Virtual Spring Technical Conference & Exhibition
Bringing Back Onondaga Lake

Attendee Registration Link.

Speaker Evaluation (tinyurl.com/SpeakerEvalSp21)

Cover photo: Tim Markert, Baldwinsville, NY
Our Exhibitors

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2021 Spring Technical Conference & Exhibition
“Bringing Back Onondaga Lake”

Opening Session

8:30 am  Welcome! President Lauren Livermore
8:45 am  Historic Perspectives on Onondaga Lake, Robert Kukenberger, CDM Smith
9:00 am  Onondaga County Water Environment Protection, Shannon Harty, Acting Commissioner
9:15 am  Honeywell Wrap Up, Shane Blauvelt
9:30 am-10:00 am  Break

Tuesday, June 15, 2021

Session 1: Bringing Back Onondaga Lake – Part 1

Contact Hours  1.5 PDH  1.0 Wastewater*
Moderators  Greg Palmer, Koester; Nancy Vigneault, CDM Smith

1.1  Deicing Collection at the Syracuse Airport*
Benjamin Tillotson, Benjamin Taylor, Arcadis
In this presentation, Arcadis engineers Benjamin Tillotson, PE and Benjamin Taylor, EIT will review methods to collect, convey, store and preliminary treat spent deicing fluid, as completed on a recent project for the Syracuse Hancock International Airport.

1.2  Onondaga Lake Boat Launch
Erin Rankin, Ramboll; Stephen Miller, John McAuliffe, Honeywell
The NYSDEC’s Kenneth P. Lynch Boat Launch opened in Fall 2020, providing a publicly accessible facility for accessing Onondaga Lake. The design and construction was overseen and funded by Honeywell as an Environmental Benefit Project. The facility includes a double-wide motor-boat launch, a fishing platform, car-top boat launch area, two picnic areas, and extensive parking, among other features. ADA access was incorporated into the design and construction. The project was a coordinated effort involving Honeywell and the NYSDEC.

Exhibit Video Break featuring Koester Associates; Barton & Loguidice; Jacobs

1.3  GI Complimenting Gray:
How Onondaga County Successfully Integrated GI into Their CSO Abatement Program*
Zachary Monge, Jacobs; Frank Mento, Adam Woodburn, Onondaga County
The presentation will focus on the successful integration of GI into the CSO Program, something that had never been done to such a large scale anywhere in the U.S. before. The County’s GI accounts for more than 25% of the CSO reduction achieved to date.

12:10 pm-1:00 pm  Exhibitor Networking – Remo Lunch
Scavenger Hunt (Opportunity to win a $150 gift card!)
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Session 2: Collection Systems and Distribution

Contact Hours 1.5 PDH 1.5 Wastewater

Moderators Vatche Minassian, HDR; Daniel O'Sullivan, Buffalo Sewer Authority

2.1 Pressure Sewer Asset Management Plan, Marion, Massachusetts
Henry Albro, F.R. Mahony & Associates–Cummins-Wagner
Much has changed since the 1972 EPA report on the pressure sewer demonstration in New York State. Product improvements and decades of experience provides reliable data to permit deeper understanding of long-term costs of operation. Engineers who routinely perform construction cost comparisons will be able to compare O&M costs under a fully functional asset management program.

2.2 Winning the War against Wipes
Joe Clark, JWC Environmental
Our aging wastewater infrastructure was not designed to handle flushable wipes and other non-dispersible fabrics popular in today’s market. This presentation will review today’s status of the wipes market, PSA and legal efforts to curb disposal of non-dispersibles in sewage systems as well as look at technical options in pumps and grinders to pre-condition these difficult solids in collection systems. The overall goal is to provide information on the various options available to battle these wipes.

Exhibit Video Break featuring GA Fleet Associates; Wendel

2.3 Sixty Communities, 270 Square Miles – Local Sewer System Evaluation Studies Provide a Roadmap for the Northeast Ohio Regional Sewer District and Member Communities to Improve Sewer Systems
Kevin VanderTuig, Wade Trim
This presentation describes Sewer System Evaluation Studies (SSES) implemented by Northeast Ohio Regional Sewer District (NEORSD) to support District initiatives to address water quality and quantity problems associated with sanitary sewer infrastructure. The SSES projects were implemented at a planning level to use existing information and new field investigations, flow and rainfall monitoring, and sewer system hydrologic/hydraulic modeling to support District and member communities’ understanding of system performance and regional water quality. The projects also developed and optimized feasible system improvement alternatives and prioritized potential solutions to address the problems identified. ArcGIS Online (AGO) was used extensively for planning, field investigations and documenting results.

12:10 pm-1:00 pm Exhibitor Networking – Remo Lunch
Scavenger Hunt (Opportunity to win a $150 gift card!)

Tuesday, June 15, 2021

Panel: NYWEA DE&I Committee Introduction and Civil Service Panel Discussion

Moderators Walter Walker, Greeley & Hansen; Michelle Hess, Canandaigua Water Resource Recovery Facility

Speakers Dan Rourke, Saratoga County Sewer
Tim Murphy Albany County Water Purification District
Clem Chung, Monroe County Department of Environmental Services
Diversity, Equity and Inclusion is more than just checking boxes. NYWEA has taken a leadership role in addressing the DE&I challenges within the organization and the water industry in New York as a whole. This panel discussion will highlight the nuances of Civil Service and some of the challenges and experiences of utilities working through Civil Service requirements, accessibility, recruitment and recent changes. We invite all operators and public employee members to share their experiences and encourage all of our NYWEA members to join the discussion.
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Session 3: Bringing Back Onondaga Lake – Part 2

Contact Hours 1.5 PDH 1.5 Wastewater

Moderators Kara Pho, Jacobs; David Stahl, Dewberry

3.1 Onondaga County’s Contributions to Remarkable Onondaga Lake Water Quality Improvements
Janaki Suryadevara, Onondaga County; Frank Mento, Onondaga County Department of Water Environment Protection
Since 1999, Onondaga County has been complying with an Amended Consent Judgment (ACJ), which required upgrades to Metro.Control of combined sewer overflows (CSOs), an Ambient Monitoring Program. The major ACJ projects completed will be presented, with a summary of the water quality improvements that have been realized in Onondaga Lake. Water quality status of the CSO-receiving tributaries and the County’s remaining water quality obligations, post-ACJ will be provided.

