NYWEA
Spring Technical Conference & Exhibition
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WHILE MOVING FORWARD

June 5–7, 2017
Hyatt Regency, Rochester, New York

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- Wastewater collection and pumping

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Speaker Evaluations link for NY PDH Hours: http://tinyurl.com/Eval0617
Monday, June 5, 2017

8:45 am–11:00 am
Opening Session with Breakfast

9:00 am Welcome – Michelle McEntire, Genesee Valley Chapter Chair
9:10 am NYWEA President Paul McGarvey
9:20 am Monroe County Executive, Cheryl Dinolfo
9:30 am Paul D’Amato, DEC Regional Director
10:00 am Dolores Kruchten, Eastman Business Park
10:30 am Mark Minunni, Genesee Brewery

Environmental Initiatives

11:00 am Adjourn

Session 1: Collections (Regency B)

Contact Hours: 2 Engineer 2 Wastewater 2 Water

Moderators Dick Pope, Hazen and Sawyer; Adam Cummings, Barton & Loguidice, DPC

1:30 pm Benefits of Level Only Monitoring for Overflow Prevention
Peter Frick, Patrick Stevens, ADS Environmental Services
Sanitary sewer overflows (SSOs) are discharges of untreated wastewater from sanitary sewer systems and pose a significant threat to public health and the environment – contributing to beach closures, basement flooding, and other concerns. This presentation will show case studies of several sewer agencies that are using the devices including monitoring CSO weirs, siphon structures, sanitary sewer depths in areas that require frequent cleaning due to Fats, Oil, and Grease (FOG), and known SSO locations to provide notification of an event and determine duration of the event.

2:00 pm Using Acoustic Inspection to Prioritize Sewer Cleaning
George Selembo, InfoSense, Inc.
Rapid acoustic inspection technology for sanitary sewer lines is a new methodology for performing blockage assessments. Use of this technology as a preliminary screening tool for cleaning operations has resulted in substantial cost savings and significant reduction in sanitary sewer overflows. Multiple case studies will be discussed. Limitations of the technology will be reviewed as well, so that an understanding of what acoustic inspections can do (and what they cannot do) will be developed.

2:30 pm Coffee Break

3:00 pm Hydraulic Odor Control Using Vortex Technology
Richard St. Aubin, IPEX USA LLC; Eugene Natarius, Retired, Metropolitan Council Minneapolis
Odor and corrosion in forcemain discharges and pumping station wet wells are difficult problems often requiring the use of chemical injection or biofilters. Hydraulic Odor and Corrosion control uses the energy of the flowing sewage to dramatically increase the dissolved oxygen content of the sewage flow. This can significantly reduce or even eliminate the need for additional chemical injection or air-phase treatment. This presentation will describe how it works.
Sewer Systems – Construction Consideration
Julie Barown, Orenco Systems, Inc.

The construction impact of installing any sewer system technology falls under two main categories: on-lot and right-of-way. Pressure sewers (effluent or grinder) and gravity sewers require different methods of construction, different installation techniques, and different degrees of accessibility to install the various products and system components. Construction impact, indirect construction costs, ease of installation, and time required to complete the installation are major considerations for homeowners and communities when evaluating wastewater collection system options.

Monday, June 5, 2017
Session 2 – Disinfection (Regency C)

Contact Hours: 2 Engineer 2 Wastewater 2 Water

Moderators Venessa Brabant, Arcadis; Pradeep Jangbari, NYSDEC

1:30 pm  PAA Saves the Day: Exploring PAA as the Future of Disinfection
Lauren Spink, Elizabeth Maio, O’Brien & Gere

With stricter limitations being set on total residual chlorine, peracetic acid (PAA) offers an alternative to traditional chlorine disinfection at WWTPs. While recognized by the EPA, PAA is still relatively undefined at the state level, especially in New York. This presentation will discuss the benefits of PAA from a resiliency and regulation standpoint, and focus on the importance of piloting new disinfection technology to offer municipalities a solution in this rapidly changing regulatory environment.

2:00 pm  Design Considerations for Disinfection Improvements Projects at Existing Facilities (Sodium Hypochlorite)
Jonas Balistreri, Arcadis; Jeanne Powers, Onondaga County WEP

Onondaga County Department of Water Environment Protection is in the process of upgrading chlorination/dechlorination systems at two wastewater treatment plants with the use of sodium hypochlorite for disinfection and sodium bisulfite for dechlorination to meet revised SPDES permits. The presentation will cover recommendations and standards for design for each of the following areas: Chemical fill stations, chemical storage, chemical feed rates, retention time, effluent sampling, flow monitoring, alarms and instrumentation, and bench-scale testing.

2:30 pm Coffee Break (Regency Foyer)

3:00 pm  Pre-Selection of UV Equipment at the Meadowbrook-Limestone WWTP
Ryan Fisher, GHD

This presentation will review the pre-selection process used for the addition of UV-Disinfection at the Onondaga County Meadowbrook-Limestone Wastewater Treatment Plant. The pre-selection process allowed the facility to base the equipment selection on a combination of purchase cost and expected operating costs. The steps used in the pre-selection process will be reviewed along with the lessons learned.

3:30 pm  An Enzymatic Method for the Determination of Fecal Coliforms in Wastewaters
Gil Dichter, IDEXX Laboratories

An innovative MPN enzymatic method is a rapid, easy method for the detection of fecal coliforms in wastewater in 18 hours. USEPA recommended approval four years ago and is pending the final Method Update Rule. It is anticipated this will be finalized soon. Regional USEPA has allowed many wastewater facilities to use this method. The theory as well as how to perform the method and comparison to m-FC will be reviewed.
Tuesday, June 6, 2017

Session 3 – Environmental Collaboration in Greater Rochester: A Model for Success
(Regency A)

Contact Hours: 2 Engineer  2 Wastewater  2 Water

Moderators
Michelle McEntire, O’Brien & Gere; Mary Doran, Wendel

9:00 am  Adapting to the Environmental Landscape
Michael Garland, Monroe County
Over the last 20 years we have seen many new and changed regulations that have impacted our operation of wastewater recovery facilities, solid waste operations and stormwater programs. As the science gets better in determining the cause and effect of environment impacts, rules, regulation and permit generation have changed to coincide with current thinking. These stressors have caused us to proactively change our operational strategy and upgrade our facilities.

9:30 am  Improvements to Irondequoit Bay
Andy Sansone, Monroe County
The Irondequoit Bay has been in a eutrophic state for several decades and has been subjected to many of the problems of advanced eutrophication such as algal blooms, organically rich deep sediments, hypolimnetic oxygen depletion during summer stratification, and high chloride concentrations from road salts. This program will highlight efforts to monitor and improve water quality through reductions on wastewater inputs, watershed management and direct interventions in the bay, including alum treatment and hypolimnetic oxygenation.

10:00 am  Coffee Break in Exhibit Hall

11:00 am  GVC NYWEA Industrial Issues Committee:
Utilizing Trust and Cooperation to Enhance Environmental Compliance
Marshall Shannon, Paradigm Environmental
The presentation touches on the importance of local leadership, corporate backing, and NYWEA support. It delves into committee activities, meeting structure, and purpose. The presentation mixes in the origins of the committee, and highlights some of their more notable achievements. Last, the presentation will focus on the challenges created by today’s business environment, and how groups like this can continue to play a meaningful role in improving the quality of our environment.

