<td>Broadway 3</td>
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<tr>
<td>10:00 am–11:00 am</td>
<td>Coffee Break</td>
<td>Exhibit Hall (City Center)</td>
</tr>
<tr>
<td>10:00 am–11:00 am</td>
<td>Pretreatment/Industrial Wastewater Committee Meeting</td>
<td>Broadway 4</td>
</tr>
<tr>
<td>10:00 am–11:00 am</td>
<td>Public Outreach Committee Meeting</td>
<td>Philadelphia</td>
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</tbody>
</table>
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