David Matthews, David Andrews, David O’Donnell, Upstate Freshwater Institute; Anne Burnham, Parsons
A novel approach for controlling methylmercury in Onondaga Lake through targeted addition of nitrate to the lower waters of the lake was pilot tested during 2011-2013. The whole-lake pilot study resulted in a 94% reduction in peak methylmercury concentrations and full-scale nitrate addition in Onondaga Lake continues today. Results from the first nine years of nitrate addition are presented with a focus on operations and logistics required to successfully execute this large-scale project.

Exhibit Video Break featuring Jacobs

Exhibit Video Break featuring Koester Associates; Larson Design Group

3.3 Onondaga Lake Post-Remediation Surface Water Monitoring Results
Edward Glaza, Anne Burnham, Parsons; John McAuliffe, Steve Miller, Honeywell
The remediation of Onondaga Lake sediments, which included significant dredging and capping of contaminated sediment, began in 2012 and was successfully completed in 2016. This presentation will provide an overview of remedial activities as well as the long-term monitoring program, with a focus on the scope and results from surface water monitoring for VOCs, SVOCs, PCBs, and mercury completed in 2017 and 2018.

4:00 pm Women’s Happy Hour NYWEA Networking Event
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**Tuesday, June 15, 2021**

**Session 4: Optimizing Water Resource Recovery Facilities through Innovation**

**Contact Hours** 1.0 PDH* 1.5 Wastewater

**Moderators** Vince Rubino, Wade Trim; Amie Lenkowiec, HDR

**4.1 A Phoenix from the Ashes – Emergency Measures at the Greenfields Wastewater Treatment Plan***

Erin Moore, David Seche, Tighe & Bond; Jonathan Churins, Dutchess County Water & Wastewater Authority

The Greenfields WWTP is a small plant serving a community in Hyde Park, NY. Work to completely renovate the plant was days away from starting when tragedy struck. A fire resulted in complete destruction of the RBC secondary treatment system, aeration system, and chemical disinfection system. This presentation will discuss the fire response, discuss different concepts considered to meet effluent limits, and describe efforts to keep the facility running successfully while recovering from substantial damage.

**4.2 Mechanical Dewatering Optimization – Belt Filter Press and Decanter Centrifuges***

Sean Tierney, Alfa Laval

This presentation will cover the basics of mechanical solids dewatering for belt filter presses and high-speed centrifuges. It will focus on operation and basic mechanical preventive maintenance.

**Exhibit Video Break featuring Tighe & Bond; H2M architects + engineers; Surpass Chemical**

**4.3 Introduction of BDP’s Advanced Wastewater Treatment Technologies to the Most Comprehensive Test and Study by IRSTEA/INRAE of Low Dissolved Oxygen and High Efficiency of Biological Nutrient Removal**

Eric Li, BDP Enviro Tech

BDP held an authoritative pilot testing research with INRAE in France in 2018. The pilot test research result proved the Biological Double-efficiency Process (BDP®), is an advanced efficiency technology utilized for the biological treatment stage of the wastewater treatment process especially for nutrient removal and 50% energy and footprint reduction with low dissolved oxygen (DO), high mixed liquor suspended solids (MLSS) concentration.

**4:00 pm Women’s Happy Hour NYWEA Networking Event**

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**Tuesday, June 15, 2021**

**Session 5: Residuals & Biosolids**

**Contact Hours** 1.5 PDH 1.5 Wastewater

**Moderators** Camie Jarrell, GHD; Venessa Brabant, Arcadis

**5.1 Quantifying the Influence of Thermal Hydrolysis on the Operating Costs of Biosolids Management**

Bill Barber, Cambi Inc.

The aim of this paper is to show how thermal hydrolysis influences the economics of biosolids management with digestion. It will look at both capital and operating costs and show examples from other sites. The results of a financial model will be shared to highlight where the important costs are and show how these can be reduced. As well as comparing digestion, the work will show the impacts of other technologies such as drying.

**5.2 Is It Time to Think About Thermal Drying?**

Natalie Sierra, Brown and Caldwell

The author will explain current biosolids management trends that in the Northeast favor management through thermal drying. While capital intense, thermal dryers drastically reduce the volume of biosolids to be managed, which with current tip fees, significantly impacts overall project economics. Two recent and relevant case studies and associated economics will be presented.
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5.3 Water Reuse Prioritization for “Class A” Biosolids Processing
Bruce Stevens, Bree Trembly, Aquionics
Designing a UV system for High Level Disinfection to insure complete eradication of microbes in Re-Use water for Polymer Makeup and Dewatering System operations is critical to prevent pasteurized biosolids from reinfection. Working it through a D/B/T contract to implement a fast track $250-million upgrade is not easy.

4:00 pm Women’s Happy Hour NYWEA Networking Event
“Building Success by Overcoming Challenges”
(Hosted by President Lauren Livermore, moderated by Claire Baldwin)
The challenges we overcome in our careers and life ultimately help build our character and successful experience. Each of our career paths is unique. The challenges we face and solutions we create to keep moving forward are unique as well. However, we can all learn from each other’s approaches and use elements of these in creating our own success.
The following individuals have been invited to participate:
Julie Barown, J Andrew Lange
Lisa Derrigan, GHD
Shannon Harty, Onondaga County Department of Water Environment Protection
Victoria Johnson, Jacobs
Kenya Lewis, NYC DEP
Silvia Marpicati, Arcadis

Wednesday, June 16, 2021
Session 6: CSO/SSO/Wet Weather Issues
10:00 am-11:45 am
Contact Hours 1.5 PDH 1.5 Wastewater
Moderators Kathryn Serra, C.T. Male; Katie Mockler, Woodard & Curran

6.1 Many Utilities are Moving to Peak Wet Weather Flow Management to Handle Peak Flow and Prevent Untreated Overflows
John Dyson, Aqua-Aerobic Systems, Inc.
Elkhart, IN and many Indiana utilities have been working on the collection network for decades including the repair of the network and the addition of storage in the collection networks. After all the work that has been completed, work still remains which is leading many utilities to add peak wet weather flow management/treatment to part of the solution to prevent untreated overflows. Pile cloth media filtration has been on several Indiana projects for treatment of the peak wet weather flows during events. The presentation will cover several of the projects including evaluation, piloting, permitting process, revisions to the consent decree and design of the facilities.