11:30 am  Growing Green Infrastructure: The Regional Green Infrastructure Showcase
at the Rochester Museum & Science Center
Thomas Robinson, Barton & Loguidice, DPC
The presentation will summarize the planning, design and construction of the Regional Green Infrastructure Showcase at the Rochester Museum & Science Center (RMSC). The Regional Green Infrastructure Showcase at RMSC addresses a regional need for GI education. It focuses on new, upcoming “green” technologies which not only contribute to improving local water quality and quality of life within the region, but are also representative of new technologies which must be included in construction and redevelopment projects.
**Session 4 – CSO/SSO/Wet Weather (Regency B)**

**Contact Hours:** 2 Engineer  2 Wastewater  2 Water

**Moderators**
Jamie Johnson, Wendel; Randy Ott, GP Jager, Inc.

9:00 am  Northeast Ohio Regional Sewer District (NEORSD), Combined Sewer Overflow Control/Project Clean Lake, Advanced Facilities Plan – Optimize Before Design
Kevin T. Vander Tuig, Tim O’Rourke, Wade Trim
NEORSD’s 2013-2016 Advanced Facilities Plan project completed system optimization and preliminary design for five deep tunnel systems proposed under earlier planning-level projects to control CSOs in Cleveland, OH. The project eliminated unnecessary work, advanced design of the tunnel systems to 20 percent, updated cost opinions to class 3/4 level, confirmed design and construction schedules, and identified required land. The project reduced cost of the proposed systems by $350 million (16 percent), reduced risk, and prepared the projects for design.

9:30 am  Oneida County, NY – A Case Study for Continuous Improvement
Brian Whittaker, O’Brien & Gere; Mike Armes, ADS; Steve Devan, Oneida County
Oneida County Sewer District (OCSD) has proactively been engaged in large scale flow monitoring, SSES, and collection system rehabilitation programs for almost ten years to reduce Rainfall Derived I/I (RDII) and sanitary sewer overflows; improve hydraulic capacity; and improve sanitary sewer collection systems in satellite communities. The significant amount of work completed has provided managers a collection system case study to improve future programs.

10:00 am  Coffee Break in Exhibit Hall (Grand Ballroom)

11:00 am  Preparing Water Quality Advisories for New York City Beaches and New York City Waterbodies Using Advanced Modeling Systems
Charles Dujardin, Great Lakes Environmental Center; Anand Kumaraswamy, NYCDEP; Marco Finazzi, Nova Consulting
The USEPA’s 2012 Recreational Water Quality Criteria defines the criteria and guidelines for beach notification. In order to anticipate poor water quality as a result of rain events, Department of Health and Mental Hygiene and the NYCDEP developed a methodology to predict whether bathing beaches may be at risk due to elevated *enterococci* concentrations. For a given rainfall volume and expected duration of exceedance, an assessment is conducted to determine whether an advisory should be issued for a particular day.

11:30 am  Town of Haverstraw Phase II Stormwater Management Program – A Phased Approach to Effluent Water Quality and Green Infrastructure Implementation
Cosimo Pagano, GHD Consulting Services Inc.; Patrick Brady, Joint Regional Sewerage Board, West Haverstraw, NY
The Town of Haverstraw implements an annual Stormwater Management Program to enhance water quality in the Minisceongo Creek and Hudson River. In addition to the six minimum control measures the Town has enhanced water quality within the region through implementation of a phased approach to stormwater including watershed system mapping, green infrastructure practices and various public involvement events. Additionally, the program has reduced erosion channels and aided in the protection of critical environmental resources.
Tuesday, June 6, 2017
Session 5 – Research & Innovation (Regency C)

Contact Hours: 2 Engineer  0.5 Wastewater‡  2 Water

Moderators
Rob Ganley, Mike Manning, O’Brien & Gere

9:00 am  Legiolert, An Innovative Enzymatic Method for the Detection of \textit{L. pneumophila} in Water and Cooling Towers
Gil Dichter, IDEXX Laboratories

\textit{Legionella pneumophila} was first documented in 1976 when an outbreak of pneumonia occurred at an American Legion Convention in Philadelphia. \textit{L. pneumophila} was isolated as the cause of this outbreak resulting in 34/221 who became ill and died after exposure. A new enzymatic method, Legiolert, was developed and compared against the CDC and ISO methods for the detection of \textit{L. pneumophila} in potable waters and non-potable waters. The CDC method requires incubation from seven to ten days for a presumptive test with confirmation requiring up to four days. Legiolert requires no confirmation and incubation is only seven days.

9:30 am  Ammonia Permits and Lagoons: Ellicottville, NY’s WWTF and the Options Available for Beating Limits‡
Todd Latchaw, Nexom

As ammonia limits become commonplace in lagoon-based wastewater treatment facility permits, municipalities and their engineers must decide: Do we have to replace the facility, or is there a way to save the existing infrastructure? This case study of Ellicottville, NY’s wastewater treatment plant digs into the factors limiting lagoon-based nitrification, discusses the merits and challenges of mechanical plants, and introduces the SAGR post-lagoon nitrification option – which consistently reduces ammonia to <1 mg/L in <34°F water.

10:00 am  Coffee Break in Exhibit Hall (Grand Ballroom)

11:00 am  Sustainable Water Resources
Timothy Taber, Barton & Loguidice, DPC

Increasing demands for sources of clean water combined with land use practices, growth, aging infrastructure, and climate variability pose significant threats to our nation’s water resources. Rapidly changing human demographics, combined with age, historic neglect, and rapidly escalating costs are limiting the effective and efficient innovative replacement of aging or inadequate water infrastructure. This presentation will review current EPA research and some technical solutions to address these significant challenges.

11:30 am  Using Remote Sensing and Spatial Analysis to Assess the Trends in Riparian Vegetation Extent and Vigor
Ge (Jeff) Pu, Lindi Quackenbush, SUNY-ESF

This project developed a tool for rapid and cost-effective riparian buffer delineation and monitoring based on imagery within Google Earth Engine, a Cloud-based platform for remote sensing and spatial analysis. As a pilot study, the tool was applied to quantify changes in riparian buffer extent and vigor along the main stem of Genesee River in Pennsylvania and New York from 2006–2015. Riparian management implications of such tools will also be presented.
Tuesday, June 6, 2017

Session 6 – Asset & Utility Management (Regency A)

Contact Hours:  2 Engineer  2 Wastewater  2 Water

Moderators  Kevin Ryan, Siewert Equipment; Andrew Casolini, O’Brien & Gere

1:30 pm  Town of Lockport, NY – Sewer Capital Improvements Project
Jamie Johnson, Mary Doran, Wendel
This project highlights the importance of long term planning. The Town of Lockport foresaw the need to invest in its aging sewer system. By implementing a multi-year, multi-phase CIP, the Town is able to ensure the integrity of their sanitary sewer system for the next 20 to 30 years by leveraging their historic bonding capacity to pay for the capital investments; thereby mitigating additional burden on the rate payers.

2:00 pm  DEP’s Continuing Improvement System: Successful implementation of NYC DEP’s Capital Improvements through the Development of a Contractual Toolbox
Matthew Osit, Jonathan Hoffman, James Mueller, Stephanie Chao, NYCDEP
New York City’s Department of Environmental Protection (NYCDEP) provides lifecycle project management for over $1 billion in capital projects each year. The Bureau of Engineering Design and Construction (BEDC) initiated a Continuing Improvement System (CIS) to identify areas of improvement in delivering a project to completion. One major component of the CIS is the creation of the BEDC “Toolbox”. The Toolbox is a collection of contracting tools that will allow more efficient capital delivery of the Department’s projects.

2:30 pm  Coffee Break in Exhibit Hall (Grand Ballroom)

3:30 pm  Monroe County Department of Environmental Services Preventative Maintenance Program Leads the Way – Lubrication and Lubricant Testing
Christopher LaManna, David Sam Tuccio, Monroe County DES
Since 1994, Monroe County Department of Environmental Services (MCDES) has developed a proactive and comprehensive preventative maintenance program (PMP) for the 2,300 pieces of equipment they are responsible for maintaining. They have received recognition from equipment manufacturers and organizations for the quality of their PMP, leveraging the latest technology to improve reliability and reduce maintenance costs. The objective of this presentation is to present components of the PMP including examples and case studies.