6.2 New Primary Bio-Filter Achieves High-Rate Treatment for Wet Weather Inflows
Jonathan Liberzon, Tomorrow Water; Joseph Goergen, ARTP Genesee County Drain Commissioner-WWS (Flint, MI); Glen T. Daigger, University of Michigan (Ann Arbor, MI) David Rhu, Tomorrow Water (Anaheim, CA)
Biologically Active Filters (BAFs) used in wastewater treatment were originally limited to tertiary applications and later for secondary treatment. New developments have allowed BAFs to be applied in new configurations, including as replacements for primary settling tanks, high-rate wet weather treatment and SSO mitigation systems, and water reuse applications. A novel integrated primary and biological filter technology has demonstrated its potential for use in wet weather flow management.
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6.3 Impact of Rising Detroit River Levels on the Great Lakes Water Authority (GLWA) Collection System
Imad Salim, Ed Hogan, Deborah Bauer, Wade Trim
With higher Great Lakes levels forecasted, the Michigan Department of Environment, Great Lakes, and Energy requested NPDES permittees to complete a vulnerability analysis to evaluate impacts of higher river levels on collection systems and infrastructure. To supplement an existing river inflow mitigation program, GLWA performed an evaluation of hydraulic impacts on the Regional Wastewater Collection System for higher Detroit River levels. The project focused on river inflow, hydraulic impact of high river levels, and mitigation methods.

10:00 am-11:45 am
12:10 pm-1:00 pm NYWEA Networking – Remo Lunch

Wednesday, June 16, 2021

10:00 am-11:45 am
Session 7: Resiliency
Contact Hours 1.5 PDH 1.5 Wastewater 2.0 Water
Moderators Matt Manchisi, Kimley Horn and Associates; Kathy Amari, NYSDEC

7.1 Pump Station Resiliency and Flood Mitigation Strategies at Pump Stations
Daniel Roop, Amy Sowitcky, Tighe & Bond
Climate, along with regulation changes require municipalities to plan for higher flood levels than any time in history. As we help municipalities protect their infrastructure by upgrading facilities, we have utilized different approaches to address the structured concerns. We will review two case studies of pump station design approaches. The first approach is replacing the station, the second approach is to increase the strength of the existing structures. These studies will help provide insight for structure designs in similar situations.

7.2 Water Equitable Infrastructure Planning for a Climate Resilient Utility, Community and City
Walt Walker, Greeley and Hansen
Utilities across the region are exploring solutions to make their infrastructure and community more resilient in the face of continually changing climate. The purpose of this presentation is to share framework of climate resiliency planning; examples of a adaption strategies; lessons learned regarding holistic resiliency program approaches; and opportunities for rate-payer affordability, financial collaboration, funding, and community-driven approaches. This integrated systems approach could lead to efficiencies in infrastructure resiliency and achieving water equity for vulnerable communities.

7.3 Drainage Infrastructure Impacts and Solutions for New York City Transit (NYCT) Yard Resiliency
Anthony Falcone, HDR; Tim Groninger, HDR; Rashmi Shah, NYCT-CPM
Climate change and extreme weather events are becoming more and more frequent, impacting our transportation infrastructure. Updates to aging infrastructure will make our transportation infrastructure more resilient and reliable in these extreme weather events. Keeping our transportation infrastructure strong is critical to being a resilient City, but what does this mean for the underlying drainage networks? Upgrading and protecting drainage infrastructure is another important step in creating a resilient City.

12:10 pm-1:00 pm NYWEA Networking – Remo Lunch
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September 8, 12 PM EDT | Intelligent Pump Station Management
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Wednesday, June 16, 2021

1:30 pm-3:15 pm  Statewide Plant Tours/Essential Worker Thank You
NYWEA is excited to highlight three water resource recovery facilities across the state with an in-person tour during our Spring Technical Conference & Exhibition. We all are so thankful for our fellow wastewater professionals who keep these (and all facilities across the state) running 24/7/365.

Space is limited at each location so sign up now on the links below! Site-specific COVID and safety measures will be followed at each location. Please consider this an invitation to participate in an in-person tour at one of the following water resource recovery facilities:

Albany County Water Purification District North Treatment Plant
1 Canal Road South, Albany NY 12204
Sign up at: https://forms.gle/EhTgNTYwiMMtqTBu6

Monroe County Department of Environmental Services
Frank E. Van Lare Water Resource Recovery Facility
1574 Lakeshore Boulevard, Rochester, NY 14617
Sign up at: https://forms.gle/5rS8g1siq7prwk9W7

Onondaga County Department of Water Environment Protection Metropolitan Syracuse Wastewater Treatment Plant
650 Hiawatha Boulevard West, Syracuse NY, 13205-1194
Sign up at: https://forms.gle/MPbrra1dyhBVFYso7

3:45 pm-4:15 pm  Select Society of Sanitary Sludge Shovelers & Golden Manhole Society Ceremony via Zoom
Thank you and congratulations to the Brian Romeiser Pre-Certification Operator Scholarship winners!

Zachary Watts and Antwan Shaw are Operator Scholarship winners as well.

Well done, everyone!

Jarrett Hotaling

4:45 pm  YP Happy Hour Networking Event – Gather.Town! (See page 33 for details and registration.)
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### Wednesday, June 16, 2021

#### Session 8: Energy Conservation and Generation

**Contact Hours** 1.5 PDH  1.5 Wastewater

**Moderators** Pamela Elardo, NYC DEP; Jennifer Nechamen, The Chazen Companies

**8.1 Master Planning for Cost-effective Energy Management**

Tracy Chouinard, Kenny Klittich, Brown and Caldwell; Jordan Damere, Alexis Valenti, Fairfield Suisun Sewer District

Utilities are focusing on various energy management scenarios to implement cost effective energy management programs. Such programs primarily consist of cogeneration but can include wind or solar programs as well. Utilities can utilize all three to generate energy to work towards net zero energy consumption. This presentation focuses on the evaluation of the utilization of biogas for cogeneration, pipeline injection, or onsite vehicle fueling. It will relate economic evaluations of these systems to the area.