4:00 pm  From Condition Assessment to Construction: Brewerton WPCP Case Study of an Asset Management Approach to a Common Engineering Project
James Thayer, Onondaga County Department of Water Environment Protection;
Timothy Taber, Barton & Loguidice, DPC
In 2012, Onondaga County Department of Water Environment Protection (OCDWEP) began an engineering assessment of the Brewerton, NY facility (circa 1974) to determine the scope of an upcoming capital improvement project. OCDWEP simultaneously commissioned an Asset Management (AM) project and utilized an engineering evaluation and AM approach that resulted in establishing physical condition assessment protocols, a capital investment forecasting tool which estimates future replacement cost, estimates for remaining useful of equipment, and a comprehensive plan for the facilities future.
Tuesday, June 6, 2017

Session 7 – Water Reclamation (Regency B)

Contact Hours: 2 Engineer 2 Wastewater 2 Water

Moderators
Mark Greene, O’Brien & Gere; Drew Smith

1:30 pm Evaluating (and Optimizing) the World’s Worst Clarifier!
John Esler, Clarifier Performance Evaluations, Inc.;
Travis Capson, Chief Operator for a plant in Emmett, ID
In our experience with over 200 full-scale field evaluations, we have been able to see many new ideas in service. With this experience, we have been able to observe what is working … and what isn’t working as desired. This presentation will provide an open discussion with examples the present status of current clarifier designs.

2:00 pm Plant Wide Flow Study – Determining a New Bypass Set Point
Teresa Misiti, GHD; Thomas Blodgett, Niagara County Sewer District
The Niagara County Sewer District (NCSD) WPCC operates as a conventional activated sludge system. As part of their SPDES Permit reporting requirements, the WPCC was required to complete a Plant Wide Flow Study. The Flow Study was completed in 2016 and included a basis of design evaluation, process and hydraulic modeling, and field investigations. The results of all evaluations were used to determine an appropriate bypass set point for the WPCC in order to maximize flows receiving secondary treatment.

2:30 pm Coffee Break in Exhibit Hall (Grand Ballroom)

3:30 pm Pump Retrofits – Things Aren’t Always What They Seem:
A Cautionary Tale for Owners and Engineers
Nancy Vigneault, CDM Smith; Daniel Jean, Michael Bush, OCDWEP
Many water reclamation facilities have some processes and equipment nearing their useful life. Projects are then developed focusing on replacing equipment “in-kind” or requiring new equipment technologies to be placed into the footprint of old. Owners, before the scope is written, it may be worth taking a step back and asking “is there a better way of configuring the system, even if we are going to replace the main piece of equipment in-kind?” Engineers, during design of these replace “in-kind” type systems, take note: as-builts aren’t always what they seem. This presentation describes lessons learned from the design and construction of a biosolids pumping improvements project at the Metropolitan Syracuse Wastewater Treatment Plant that was completed with good results and some interesting challenges along the way.

4:00 pm Flat or Domed? How to Choose a Cover Technology for Sludge Thickeners
Michelle McEntire, O’Brien & Gere; B. Andrew Fraser,
Monroe County Department of Environmental Services
The existing covers over the sludge thickeners at the Frank E. VanLare WWTF are at the end of their anticipated service life. Due to the interdependency between the covers and odor control system, an evaluation of several combinations of thickener cover systems and odor control technologies was completed by O’Brien & Gere. Capital and operating costs along with several other factors were used to identify the cover and odor control technology that best meets the needs of the WWTF.
Tuesday, June 6, 2017

Session 8 – Anaerobic Digestion & Beneficial Reuse (Regency C)

Contact Hours: 2 Engineer  2 Wastewater

Moderators  Jeff LeBlanc, WeCare Denali; Wendi Richards, Siewert Equipment

1:30 pm  Challenging Conventions in Anaerobic Digestion
Karen W. Clark, Richard A. Straut, Amanda J. Mattingly, Barton & Loguidice, DPC
The presentation will include strategies for small wastewater treatment plants to implement innovative
technologies with respect to anaerobic digestion and acceptance of high strength wastes thus reducing
operation costs and building a revenue stream. A case-study of the design build project at the Town of
Niskayuna Wastewater Treatment Plant will serve as an example to stream line the design process and allow
facilities to condense the overall project timeline to save engineering and capital costs.

2:00 pm  Rapid Thermal Conditioning of Sludge at Hydraulic Retention Times of Less than a Minute
Improves Anaerobic Biodegradation and Methane Production
Kyriacos Pierides, Amay Associates
Sludge thermal hydrolysis is becoming the process of choice to enhanced anaerobic digestion to improve
biodegradation and biogas production. Even though thermal conditioning is 100 years old, only recently it
has been used effectively capitalizing on lessons learned from the older processes (Porteous and Zimpro).
This presentation will review the current systems (Cambi™ and Exelys™) and focus on the Rapid Thermal
Conditioning that provides great improvements but at retention times of less than one minute.

2:30 pm  Coffee Break in Exhibit Hall (Grand Ballroom)

3:30 pm  Anaerobic Digestion Biogas Systems – Practical Considerations for Design, Startup, and Operation
Taylor Bottar, Jesse Semanchik, Barton & Loguidice, DPC
The Village of Malone recently completed a $13 million Wastewater Treatment Plant Improvements Project.
A major component of the plant upgrade was a comprehensive renovation of the existing anaerobic digester
complex and its biogas system, originally constructed in 1958. This presentation will focus on the biogas
system upgrade, highlighting key design considerations, installation and lessons learned from initial system
startup and commissioning.

4:00 pm  Compost Use in Green Infrastructure (Biosolids Municipal Compost)
Charles Duprey, Naturcycle LLC
With a focus of Biosolids compost uses around NYS, this presentation will provide a basic understanding for
water shed, stormwater managers and engineers on the proper use of compost in Green Infrastructure.

Wednesday, June 7, 2017

Session 9 – Pumping System Efficiencies (Regency A)

Contact Hours: 2 Engineer  2 Wastewater  2 Water

Moderators  Camie Jarrell, GHD; Mike Hershelman, City of Rochester

9:00 am  Rehabilitation of the Ley Creek Pump Station: Design Considerations for Wastewater Pumps, Rehabilitate or Replace?
Benjamin Tillotson, John C. Perriello, Arcadis; Nick Capozza, OCDWEP
The Onondaga County Department of Water Environment Protection owns and operates the Ley Creek Pump
Station, which is the largest in the County’s sanitary sewer collection system comprised of three 1,000 hp
pumps, each rated at 30 mgd. The pumps within the station had reached the end of their useful life. This pre-
sentation provides the steps taken to evaluate the best approach to upgrade the station and the procedures for
rehabilitation of the pumps.
9:30 am  MCDES Lake and Merrill PS, Rehabilitation of Aging Infrastructure
Mary Doran, Wendel; Kevin Quinn, Monroe County DES
The objective of this presentation is to present the removal of an aging underground pump station that is suitable for today’s wastewater conveyance and challenges, while providing a proper health and safety environment for workers. The benefit to viewers will be the lessons learned both during the study, design, and construction phases.

10:00 am  Coffee Break

10:30 am  The Rush Creek Interceptor Odyssey
Joseph Fiegl, Erie County Division of Sewerage Management
In 2003, Erie County intensified its efforts to advance a project referred to as the “Rush Creek Interceptor”. This project was developed to eliminate the Blasdell Wastewater Treatment Plant, three pumping stations, and three existing overflows – all of which were aging facilities that Erie County Sewer District No. 3 took over from other municipalities in the 2000s and would require future upgrades. This presentation will detail the implementation of this important initiative.