**8.2 Onondaga County Department of Water Environment Protection (OCDWEP) – Reducing Operational Costs through Capital Investment – An EPC Story**

Ryan C. Laninga, John Revette, Brian M. Sibiga, Timothy P. Dietrich, Wendel OCDWEP

OCDWEP developed a 2012 Climate Action Plan outlining initiatives to reduce greenhouse gas emissions throughout to meet OCDWEP’s goal of reducing emissions by 25% over 25 years. OCDWEP embarked on a comprehensive energy efficiency plan to meet this goal, which included improving the energy efficiency of its wastewater treatment plants. OCDWEP implemented the project at their WWTPs through the use of an innovative Energy Performance Contract project delivery model.

**Exhibit Video Break featuring GA Fleet Associates**

**8.3 Lessons Learned and Success of Striving for Energy Independence at the Oneida County WPCP**

John Story, Dale H. Lockwood III, Oneida County

Trends in the reduction of energy and utility costs will be presented as well as the recent commitment to expand with additional micro-turbines and ability to process more food waste, FOG and septage.

**3:45 pm-4:15 pm Select Society of Sanitary Sludge Shovelers & Golden Manhole Society Ceremony via Zoom**

**4:45 pm YP Happy Hour Networking Event – Gather.Town! (See page 33 for details and registration.)**

### Thursday, June 17, 2021

#### Panel: Humanitarian Assistance

**Moderators** Sana Barakat, Julie Le, Arcadis

**The Batey Relief Alliance Clean Water Program**

Ulrick Gaillard, Batey Relief Alliance (BRA); Jenna Saldana, El Porvenir; Jason Smith, Water Mission; James Harrington, Ugandan Water Project

**Ulrick Gaillard** is founder and CEO of the Batey Relief Alliance (BRA), a U.S.-based non-profit organization delivering humanitarian services to vulnerable populations in Peru, Haiti and the Dominican Republic, including clean drinking water. Since 2014, we’ve distributed, in partnership with the P&G Safe Drinking Water Program, 27.5 million water purifier sachets, delivering 275 million liters of safe drinking water to 290,000 people living in Dominican’s rural “batey” communities, Haiti’s border regions, and Peru’s urban slums.
Growing up in Syracuse, cleaning up Onondaga Lake was the motivation behind my aspiration to become an engineer.

My heart is dedicated to protecting water quality and the environment in New York State.”

Lauren Livermore, P.E., BCEE
Managing Engineer, Barton & Loguidice
NYWEA President

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**Jenna Saldana** will talk about partnering with El Porvenir which partners with rural Nicaraguans to develop and implement lasting projects and educational programs that increase access to clean water by empowering rural Nicaraguans to achieve better health through comprehensive clean water projects.

**Jason Smith** is partnership developer for Water Mission which believes that the global water crisis can be solved by taking a comprehensive approach to combating the crisis with water, sanitation and hygiene (WASH) solutions. Water Mission designs customized solutions for each community served and partners with the recipients throughout the process. A successful project results in more time for work and education, improved health, and increased productivity for the community. Jason’s focus is on Water Mission’s use of solar power solutions: the humanitarian impact (particularly in refugee and disaster relief settings) as well as how they’ve collaborated with other NGOs and corporations in solar innovation.

**James Harrington** is CEO of the Ugandan Water Project and won’t rest until every Ugandan community is secure in its access to clean water. When they say “secure,” they mean: men, women, and children should not have to walk for miles to reach water, miss school to find it, risk safety to collect it, spend hours to treat it, or worry when they drink it. James’ focus is on their mapping work in Uganda to track progress.

**Thursday, June 17, 2021**

**Session 9: Water Reclamation**

**Contact Hours** 1.5 PDH 1.5 Wastewater

**Moderators** Sarah Cwikla, Stantec; Wendi Richards, Siewert Equipment

**9.1 Juggling Act: Aging Infrastructure, Consent Order, Economic Development, Plant Operations Challenges and Speed of Delivery**

Amy Hait, Barton & Loguidice; Boyd Gregg, Energy Systems Group; Jeff Rowe, City of Oneida

Faced with a consent order, aging infrastructure, and expanding industry in the sewer service area, the City of Oneida Wastewater Treatment Plant (WWTP) has undertaken a nearly $50 million improvements project. The project includes expanding WWTP capacity from 3.75 MGD to 4.5 MGD, substantial aeration tank and secondary clarifier upgrades, a new dairy wash water forcemain and pretreatment system, a new digestion complex, and dewatering upgrades.

**9.2 70 MGD North Yonkers Pump Station Upgrades**

Ivan Gomez, GHD

Westchester County Department of Environmental Facilities Commissioner, Vincent Kopicki. This presentation will cover the recent upgrades of various aging components at the North Yonkers Pump Station. The grit removal system was replaced from an existing chain and flight collection system with pneumatic grit transfer to a new continuous pumping system with grit screws and grit classifiers. The newly installed grit removal equipment was subject to grit removal performance requirements, and satisfactory test results were required prior to final acceptance. Testing of grit removal efficiency is not commonly performed in the industry and proved challenging to replicate test results.

**9.3 Compact Cold Weather Nitrification and Chemically-enhanced Phosphorous Removal Using Biofilm Technology**

Laura Marcolini, Laura Marcolini & Associates, Inc.

This presentation will compare cold weather nitrification and phosphorous removal of conventional activated sludge systems to Biowater’s moving bed biofilm reactor (MBBR) and packed bed (CFIC) fixed film processes. System size, removal efficiencies, chemical addition and operating costs will be compared.
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HDR has the reach of a large company but the feel of a smaller one. Having the opportunity to jump right onto the team and into large projects has been professionally rewarding and personally exciting.

Dan Sammon, EIT
Water Resources EIT

Working at HDR has given me the opportunity to pave my own career path by providing opportunities for growth supplemented with the tools and trainings necessary to succeed.

Quinn Desibia, PE
Water/Wastewater Engineer

At HDR I work on some of the most technically challenging, and personally interesting, environmental engineering projects in the New York City Metro area. Since joining HDR, I have become a stronger engineer and leader.