11:00 am  Recovering Sandy – Rehabilitation of Wastewater Pumping Stations after Superstorm Sandy
Ceren Aralp, John J. Scheri, Mott MacDonald; Kevin O’Sullivan, Kearny Municipal Utilities Authority
Two of Kearny Municipal Utilities Authority’s (KMUA) pump stations were flooded on October 29, 2012, and on October 30 their road to recovery started. Project includes but is not limited to design approaches to increase resiliency at these facilities and to obtain funding from various sources for construction. During this presentation, the speaker will provide information on the team’s experience with funding through FEMA and will summarize the thought processes to determine the optimum hazard mitigation solutions for the KMUA’s facilities.

Wednesday, June 7, 2017
Session10 – Nutrient Removal/Water Reclamation (Regency B)

Moderators  Lauren Spink, O’Brien & Gere; Ken Smith, MCDES

9:00 am  Application of Submerged Structured Sheet Media System for Wastewater Treatment
David Barrasso, Jia Zhu, Hua Li, Frank Cosolito, Brentwood Industries
A pre-engineered submerged structured sheet media system was developed for wastewater treatment in the recent decade and has been widely applied in both municipal and industrial wastewater treatment. This presentation selects installations in a variety of applications installed in recent years, including tertiary nitrification, industrial wastewater pretreatment and retrofit of conventional activated sludge for capacity increase and performance improvement.

9:30 am  West Point Military Academy – Space Saving Primary Treatment
Kaitlin Clemente, Mark Greene, O’Brien & Gere
The introduction of innovative primary treatment technology into the USMA’s new state-of-the-art Water Reclamation Facility in order to provide the treatment capacity needed with 1/10th of the real estate required, O’Brien & Gere was able to provide the equal if not better primary treatment and enhanced organic loading to anaerobic digestion for 5 MGD of wastewater under 1800 SF of footprint

10:00 am  Coffee Break
10:30 am  **Biological Treatment for High Strength Wastes**  
David Silverman, PSI Process and Equipment  
High strength wastes, such as food processing wastes, present a difficult treatment challenge for industrial facilities. These types of wastes require a much different approach than typical municipal wastes which are generally dilute, contain high levels of microbes and biological matter, and follow a predictable diurnal pattern. This presentation will discuss various types of high-strength wastes, the challenges they present, treatment approaches and alternatives, and a description of various ways in which biological treatment processes have been developed or retrofitted into facilities to perform efficiently and economically. Case studies will be presented.

11:00 am  **Solving Nutrients: How to Biologically Denitrify (And Be Phosphorus-Ready)**  
Todd Latchaw, Nexom  
New York wastewater engineers know the dangers of nitrates in treated wastewater. While continuous backwash upflow sand filters have long been a denitrification solution, what Aztec, NM and Bellefonte, PA found compelling about Blue Nite® biological denitrification is its patented control system and capability of integrating Blue PRO phosphorus removal in the same vessel. This presentation explains the Aztec and Bellefonte cases and how these full-scale installation hit 5 mg/L and 3 mg/L nitrate limits, respectively.

**Wednesday, June 7, 2017**

**Session 11 – Planning & Designing a Water Reclamation System in the Ever-Changing Regulatory Landscape/Ethics (Regency C)**

**Contact Hours:** 2 Engineer 2 Wastewater 2 Water

**Moderators**  
Lauren Livermore, Barton & Loguidice, DPC; Wayne Dodsworth, Koester Associates

**9:00 am**  **Planning and Designing Water Resource Management Facilities during the Trump Administration**  
Libby Ford, QEP, Nixon Peabody LLP  
Wastewater dischargers and design professionals must integrate emerging compliance requirements into their longer-term compliance and construction planning efforts. The new administration is proposing to undo, redo and/or significantly streamline federal requirements. It is also talking about stimulating significant new investments in infrastructure. This presentation will address significant changes to the federal laws and regulations that will drive much of what must be done with respect to wastewater and stormwater system design, construction and system management.

**9:30 am**  **Managing Multiple Projects with a Common Goal – Reducing Point Source Loading into Chautauqua Lake**  
Jenelle Geoghegan, Michael Manning, O’Brien & Gere; Thomas Walsh, South & Center Chautauqua Lake Sewer Districts; Scott Cummings, North Chautauqua Lake Sewer District  
As a result of a Total Maximum Daily Load (TMDL) for phosphorus contribution to Chautauqua Lake, several municipal agencies are taking a collaborative approach to procure funding and implement improvements to meet the common goal of protecting a treasured water resource.

**10:00 am**  **Coffee Break (Regency Foyer)**

**10:30 am**  **Code of Ethics for Water and Wastewater Professionals**  
Mark Koester, Koester Associates, Inc.  
Ethics play a role in all of our actions and decisions. This presentation will help to clarify the critical importance of ethics and how to instill them into the water and wastewater professional culture. We will explore the different aspects of ethical behavior and provide guidance in making the right “ethical” decisions. Examples of ethical “dilemmas” will be covered with a roadmap of how to navigate these.
NYWEA Operations Challenge

Monday
2:30 pm

Equipment Set-Up

June 5, 2017

Team and Judges Meeting
Process Control Event
Operations Challenge Competition
Operations Challenge Sludge “Challenge”

Reception in Exhibit Hall/5S Ceremony
Reception and Food at Genesee Brew House / Operations Challenge Awards

Tuesday
7:30 am–9:00 am
8:30 am–9:00 am
8:30 am–4:00 pm
3:00 pm–4:00 pm
4:30 pm–5:30 pm
6:30 pm–9:00 pm

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 October. The first event kicks off 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 and determine pH and alkalinity using an Orion Star A211 pH Benchtop Meter and ammonia using a Thermo Scientific Orion™ AQUAfast™ AQ4000 Colorimeter. Values will be utilized as process control tools for operation of an aerobic wastewater treatment plant.

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

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

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

Each event will be timed separately and all team members will be required to perform one task.
New York WEA
LONG ISLAND CHAPTER
Brown Tide
Jake Miller
Alec Breen
James Behr
Rob Jentz
Nick Barresi
(Alternate)

GENESEE CHAPTER
Genesee Valley
Water Recyclers
Timothy Keegan Jr.
Justin Slentz
Robert Holland
Lucas Kasperowicz
Michelle Hess
(Alternate)

METROPOLITAN CHAPTER
Jamaica Sludge Hustlers
Ray Antenucci
Robert Ferland
Anthony Petrone
Yu-Tung Chan
Joe Atkins
(Alternate)

New Jersey WEA
Jersey Devils
Kevin Barstow
John Kahnke
Adam Schiek
Mike McGlauglin
Andrew Wallace
(Alternate)
Tim Fisher
(Alternate)

METROPOLITAN CHAPTER
Bowery Bay Coyotes
Chris Reyes
Anthony Quadro
Dragan Pilovic
Yue Yue Guo
Gene Buckley
(Alternate)

CENTRAL CHAPTER
The Mixed Liquors
Michael Burkett
Casey Clark
Mike Panebianco
Peter Bartlett
Jeremy Perry
(Alternate)
James Plochocki
(Alternate)

Virgina WEA
Blue Ridge Brawlers
Lacy Burnette
Kevin Thomasson
Wayne Brown
Stephen Lofaro
Randy Williams
(Alternate and Coach)

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

2017 Operations Challenge Judges

<table>
<thead>
<tr>
<th>EVENT</th>
<th>LAB</th>
<th>COLLECTION</th>
<th>PUMP</th>
<th>SAFETY</th>
<th>PROCESS CONTROL</th>
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</thead>
<tbody>
<tr>
<td>Coordinator</td>
<td>Bill Sedutto</td>
<td>Joseph Atkins</td>
<td>Kevin McCormick</td>
<td>Joseph Massaro</td>
<td>Bob Wither</td>
</tr>
<tr>
<td>Judge</td>
<td>Steve Peletz</td>
<td>Mark Delavak</td>
<td>Dick Crescenzo</td>
<td>Steve Reiter</td>
<td>Tanya Jennings</td>
</tr>
<tr>
<td>Judge</td>
<td>Bob Wither</td>
<td>Jacob Furtner</td>
<td>Dale Grudier</td>
<td>John Sansalone</td>
<td></td>
</tr>
<tr>
<td>Judge</td>
<td>Jeff Scheuch</td>
<td>Dave Tuccio</td>
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</tbody>
</table>

Operations Challenge 2017 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
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clamanna@wendelcompanies.com

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The conference is the premier New York State venue for presentations on the latest development in the science and practice of preserving and improving water quality. Last year’s conference attracted over 150 participants who engaged in a wide variety of technical presentations, panel discussions, and special-topic sessions on various aspects of watershed protection.

Featuring Keynote Speaker, Chitra Gowda, Source Water Protection Lead for Conservation Ontario.

For more information, visit nywea.org
Conference Activities & Special Events

Monday, June 5

1:30 pm–4:30 pm  Environmental/Educational Tour – CSOAP Tunnel Tour/Van Lare WWTF Control Room

Please join us for a tour of Monroe County’s Combined Sewer Overflow Abatement Program (CSOAP) Tunnel followed by a tour of the FEV WWTF’s Control Room. Attendees will enter the below grade tunnel system at the Culver/Goodman Control Structure and be given a brief history of the CSOAP tunnel system and its current operation.

Transportation will be provided from the Hyatt Regency Hotel:
Pick up at 1:15 pm, departing at 1:30 pm, with return by 4:30 pm. Space is limited.
Sign up on the registration form.

Red Wings Baseball Game

Please join us for a fun night out to watch the Red Wings baseball team take on the Scranton Rail Riders at Frontier Field. Come cheer on one lucky NYWEA member who will be selected to throw out the first pitch. The game begins at 7:05 pm. Food and beverages will be provided.

Enter your name into the drawing for the opening pitch at the Registration Desk.

Transportation will be provided from the Hyatt Regency Hotel to the stadium:
Pick up at 5:30 pm, drop off at Redwings Field; bus returns to Hyatt for next pickup; and after game, return to Hyatt, continuous, finishing by 10:00 pm.

Tuesday, June 6

7:45 am–9:00 am  Collection Systems Meeting (Wilmorite)

Jay Boyd of Smartcover Systems will present on real-time monitoring and trending of wastewater flow depth.

1:00 pm–2:30 pm  Student Outreach at Rochester Museum & Science Center

Three fifth grade classes from School No. 3 in the City of Rochester will visit the new water cycle exhibit located at the Rochester Museum & Science Center. During their visit, students will learn about the water cycle, benefits of rain gardens and rain barrels, and the importance of stormwater management. This event is being sponsored by NYWEA and the Rochester Museum & Science Center.
YP Event – Clean-up of Mount Hope Cemetery

Please join us for this unique volunteer opportunity to clean up Rochester’s historic Mount Hope Cemetery, one of the most remarkable Victorian cemeteries in America. It is the burial site of famous historical figures, such as Susan B. Anthony and Frederick Douglass. The cemetery is composed of 196 acres of lofty hills and picturesque valleys created by glaciers and transformed into a beautiful historic cemetery. Participants will meet at 4:00 pm at Mount Hope Cemetery, located at 1133 Mt Hope Ave., Rochester, NY 14620. Please wear closed toe shoes and clothes that you don’t mind if they get dirty. Please join us afterwards at Bar 145 located at 71 Celebration Dr., Rochester, NY 14642.

For further details and to sign up, contact Michael.Hershelman@CityofRochester.Gov

Genesee Brew House

Please join us for a fun filled evening including dinner and drinks at one of Rochester’s most popular spots, the Genesee Brew House, featuring music by Water Ambassador, Mike Garland’s band, Boss Tweed, while you take in the sites of the Genesee River and downtown Rochester. Food and refreshments will be provided from 6:30 pm-9:00 pm. For anyone interested in a tour of brewery, please plan to arrive by 6:00 pm.

Transportation will be provided from the Hyatt Regency Hotel: Pick up at 5:30 pm, drop off at Brew House with continuous shuttle for next groups; evening return to Hyatt, one trip at 9:00 pm, next at 9:30 pm, finishing by 10:00 pm.

Call for Abstracts: 90th Annual Meeting

February 4–7, 2018, Marriott Marquis Hotel

Here’s an opportunity! NYWEA’s largest technical conference and exhibition is held in NYC at the Marriott Marquis. This meeting attracts over 1,500 environmental professionals. We invite you to submit an abstract for one of the 20 technical sessions. This meeting also makes available space for 185 exhibits. Presenting a paper at this meeting gives you the opportunity to share your knowledge and be recognized in the field.

Deadline for abstracts is August 1, 2017. Visit nywea.org for more information.
Exhibitors

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

Tuesday, June 6  8:00 am–5:30 pm in the Grand Ballroom

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<th>Company Name</th>
<th>Services</th>
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<tr>
<td>ABBA</td>
<td>Replacement Parts for Fairbanks Morse, Allis Chalmers and more</td>
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<tr>
<td>Aire-O-Be</td>
<td>SBR, Oxidation Ditches, Surface Aeration, Fixed Film Media System</td>
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<td>ANDritz Separation</td>
<td>Dewatering and Separation Equipment</td>
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<td>Aquaazul</td>
<td>Ultraviolet Disinfection Systems</td>
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<td>Bioscience, Inc.</td>
<td>Microbial Products, Wastewater Bacteria</td>
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<td>Claro</td>
<td>Anaerobic Digestion, Heat Exchangers, Grit Removal Systems, and Conveyors</td>
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<tr>
<td>Coldwell-Wilcox</td>
<td>Cast and Fabricated Sluice, Slide, and Flap Gates</td>
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<td>Continental</td>
<td>Customized Industrial Electric Motors from 100hp to 3,000hp</td>
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<td>Cordell Cranes</td>
<td>Dumpster-Veyor Container Transport System and Cranes</td>
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<td>EDGENG</td>
<td>Engineered Fiberglass Products</td>
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<td>EGGER</td>
<td>Vortex Pumps</td>
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<td>Envirogen Technologies</td>
<td>Biological Odor Control Systems</td>
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<td>Franklin Miller</td>
<td>Channel and In-Line Grinders for Wastewater and Sludge</td>
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<td>Guardian Environmental Products</td>
<td>Collector Chain, Drives, and All Wear Components</td>
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<td>Keystone Conveyor Corporation</td>
<td>Belt and Screw Conveyors</td>
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<td>Merrick Industries, Inc.</td>
<td>Dry and Liquid Chemical Feed Systems</td>
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<td>Olympus Technologies, Inc.</td>
<td>Quality Anaerobic Digestion Process Equipment</td>
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<td>QiLi</td>
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<td>Dewatering Containers</td>
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<td>Spectrum Water Technology</td>
<td>Scum and Grease Concentration, Oil-Water Separation, DAF</td>
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<td>TetraSolV</td>
<td>Liquid and Vapor Filtration</td>
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<td>Ventilation Equipment, Air Pollution Control Systems and Air Scrubbers</td>
<td>Venturi Flow Meters</td>
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<tr>
<td>Wyatt Engineering</td>
<td>Venturi Flow Meters</td>
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Anne Pfaff (973) 750-1180 apfaff@jagerinc.com
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The New York Water Environment Association Scholarship Committee cordially invites you to attend our twentieth anniversary fundraising event.