Andy Watson, PE
Project Manager

Working at HDR has opened my eyes to the potential of great achievements through diligence and collaboration. In this supportive workspace I can rise to be the leader I aspire to be among my peers whom I value as my teachers, leaders and friends.

Adina Rivera, EIT
Water/Wastewater EIT

At CDM Smith we understand the challenges of managing emerging contaminants. We seek to provide innovative and best-value solutions as we develop treatment strategies to design, install, and commission full-scale PFAS treatment systems.

CDM Smith in-house research and development laboratory customizes treatability, process development, and innovative studies to provide better solutions for our clients. Visit cdmsmith.com/PFAS

For more information contact: William J. Nylic III, PE, PMP
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NylicWJ@cdmsmith.com | 516-730-3950
cdmsmith.com
Thursday, June 17, 2021

Panel: Operators Forum—
“Well, That Happened! And This is What We Did About It!
Horror Stories from the World of Wastewater!”

Moderators: Sara Urbanczyk, GA Fleet; Rosaleen Nogle, Buffalo Sewer Authority

You won’t want to miss this Forum. Horror Stories from the World of Wastewater!
A Squirrel Blew Up My Mother’s Day Plans, Steve Carroll, Village of LeRoy
The Day the RAS Pipe Fell Out of the Wall, Corky Kelsey, Monroe County DES
When Polymer Escapes, Alex Emmerson, Dan O’Sullivan, Buffalo Sewer Authority

The overall content will be presented by Operators from across New York state telling their stories about:
  a. This can happen.
  b. Horror stories.
  c. How to move forward in a crisis.
  d. Lessons learned.
  e. Importance of proactive/preventative maintenance.

3:45 pm  Thank You Essential Workers Networking Event – Remo
NYC DEP Video (10 minutes)

Thursday, June 17, 2021

1:30 pm-3:15 pm
Session 10: Manufacturer’s Forum

Contact Hours  1.5 PDH   1.5 Wastewater

Moderators: Nancy Struzenski, Alpha Analytical; Peter Frick, ADS

10.1 Gravimetric Sludge Selection
Dan Dair, World Water Works
Gravimetric sludge selection provides a method for the retention of denser biomass while wasting the lighter fraction of MLSS. Increased density leads to improved settling characteristics preventing the loss of biomass, especially during wet weather scenarios. Selection for faster settling particles, including PAOs and nitrifiers, can encourage aerobic granular sludge formation and enhance BNR processes.

10.2 Ultra-Low Phosphorus and Copper Limits: Reactive Filtration in Burrillville Rhode Island
CJ Strain, Nexom
Since 2017, the Reactive Filtration system has enabled Burrillville WWTF to consistently achieve its targets of 0.08 mg/L TP and less than 7.5 µg/L copper.

Exhibit Video Break featuring GA Fleet Associates

10.3 Package Treatment Technology Removes Phosphorus from Fixed Film WWTP to Low Levels
Eric Lawrence, Matthew Williams, Richard Ross, Matthew VanderVeen, WesTech Engineering, Inc.
This presentation details the findings from a pilot study conducted at Portage, WI. A package treatment technology that includes multiple stages incorporating air-water backwashing has been found to be highly effective in removing the residual phosphorus. The vigorous backwashing process also provides effective mitigation of biological fouling. The pilot study conclusions highlight exceptional phosphorus removal rates, reduced biochemical oxygen demand and ammonia nitrogen reduction.

3:45 pm  Thank You Essential Workers Networking Event
NYC DEP Video (10 minutes)
## Speaker Listing