Thursday, October 19, 2017
Hall of Springs at Saratoga Performing Arts Center in Saratoga, New York
from 6:00 pm - 10:00 pm

We will be honoring
Congressman Paul Tonko
Joanie Mahoney Onondaga County Executive
Vincent Sapienza, P.E. NYCDEP Acting Commissioner

Join us for a unique evening amid Saratoga’s culture and history as we recognize three prominent professionals and celebrate the 20th anniversary of the Scholarship Program.

RSVP by October 5, 2017 to pcr@nywea.org
<table>
<thead>
<tr>
<th>Speaker</th>
<th>Email</th>
<th>Phone</th>
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<tbody>
<tr>
<td>Ceren Aralp</td>
<td><a href="mailto:ceren.aralp@mottmac.com">ceren.aralp@mottmac.com</a></td>
<td>973-912-2636</td>
</tr>
<tr>
<td>Jonas Balistreri</td>
<td><a href="mailto:jonas.balistreri@arcadis.com">jonas.balistreri@arcadis.com</a></td>
<td>315-446-9120</td>
</tr>
<tr>
<td>Julie Barown</td>
<td><a href="mailto:jbarown@orenco.com">jbarown@orenco.com</a></td>
<td>518-281-9651</td>
</tr>
<tr>
<td>David Barasse</td>
<td><a href="mailto:David.Barasse@brentwoodindustries.com">David.Barasse@brentwoodindustries.com</a></td>
<td>610-374-5109</td>
</tr>
<tr>
<td>Taylor Bottar</td>
<td><a href="mailto:tbottar@bartonandloguidice.com">tbottar@bartonandloguidice.com</a></td>
<td>315-457-5200</td>
</tr>
<tr>
<td>Karen Clark</td>
<td><a href="mailto:kclark@bartonandloguidice.com">kclark@bartonandloguidice.com</a></td>
<td>518-218-1801</td>
</tr>
<tr>
<td>Kaitlin Clemente</td>
<td><a href="mailto:kaitlin.clemente@obg.com">kaitlin.clemente@obg.com</a></td>
<td>518-225-9146</td>
</tr>
<tr>
<td>Gil Dichter</td>
<td><a href="mailto:gil-dichter@idexx.com">gil-dichter@idexx.com</a></td>
<td>207-329-7073</td>
</tr>
<tr>
<td>Mary Doran</td>
<td><a href="mailto:mdoran@wendelcompanies.com">mdoran@wendelcompanies.com</a></td>
<td>585-623-8939</td>
</tr>
<tr>
<td>Charles Dujardin</td>
<td><a href="mailto:dujardins@aol.com">dujardins@aol.com</a></td>
<td>201-259-7560</td>
</tr>
<tr>
<td>Charles Duprey</td>
<td><a href="mailto:cduprey@naturcycle.com">cduprey@naturcycle.com</a></td>
<td>315-707-8955</td>
</tr>
<tr>
<td>John Esler</td>
<td><a href="mailto:Eslerce@aol.com">Eslerce@aol.com</a></td>
<td>603-632-1018</td>
</tr>
<tr>
<td>Joseph Fieg</td>
<td><a href="mailto:joseph.fieg@erie.gov">joseph.fieg@erie.gov</a></td>
<td>716-858-7537</td>
</tr>
<tr>
<td>Ryan Fisher</td>
<td><a href="mailto:ryan.fisher@ghd.com">ryan.fisher@ghd.com</a></td>
<td>315-679-5762</td>
</tr>
<tr>
<td>Libby Ford, QEP</td>
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<td>585-263-1606</td>
</tr>
<tr>
<td>Peter Frick</td>
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<td>203-725-4062</td>
</tr>
<tr>
<td>Michael Garland</td>
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<td>585-753-7511</td>
</tr>
<tr>
<td>Jenelle Geoghegan</td>
<td><a href="mailto:jenelle.geoghegan@obg.com">jenelle.geoghegan@obg.com</a></td>
<td>315-956-6233</td>
</tr>
<tr>
<td>Jamie Johnson</td>
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<td>716-688-0766</td>
</tr>
<tr>
<td>Mark Koester</td>
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<td>315-697-3800</td>
</tr>
<tr>
<td>Christopher LaManna</td>
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<td>585-623-8939</td>
</tr>
<tr>
<td>Todd Latchaw</td>
<td><a href="mailto:tlatchaw@nexom.com">tlatchaw@nexom.com</a></td>
<td>616-610-9866</td>
</tr>
<tr>
<td>Michelle McEntire</td>
<td><a href="mailto:michelle.mcentire@obg.com">michelle.mcentire@obg.com</a></td>
<td>585-295-7713</td>
</tr>
<tr>
<td>Paul McGarvey</td>
<td><a href="mailto:Paul.McGarvey@ghd.com">Paul.McGarvey@ghd.com</a></td>
<td>716-24206931</td>
</tr>
<tr>
<td>Teresa Misiti</td>
<td><a href="mailto:teresa.misiti@ghd.com">teresa.misiti@ghd.com</a></td>
<td>716-856-2142</td>
</tr>
<tr>
<td>Cosimo Pagano</td>
<td><a href="mailto:Cosimo.pagano@ghd.com">Cosimo.pagano@ghd.com</a></td>
<td>315-679-5741</td>
</tr>
<tr>
<td>Kyriacos Pierides</td>
<td><a href="mailto:kpierides@amayassociates.com">kpierides@amayassociates.com</a></td>
<td>516-250-9956</td>
</tr>
<tr>
<td>Ge (Jeff) Pu</td>
<td><a href="mailto:gpu100@syr.edu">gpu100@syr.edu</a></td>
<td>215-821-5781</td>
</tr>
<tr>
<td>Thomas Robinson</td>
<td><a href="mailto:trobinson@bartonandloguidice.com">trobinson@bartonandloguidice.com</a></td>
<td>585-325-7190</td>
</tr>
<tr>
<td>Andy Sansone</td>
<td><a href="mailto:asansone@monroecounty.gov">asansone@monroecounty.gov</a></td>
<td>585-753-7684</td>
</tr>
<tr>
<td>George Selermo</td>
<td><a href="mailto:gselembro@infosense.com">gselembro@infosense.com</a></td>
<td>877-747-3245 x1</td>
</tr>
<tr>
<td>Marshall Shanno</td>
<td><a href="mailto:mshannon@paradigmenv.com">mshannon@paradigmenv.com</a></td>
<td>585-647-2530</td>
</tr>
<tr>
<td>David Silverman</td>
<td><a href="mailto:david.silverman@psiprocess.com">david.silverman@psiprocess.com</a></td>
<td>732-469-4540</td>
</tr>
<tr>
<td>Wendy Sperduto</td>
<td><a href="mailto:wsperduto@dep.nyc.gov">wsperduto@dep.nyc.gov</a></td>
<td>718-595-5050</td>
</tr>
<tr>
<td>Lauren Spink</td>
<td><a href="mailto:Lauren.Spink@obg.com">Lauren.Spink@obg.com</a></td>
<td>585-295-7735</td>
</tr>
<tr>
<td>Richard St. Aubin</td>
<td><a href="mailto:richard.st.aubin@ipexamerica.com">richard.st.aubin@ipexamerica.com</a></td>
<td>416-315-5700</td>
</tr>
<tr>
<td>Timothy Taber</td>
<td><a href="mailto:ttaber@bartonandloguidice.com">ttaber@bartonandloguidice.com</a></td>
<td>315-457-5200</td>
</tr>
<tr>
<td>James Thayer</td>
<td><a href="mailto:jamesthayer@ongov.net">jamesthayer@ongov.net</a></td>
<td>315-435-2260</td>
</tr>
<tr>
<td>Benjamin Tillotson</td>
<td><a href="mailto:benjamin.tillotson@arcadis.com">benjamin.tillotson@arcadis.com</a></td>
<td>315-671-9212</td>
</tr>
<tr>
<td>Kevin Vander Tuig</td>
<td><a href="mailto:kvandertuig@wadetrims.com">kvandertuig@wadetrims.com</a></td>
<td>216-363-0300 x22134</td>
</tr>
<tr>
<td>Nancy Vigneault</td>
<td><a href="mailto:VigneaultNO@cdmsmith.com">VigneaultNO@cdmsmith.com</a></td>
<td>315-434-3247</td>
</tr>
<tr>
<td>Brian Whittaker</td>
<td><a href="mailto:brian.whittaker@obg.com">brian.whittaker@obg.com</a></td>
<td>315-956-6955</td>
</tr>
</tbody>
</table>
As a leader in the wastewater management field for over fifty years, D&B has consistently provided municipal and private clients alike with unparalleled professionalism, integrity and innovation in the management of projects of varying complexities. Our services include:

- Wastewater Collection and Treatment
- Biosolids and Residuals Management
- Advanced Nutrient Removal
- Collection Systems/Pumping Stations
- Stormwater Management
- Combined Sewer Overflow (CSO) Management
- Enhanced Operations/Management Consulting
- Odor Control Monitoring, Treatment, and Modeling
- Sanitary Sewer Condition Assessment and Rehabilitation
- Construction Management
**Thank You to Our Sponsors!**

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<th>Opening Session</th>
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<tr>
<td><strong>Geyser Sponsors</strong></td>
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<td>AECOM</td>
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<td>Metrofab Inc.</td>
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<th>Facility Tour</th>
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<td>Cullen Company LLC</td>
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Thank You to Our Supporters!

**Advertisers**

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<td>Bendlin Incorporated</td>
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<td>GHD</td>
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<td>GP Jager Inc.</td>
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<td>Harper Control Solutions Inc.</td>
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<td>O’Brien &amp; Gere</td>
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<td>PSI Process &amp; Equipment</td>
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<td>TECSMITH, Inc.</td>
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<td>Wendel</td>
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**Exhibitors**

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<td>ADS Environmental Services</td>
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<td>Aftek, Inc.</td>
<td>MRB Group</td>
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<td>AirSep Corporation – A Chart</td>
<td>NozzTeq® Inc.</td>
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<td>Industries Company</td>
<td>Orenco Systems Inc.</td>
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<td>Arold Construction Company</td>
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<td>CPE</td>
<td>Pure Air Filtration/ GP Jager Inc.</td>
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<td>DN Tanks</td>
<td>Rockwell Automation</td>
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<td>Erdman Anthony</td>
<td>Rotork Controls, Inc.</td>
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<td>GP Jager Inc.</td>
<td>Siewert Equipment Company</td>
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<td>IDEXX Laboratories, Inc.</td>
<td>Tecumseth Group Inc.</td>
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<td>J. Andrew Lange, Inc.</td>
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<td>Koester Associates</td>
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<td>Invent Environmental Technologies, Inc./ Koester Associates</td>
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<td>MRB Group</td>
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<td>NozzTeq® Inc.</td>
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<td>Total Control System Services, Inc.</td>
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<td>Troup Environmental Alternatives LLC</td>
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<td>Wells Tudor Environmental, LLC</td>
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<td>Xylem Dewatering Solutions, Inc.</td>
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</tbody>
</table>

**Many thanks also to the Genesee Valley Chapter Local Arrangements Committee for their dedication in making this meeting a success!**

<table>
<thead>
<tr>
<th>Michelle McIntyre, GVC Chair</th>
<th>Ann Kupferschmid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wayne Dodsworth</td>
<td>Steve Peletz</td>
</tr>
<tr>
<td>Mike Garland</td>
<td>Tom Posella</td>
</tr>
<tr>
<td>Michael Hershelman</td>
<td>William Putt</td>
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<tr>
<td>Kenneth Kelsey</td>
<td>Steve Reiter</td>
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<td></td>
<td>Kathy Russell</td>
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<td>Marshall Shannon</td>
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<td>Drew Smith</td>
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<td></td>
<td>William Smith</td>
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<td></td>
<td>Lauren Spinks</td>
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### 2017 Spring Meeting At-A-Glance

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td><strong>Sunday, June 4, 2017</strong></td>
<td>(Registration Hours: 12:00 pm–5:00 pm)</td>
</tr>
<tr>
<td>9:00 am–11:00 am</td>
<td>NYWEA Executive Committee Meeting ............................................. Eastman Boardroom</td>
</tr>
<tr>
<td>11:00 am–3:00 pm</td>
<td>NYWEA Board Meeting ........................................................................ Carson</td>
</tr>
<tr>
<td><strong>Monday, June 5, 2017</strong></td>
<td>(Registration Hours: 7:30 am–4:30 pm)</td>
</tr>
<tr>
<td>8:45 am–11:00 am</td>
<td>Opening Session (Breakfast served 7:30 am–9:00 am) ....................... Regency Ballroom</td>
</tr>
<tr>
<td>7:30 am–4:00 pm</td>
<td>Operations Challenge Teams Staging ............................................... Carson</td>
</tr>
<tr>
<td>12:00 pm–5:00 pm</td>
<td>Lunch in Ballroom ............................................................................ Grand Ballroom</td>
</tr>
<tr>
<td>12:00 pm–1:30 pm</td>
<td>Lunch in Ballroom ............................................................................ Grand Ballroom</td>
</tr>
<tr>
<td>12:00 pm</td>
<td>Utility Executives Meeting ............................................................. Wilson Boardroom</td>
</tr>
<tr>
<td>1:30 pm–4:30 pm</td>
<td>Environmental Tour – MCDES CSOAP Tunnels and Control Center Meet in Lobby at 1:15 pm</td>
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<tr>
<td>1:30 pm–4:00 pm</td>
<td>Technical Session 1 – Collections ................................................ Regency B</td>
</tr>
<tr>
<td>1:30 pm–4:00 pm</td>
<td>Technical Session 2 – Disinfection ................................................ Regency C</td>
</tr>
<tr>
<td>2:30 pm</td>
<td>Operations Challenge Equipment Set-Up .......................................... Grand Ballroom</td>
</tr>
<tr>
<td>2:30 pm–3:30 pm</td>
<td>Coffee Break ........................................................................................ Regency Foyer</td>
</tr>
<tr>
<td>4:00 pm</td>
<td>Member Education Committee .......................................................... Wilson Boardroom</td>
</tr>
<tr>
<td>6:00 pm</td>
<td>Dinner and Baseball Game .............................................................. Red Wings Field</td>
</tr>
<tr>
<td><strong>Tuesday, June 6, 2017</strong></td>
<td>(Registration Hours: 7:30 am–5:00 pm)</td>
</tr>
<tr>
<td>7:00 am–8:00 am</td>
<td>Exhibit Set-Up .................................................................................. Grand Ballroom</td>
</tr>
<tr>
<td>7:30 am–9:00 am</td>
<td>Continental Breakfast ......................................................................... Grand Ballroom</td>
</tr>
<tr>
<td>7:30 am–9:00 am</td>
<td>Operations Challenge Team &amp; Judges Meeting .................................... Carson</td>
</tr>
<tr>
<td>7:45 am–9:00 am</td>
<td>Collection Systems Breakfast ........................................................... Wilmorite</td>
</tr>
<tr>
<td>8:00 am–5:30 pm</td>
<td>Exhibit Hall Open .............................................................................. Grand Ballroom</td>
</tr>
<tr>
<td>8:30 am–4:00 pm</td>
<td>Operations Challenge Event – Look for event times on-site ................ Grand Ballroom</td>
</tr>
<tr>
<td>9:00 am–12:00 pm</td>
<td>Technical Session 3 – Environmental Collaboration in Greater Rochester:</td>
</tr>
<tr>
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<td>A Model for Success .......................................................................... Regency A</td>
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<tr>
<td>9:00 am–12:00 pm</td>
<td>Technical Session 4 – CSO/SSO/Wet Weather ..................................... Regency B</td>
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<tr>
<td>9:00 am–12:00 pm</td>
<td>Technical Session 5 – Research &amp; Innovation ................................... Regency C</td>
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<tr>
<td>10:00 am–11:00 am</td>
<td>Coffee Break in Exhibit Hall ......................................................... Grand Ballroom</td>
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<td>Lunch Served in Exhibit Hall ......................................................... Grand Ballroom</td>
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<tr>
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<td>Technical Session 6 – Asset &amp; Utility Management ............................ Regency A</td>
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<tr>
<td>1:30 pm–4:30 pm</td>
<td>Technical Session 7 – Water Reclamation ......................................... Regency B</td>
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<tr>
<td>1:30 pm–4:30 pm</td>
<td>Technical Session 8 – Anaerobic Digestion &amp; Beneficial Reuse ............ Regency C</td>
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<td>Coffee Break in Exhibit Hall/SS Ceremony ....................................... Grand Ballroom</td>
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<tr>
<td>Time</td>
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<tr>
<td>3:00 pm–4:00 pm</td>
<td>Operations Challenge Sludge Challenge – All Teams</td>
</tr>
<tr>
<td>4:00 pm</td>
<td>YP Event, Clean-up Mount Hope Cemetery</td>
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<tr>
<td>4:30 pm–5:30 pm</td>
<td>Reception in Exhibit Hall/SS Ceremony</td>
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<tr>
<td>6:30 pm–9:30 pm</td>
<td>Dinner Offsite/Ops Challenge Awards (Buses start at 5:30 pm)</td>
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**Tuesday, June 6, 2017, continued**