<table>
<thead>
<tr>
<th>SPEAKER</th>
<th>COMPANY</th>
<th>EMAIL</th>
<th>SESSION#</th>
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<tbody>
<tr>
<td>Henry Albro</td>
<td>F.R. Mahony &amp; Associates–Cummins-Wagner</td>
<td><a href="mailto:henryalbro@frmahony.com">henryalbro@frmahony.com</a></td>
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<tr>
<td>David Andrews</td>
<td>Upstate Freshwater Institute</td>
<td><a href="mailto:dsandrews@upstatefreshwater.org">dsandrews@upstatefreshwater.org</a></td>
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<tr>
<td>Bill Barber</td>
<td>Cambi Inc.</td>
<td><a href="mailto:bill.barber@cambi.com">bill.barber@cambi.com</a></td>
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<tr>
<td>Shane Blauvelt</td>
<td>Honeywell</td>
<td><a href="mailto:Shane.Blaeuvelt@honeywell.com">Shane.Blaeuvelt@honeywell.com</a></td>
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<tr>
<td>Steve Carroll</td>
<td>Village of Leroy</td>
<td><a href="mailto:scarroll@villageofleroy.org">scarroll@villageofleroy.org</a></td>
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<tr>
<td>Tracy Chouinard</td>
<td>Brown and Caldwell</td>
<td><a href="mailto:tchouinard@brwnclald.com">tchouinard@brwnclald.com</a></td>
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<tr>
<td>Clem Chung</td>
<td>Monroe County Dept of Environmental Services</td>
<td><a href="mailto:ClementChung@monroecounty.gov">ClementChung@monroecounty.gov</a></td>
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<tr>
<td>Jonathan Churins</td>
<td>Dutchess County Water &amp; Wastewater Authority</td>
<td><a href="mailto:jchurins@dutchessny.gov">jchurins@dutchessny.gov</a></td>
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<tr>
<td>Joe Clark</td>
<td>JWC Environmental</td>
<td><a href="mailto:josephc@jwce.com">josephc@jwce.com</a></td>
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<tr>
<td>Dan Dair</td>
<td>World Water Works</td>
<td><a href="mailto:dair@worldwaterworks.com">dair@worldwaterworks.com</a></td>
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<tr>
<td>John Dyson</td>
<td>Aqua-Aerobic Systems, Inc.</td>
<td><a href="mailto:jdyson@aqua-aerobic.com">jdyson@aqua-aerobic.com</a></td>
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<tr>
<td>Anthony Falcone</td>
<td>HDR</td>
<td><a href="mailto:Anthony.Falcone@hdrinc.com">Anthony.Falcone@hdrinc.com</a></td>
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<td>Ulrick Gallard</td>
<td>Batery Relief Alliance (BRA).</td>
<td><a href="mailto:ugaillard@bateyrelief.org">ugaillard@bateyrelief.org</a></td>
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<td>Edward Glaza</td>
<td>Parsons</td>
<td><a href="mailto:edward.glaza@parsons.com">edward.glaza@parsons.com</a></td>
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<tr>
<td>Ivan Gomez</td>
<td>GHD</td>
<td><a href="mailto:ivan.gomez@ghd.com">ivan.gomez@ghd.com</a></td>
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<td>Amy Hilt</td>
<td>Barton &amp; Loguidice</td>
<td><a href="mailto:ahilt@bartonandloguidice.com">ahilt@bartonandloguidice.com</a></td>
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<tr>
<td>Shannon L. Harty</td>
<td>Onondaga County WEP</td>
<td><a href="mailto:shannonharty@ongov.net">shannonharty@ongov.net</a></td>
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<td>James Harrington</td>
<td>Ugandan Water Project</td>
<td><a href="mailto:James@ugandanwaterproject.com">James@ugandanwaterproject.com</a></td>
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<td>Corky Kelsey</td>
<td>Monroe County DES</td>
<td><a href="mailto:kkelsey@monroecounty.gov">kkelsey@monroecounty.gov</a></td>
<td>F2</td>
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<tr>
<td>Robert Kukenerberger</td>
<td>CDM</td>
<td><a href="mailto:kukenerbergerj@cdmsmith.com">kukenerbergerj@cdmsmith.com</a></td>
<td>OS</td>
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<tr>
<td>Ryan C. Laninga</td>
<td>Wendel</td>
<td><a href="mailto:rlaninga@wendelcompaniesty.org">rlaninga@wendelcompaniesty.org</a></td>
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<tr>
<td>Eric Lawrence</td>
<td>WesTech Engineering, Inc</td>
<td><a href="mailto:elawrence@westech-inc.com">elawrence@westech-inc.com</a></td>
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</tr>
<tr>
<td>Eric Li</td>
<td>BDP Enviro Tech.</td>
<td><a href="mailto:ericli@bdpenvirotech.com">ericli@bdpenvirotech.com</a></td>
<td>4</td>
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<tr>
<td>Jonathan Liberson</td>
<td>Tomorrow Water</td>
<td><a href="mailto:jl@bkt21.com">jl@bkt21.com</a></td>
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<tr>
<td>Lauren Livermore</td>
<td>Barton &amp; Loguidice</td>
<td><a href="mailto:llivermore@bartonandloguidice.com">llivermore@bartonandloguidice.com</a></td>
<td>OS</td>
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<tr>
<td>Dale H. Lockwood III</td>
<td>Onondaga County</td>
<td><a href="mailto:dlockwood@ogov.net">dlockwood@ogov.net</a></td>
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<tr>
<td>Laura Marcolini</td>
<td>Laura Marcolini &amp; Associates, Inc</td>
<td><a href="mailto:laura@marcolini.us">laura@marcolini.us</a></td>
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<tr>
<td>David Matthews</td>
<td>Upstate Freshwater Institute</td>
<td><a href="mailto:damathews@upstatefreshwater.org">damathews@upstatefreshwater.org</a></td>
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<tr>
<td>Stephen Miller</td>
<td>Honeywell</td>
<td><a href="mailto:r5Hearts@gmail.com">r5Hearts@gmail.com</a></td>
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<tr>
<td>Zachary Monge</td>
<td>Jacobs</td>
<td><a href="mailto:zachary.monge@jacobs.com">zachary.monge@jacobs.com</a></td>
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<tr>
<td>Erin Moore</td>
<td>Tighe &amp; Bond</td>
<td><a href="mailto:ekmoore@tighebond.com">ekmoore@tighebond.com</a></td>
<td>4</td>
</tr>
<tr>
<td>Tim Murphy</td>
<td>Albany County Water Purification District</td>
<td><a href="mailto:tmurphy@albanycounty.com">tmurphy@albanycounty.com</a></td>
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<tr>
<td>Erin Rankin</td>
<td>Ramboll</td>
<td><a href="mailto:erin.rankin@ramboll.com">erin.rankin@ramboll.com</a></td>
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<tr>
<td>Daniel Roop</td>
<td>Tighe &amp; Bond</td>
<td><a href="mailto:doroop@tighebond.com">doroop@tighebond.com</a></td>
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<tr>
<td>Richard Ross</td>
<td>WesTech Engineering, Inc</td>
<td><a href="mailto:ross@westech-inc.com">ross@westech-inc.com</a></td>
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</tr>
<tr>
<td>Dan Rourke</td>
<td>Saratoga County Sewer</td>
<td><a href="mailto:drourke@saratogacounty.gov">drourke@saratogacounty.gov</a></td>
<td>SP</td>
</tr>
<tr>
<td>Jenna Saldana</td>
<td>El Porvenir</td>
<td><a href="mailto:jenna@elporvenir.org">jenna@elporvenir.org</a></td>
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<tr>
<td>Imad Salim</td>
<td>Wade Trim</td>
<td><a href="mailto:isalim@wadetrim.com">isalim@wadetrim.com</a></td>
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<tr>
<td>Natalie Sierra</td>
<td>Brown and Caldwell</td>
<td><a href="mailto:nsierra@brwnclald.com">nsierra@brwnclald.com</a></td>
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<tr>
<td>Jason Smith</td>
<td>Water Mission</td>
<td><a href="mailto:JSmith@watermission.org">JSmith@watermission.org</a></td>
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<tr>
<td>Amy Sowitcky</td>
<td>Tighe &amp; Bond</td>
<td><a href="mailto:ALSowitcky@tigheBond.com">ALSowitcky@tigheBond.com</a></td>
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<tr>
<td>Bruce Stevens</td>
<td>Aquionics</td>
<td><a href="mailto:bruce.stevens@aquionics.com">bruce.stevens@aquionics.com</a></td>
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<tr>
<td>John Story</td>
<td>GHD</td>
<td><a href="mailto:john.story@ghd.com">john.story@ghd.com</a></td>
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<tr>
<td>CJ Strain</td>
<td>Nexom</td>
<td><a href="mailto:cstrain@nexom.com">cstrain@nexom.com</a></td>
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<tr>
<td>Janaki Suryadevara</td>
<td>Onondaga County</td>
<td><a href="mailto:janakisuryadevara@ongov.net">janakisuryadevara@ongov.net</a></td>
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<tr>
<td>Benjamin Taylor</td>
<td>Arcadis</td>
<td><a href="mailto:benjamin.taylor@arcadis.com">benjamin.taylor@arcadis.com</a></td>
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<tr>
<td>Sean Tierney</td>
<td>Alfa Laval</td>
<td><a href="mailto:sean.tierney@alfaLaval.com">sean.tierney@alfaLaval.com</a></td>
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<tr>
<td>Benjamin Tillotson</td>
<td>Arcadis</td>
<td><a href="mailto:benjamin.tillotson@arcadis.com">benjamin.tillotson@arcadis.com</a></td>
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<tr>
<td>Kevin VanderTuig</td>
<td>Wade Trm</td>
<td><a href="mailto:kvandertuig@wadetrim.com">kvandertuig@wadetrim.com</a></td>
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<tr>
<td>Walt Walker</td>
<td>Greeley and Hansen</td>
<td><a href="mailto:wwwalker@greeley-hansen.com">wwwalker@greeley-hansen.com</a></td>
<td>7</td>
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<tr>
<td>Adam Woodburn</td>
<td>Onondaga County WEP</td>
<td><a href="mailto:adamwoodburn@ongov.net">adamwoodburn@ongov.net</a></td>
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**KEY:** F1 = Forum Session 1  F2 = Forum Session 2  OS = Opening Session  SP = Session Panel

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### 2021 Upcoming Training Classes & NYWEA Meetings

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<tr>
<th>Date</th>
<th>Event</th>
<th>Time</th>
<th>Details</th>
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<tbody>
<tr>
<td>June 22, 2021</td>
<td>Anaerobic Digestion Master Class: Learn How to Optimize Your Digestion Process and Generate More Gas from This Class</td>
<td>10:00 am-11:00 am</td>
<td>Virtual via Zoom</td>
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<td>Part 1 of 4</td>
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<tr>
<td>June 24, 2021</td>
<td>Anaerobic Digestion Master Class: Learn How Sludge Gets Rid of Your Sludge</td>
<td>10:00 am-11:00 am</td>
<td>Virtual via Zoom</td>
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<td>Part 2 of 4</td>
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<td>June 29, 2021</td>
<td>Nutrient Management: Optimizing Nutrient Flows and Removal across the Plant via Nutrient Removal/Recovery in Biosolids</td>
<td>10:00 am-11:00 am</td>
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<td>Part 3 of 4</td>
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<td>July 1, 2021</td>
<td>Biogas Utilization: Improving Biogas Quality in Three Key Areas</td>
<td>10:00 am-11:00 am</td>
<td>Virtual via Zoom</td>
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<tr>
<td>Part 4 of 4</td>
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<tr>
<td>July 8, 2021</td>
<td>Emergency Response &amp; Crisis Management Lunch &amp; Learn Webinar</td>
<td>12:00 pm-1:00 pm</td>
<td>Virtual via Zoom</td>
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For more information and to register, visit nywea.org.
# At-a-Glance Schedule

**Opening Session 2021 Spring Technical Conference & Exhibition**  
“Bringing Back Onondaga Lake”

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>8:30 am</td>
<td>Welcome! President Lauren Livermore</td>
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<tr>
<td>8:45 am</td>
<td>Historic Perspectives on Onondaga Lake, Robert Kukenberger, CDM Smith</td>
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<tr>
<td>9:00 am</td>
<td>Onondaga County Water Environment Protection, Shannon Harty, Acting Commissioner</td>
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<td>9:15 am</td>
<td>Honeywell Wrap Up, Shane Blauvelt</td>
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<tr>
<td>9:30 am</td>
<td>Break</td>
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**10:00 am-11:45 am**  
**Session 1: Bringing Back Onondaga Lake – Part 1**

1.1 Deicing Collection at the Syracuse Airport  
1.2 Onondaga Lake Boat Launch  
   - Exhibit Video Break featuring Koester Associates; Barton & Loguidice; Jacobs  
1.3 GI Complimenting Gray: How Onondaga County Successfully Integrated GI into Their CSO Abatement

**10:00 am-11:45 am**  
**Session 2: Collection Systems and Distribution**

2.1 Pressure Sewer Asset Management Plan, Marion, Massachusetts  
2.2 Winning the War against Wipes  
   - Exhibit Video Break featuring GA Fleet Associates; Wendel  
2.3 Sixty Communities, 270 Square Miles – Local Sewer System Evaluation Studies  
   - Provide a Roadmap for the Northeast Ohio Regional Sewer District and Member Communities to Improve Sewer Systems

**10:00 am-11:45 am**  
**Panel NYWEA DE&I Committee Introduction and Civil Service Panel Discussion**

Speakers: Dan Rourke, Saratoga County Sewer; Tim Murphy, Albany County Water Purification District; Clem Chung, Monroe County Department of Environmental Services

12:10 pm-1:00 pm **Exhibitor Networking – Remo Lunch; Scavenger Hunt (Opportunity to win a $150 gift card!)

**1:30 pm-3:15 pm**  
**Session 3: Bringing Back Onondaga Lake – Part 2**

3.1 Onondaga County’s Contributions to Remarkable Onondaga Lake Water Quality Improvements  
   - Exhibit Video Break featuring Jacobs  
3.2 Whole-lake Nitrate Addition to Control Methylmercury in Onondaga Lake, NY  
3.3 Onondaga Lake Post-Remediation Surface Water Monitoring Results
### Session 4: Optimizing Water Resource Recovery Facilities through Innovation

#### 4.1 A Phoenix from the Ashes – Emergency Measures at the Greenfields Wastewater Treatment Plan

#### 4.2 Mechanical Dewatering Optimization – Belt Filter Press and Decanter Centrifuges

Exhibit Video Break featuring Tighe & Bond; H2M architects + engineers; Surpass Chemical

#### 4.3 Introduction of BDP’s Advanced Wastewater Treatment Technologies to the Most Comprehensive Test and Study by IRSTEA/INRAE of Low Dissolved Oxygen and High Efficiency of Biological Nutrient Removal