**Wednesday, June 7, 2017** *(Registration Hours: 8:00 am–10:30 am)*

<table>
<thead>
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<tr>
<td>8:00 am–9:00 am</td>
<td>Continental Breakfast</td>
<td>Carson</td>
</tr>
<tr>
<td>9:00 am–11:30 am</td>
<td>Technical Session 9 – Pumping System Efficiencies</td>
<td>Regency A</td>
</tr>
<tr>
<td>9:00 am–11:30 am</td>
<td>Technical Session 10 – Nutrient Removal/Water Reclamation</td>
<td>Regency B</td>
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<td>9:00 am–11:30 am</td>
<td>Technical Session 11 – Planning &amp; Designing a Water Reclamation System in the Ever-Changing Regulatory Landscape/Ethics</td>
<td>Regency C</td>
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<tr>
<td>10:00 am–10:30 am</td>
<td>Coffee Break</td>
<td>Regency Foyer</td>
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</tbody>
</table>

Contact:
AJ McGinn 315.434.8885
Ike Isaacson 414.395.3180
Jay Perkins 617.714.5784
Nick Strater 603.918.0606

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# NYWEA Board of Directors and Committees

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**Committee Representatives**

- Association Activities Group – Lauren Livermore
- Technical Group – Timothy P. Taber
- Public Outreach Group – Christoph Dodson

**Executive Office**

- Executive Director .......... Patricia Cerro-Reehil
- Administrative Manager .... Maggie Hoose
- IT Specialist ............. Maureen Kozol
- Operator Certification ...... Tanya May Jennings
- DMA/Advertising Manager ...... Rebecca Martin
- Scholarship Program Manager .. Theresa Baker

## Program Committee

<table>
<thead>
<tr>
<th>Lisa Derrigan, Chair</th>
<th>Jeffrey G. Butler, Vice-Chair</th>
<th>Leo Aparri</th>
<th>Geoff Baldwin</th>
<th>Robert Bendlin</th>
<th>Patricia Cerro-Reehil</th>
<th>Sarah Dailey Gals</th>
<th>Ronald C. Deo</th>
<th>Daniel Durfee</th>
<th>Jennifer Franco</th>
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<tr>
<td>Rob Frost</td>
<td>Robert Ganley</td>
<td>Mark Greene</td>
<td>Donna Hager</td>
<td>Camie Jarrell</td>
<td>John Jeris</td>
<td>Jamie Johnson</td>
<td>Michael Kessler</td>
<td>Frederick Kinchloe</td>
<td>Robert Kukenberger</td>
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<td>Lauren Livermore</td>
<td>Mike Lynch</td>
<td>Jannine M. McColgan</td>
<td>Paul McGarvey</td>
<td>Vatche Minassian</td>
<td>Gerard Moscinski</td>
<td>James Mueller</td>
<td>Randy Ott</td>
<td>Gregg Palmer</td>
<td>Peter P. Pastore</td>
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<td>Robert R. Sharp</td>
<td>Toby Siegman</td>
<td>David Stafl</td>
<td>Dennis Stanford</td>
<td>Nancy Struzenski</td>
<td>Dahlia Thompson</td>
<td>Timothy W. Wales</td>
<td>Janine Witko</td>
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## 2017 Committee Representatives

- **Association Activities Group – Lauren Livermore**
  - Awards ............ Anthony Bacsches, Melissa Motyl
  - Hall of Fame .......... David Cross
  - Membership .......... Carol Tschudi Walczyk
  - Program ................ Lisa Derrigan, Jeff Butler
  - Conference Management ... Joyette Tyler, Dave Barnes
  - Strategic Planning ........ Robert Wither
  - Young Professionals ........ Tucker Cox

- **Technical Group – Timothy P. Taber**
  - Asset Management .......... Timothy Taber
  - Energy/Research .......... Ely Greenberg
  - Environmental Science .......... Kara Pho
  - Industrial Wastewater/Pretreat . Adam Cummings
  - Residuals and Biosolids .......... Jeff LeBlanc
  - Utility Executives .......... Chretien Voerg
  - Wastewater Collection Systems . Robert Albright
  - Wastewater Facilities .......... Alex Emmerson
  - Watershed .............. Lisa Melville

- **Public Outreach Group – Christoph Dodson**
  - Government Affairs ........ Steven Fangmann
  - Humanitarian Assistance .......... Tom Schoettle
  - Member Education .......... Mike Coley
  - Public Outreach .......... Christoph Dodson
  - Publications ............ Doug Daley
  - Scholarship ............ Afonso Lopez, Diane Hammerman
  - Student/University .......... Stefan Grimberg
  - Sustainability .............. Vincent Rubino

- **PDH Sub-committee** .......... Vincent Rubino

- **Operator Certification Governance Council**
  - Meredith Streeter

- **Collections Certification Board** .......... Rosaleen Nogle

- **Task Forces**
  - Business Plan .......... Geoff Baldwin
  - Design Standards .......... Robert Butterworth
  - Disinfection .......... Drew Smith
  - Green Infrastructure .......... Doug Greeley
  - Nutrient .......... Mark Greene
  - NYWARN ............. Vacant
  - Operator of the Future .......... Jonathan Ruff
  - Public Awareness .......... Joseph Fiegl
  - Stormwater ............ Vacant

- **Spring Meeting Conference Managers**
  - Joyette Tyler, Dave Barnes, William Grandner, William Nylie, Joe Massaro, Anthony DellaValle
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Monitoring - UV Disinfection Control – ASA Analytics Inc

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BIOLOGICAL TREATMENT/ BNR
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GRANULAR MEDIA FILTRATION

WASTEWATER MIXING

CONTROLS AND INSTRUMENTATION

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Belt Press 1-3 Meters - Table Thickener - Low Flow Belt Press – Phoenix Process Equipment Company

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

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

MATERIALS HANDLING

DECANTER CENTRIFUGE – Flows 15 – 400 GPM – Phoenix Process Equipment Company