### Session 5: Residuals & Biosolids

#### 5.1 Quantifying the Influence of Thermal Hydrolysis on the Operating Costs of Biosolids Management

#### 5.2 Is It Time to Think About Thermal Drying?

Exhibit Video Break featuring BDP Industries; GA Fleet Associates

#### 5.3 Water Reuse Prioritization for “Class A” Biosolids Processing

4:00 pm Women’s Happy Hour NYWEA Networking Event
“Building Success by Overcoming Challenges”

### Session 6: Bringing Back Onondaga Lake – Part 2

#### 6.1 Many Utilities are Moving to Peak Wet Weather Flow Management to Handle Peak Flow and Prevent Untreated Overflows

#### 6.2 New Primary Bio-Filter Achieves High-Rate Treatment for Wet Weather Inflows

Exhibit Video Break featuring Larson Design Group

#### 6.3 Impact of Rising Detroit River Levels on the Great Lakes Water Authority (GLWA) Collection System

### Session 7: Resiliency

#### 7.1 Pump Station Resiliency and Flood Mitigation Strategies at Pump Stations

#### 7.2 Water Equitable Infrastructure Planning for a Climate Resilient Utility, Community and City

Exhibit Video Break featuring Tighe & Bond; GA Fleet Associates

#### 7.3 Drainage Infrastructure Impacts and Solutions for New York City Transit (NYCT) Yard Resiliency
### Session 8: Energy Conservation and Generation

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8.1</td>
<td>Master Planning for Cost-effective Energy Management</td>
</tr>
<tr>
<td>8.2</td>
<td>Onondaga County Department of Water Environment Protection (OCDWEP) – Reducing Operational Costs through Capital Investment – An EPC Story</td>
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<tr>
<td></td>
<td>Exhibit Video Break featuring GA Fleet Associates</td>
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<tr>
<td>8.3</td>
<td>Lessons Learned and Success of Striving for Energy Independence at the Oneida County WPCP</td>
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<th>Time</th>
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<tr>
<td>12:10 pm-1:00 pm</td>
<td>NYWEA Networking – Remo Lunch</td>
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<tr>
<td>1:30 pm-3:15 pm</td>
<td>Statewide Plant Tours/Essential Worker Thank You</td>
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<tr>
<td>3:45 pm-4:15 pm</td>
<td>Select Society of Sanitary Sludge Shovelers &amp; Golden Manhole Society Ceremony via Zoom</td>
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<tr>
<td>4:45 pm</td>
<td>YP Happy Hour Networking Event</td>
</tr>
</tbody>
</table>

### Panel: Humanitarian Assistance

<table>
<thead>
<tr>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>The Batey Relief Alliance Clean Water Program</td>
</tr>
<tr>
<td>El Porvenir</td>
</tr>
<tr>
<td>Water Mission</td>
</tr>
<tr>
<td>Ugandan Water Project</td>
</tr>
</tbody>
</table>

### Session 9: Water Reclamation

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.1</td>
<td>Juggling Act: Aging Infrastructure, Consent Order, Economic Development, Plant Operations Challenges and Speed of Delivery</td>
</tr>
<tr>
<td>9.2</td>
<td>70 MGD North Yonkers Pump Station Upgrades</td>
</tr>
<tr>
<td></td>
<td>Exhibit Video Break featuring Koester Associates; Larson Design Group</td>
</tr>
<tr>
<td>9.3</td>
<td>Compact Cold Weather Nitrification and Chemically-enhanced Phosphorous Removal Using Biofilm Technology</td>
</tr>
</tbody>
</table>

### Panel: Operators Forum

<table>
<thead>
<tr>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>“Well, That Happened! And This is What We Did About It! Horror Stories from the World of Wastewater!”</td>
</tr>
</tbody>
</table>

### Session 10: Residuals & Biosolids

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>10.1</td>
<td>Gravimetric Sludge Selection</td>
</tr>
<tr>
<td>10.2</td>
<td>Ultra-Low Phosphorus and Copper Limits: Reactive Filtration in Burrillville Rhode Island</td>
</tr>
<tr>
<td></td>
<td>Exhibit Video Break featuring GA Fleet Associates</td>
</tr>
<tr>
<td>10.3</td>
<td>Package Treatment Technology Removes Phosphorus from Fixed Film WWTP to Low Levels</td>
</tr>
<tr>
<td>3:45 pm</td>
<td>Thank You Essential Workers Networking Event—Remo (NYC DEP 10 minute video)</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Geyser Level</th>
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<tr>
<td>Barton &amp; Loguidice</td>
<td>CDM Smith</td>
<td>Beardsley</td>
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<tr>
<td>Cameron Engineering</td>
<td>GHD</td>
<td>Carollo Engineers</td>
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<tr>
<td>D&amp;B Engineers and Architects</td>
<td>Greeley and Hansen</td>
<td>Jacobs</td>
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<tr>
<td>Denali Water Solutions</td>
<td>STV</td>
<td>Larson Design Group</td>
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<td>EDR</td>
<td>GannettFleming</td>
<td>Mott MacDonald</td>
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<tr>
<td>GP Jager Inc.</td>
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<td>MRB Group Engineering,</td>
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<tr>
<td>H2M architects + engineers</td>
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<td>Architecture &amp;</td>
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<tr>
<td>Hazen and Sawyer</td>
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<td>Surveying, D.P.C.</td>
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<td>HDR</td>
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<td>Surpass Chemical</td>
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<td>Koester Associates, Inc.</td>
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<td>MetroFab</td>
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<tr>
<td>M&amp;J Engineering P.C.</td>
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<tr>
<td>Ramboll</td>
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<tr>
<td>Xylem Inc.</td>
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</tbody>
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(Association Activities Group continued)
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How to use Gather.Town? Click here for instructions.

Practice Session on Tuesday, June 15, 3:30pm EST
Practice Session Link: https://gather.town/i/MviSdVzJ

Wednesday, June 16, 2021, 4:45pm EST
CLICK HERE TO REGISTER

ALL NYWEA MEMBERS ARE WELCOME TO ATTEND!

If you have any further questions or concerns, feel free to reach out to the Event Manager Taylor Brown (tbrown@buffalosewer.org)