TECHNICAL PROGRAM

EDWIN C. TIFFT JR.
WATER SUPPLY SYMPOSIUM
SEPTEMBER 19 - 20, 2018
WEST HARRISON, NEW YORK

**Wednesday, September 19, 2018 – 7:30 am Registration Open**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 1: General Session with Keynote Address in the Grand Ballroom</th>
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<tr>
<td>7:30 – 8:45 am</td>
<td>Breakfast</td>
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<tr>
<td>9:00 – 10:15 am</td>
<td>Keynote Address: Drinking Water: Opportunities &amp; Challenges</td>
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<tr>
<td>10:15 – 10:45 am</td>
<td>New York State Department of Health Regulatory Update</td>
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<td>10:45 – 11:45 am</td>
<td>Current Trends in the Disinfection of Drinking Water</td>
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**Break with the Exhibitors**

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<th>session 2A: Water Treatment &amp; Residuals</th>
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<tr>
<td>1:30 – 2:00 pm</td>
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**Lunch**

**Session 2B: Water Treatment & Residuals**

| 3:00 – 3:30 pm | Consolidation & Simplification: ECWA’s Van DeWater Plant Residuals Treatment |
| 4:00 – 4:30 pm | Piloting for Evaluation of Innovative Residuals Dewatering Technologies |

**Session 3A: Infrastructure**

| 3:30 – 4:00 pm | Holistic Approach to Upgrading an Aging Village Water System |
| 4:00 – 4:30 pm | Dam Safety Information for Water System Operators |
| 4:30 – 5:00 pm | Indian Brook Reservoir Dam Rehabilitation |

**Break with the Exhibitors**

**Session 3B: Infrastructure**

| 5:30 – 7:30 pm | Proactive Approach to Infrastructure Renewal |
| 6:00 – 7:00 pm | Investigation & Remediation of Corrosion Issues in City Tunnel 3 |

**Reception with Exhibitors & No Water, No Beer.**

**Thursday, September 20, 2018 – 7:00 am Registration Open**

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<th>Time</th>
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<tr>
<td>7:00 – 8:00 am</td>
<td>Breakfast</td>
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<tr>
<td>8:00 – 8:30 am</td>
<td>Maintaining Service to Critical Customers while Rehabilitating Tanks</td>
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<td>8:30 – 9:00 am</td>
<td>Water Storage Tank Inspection Standards &amp; Guidelines</td>
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**Break with the Exhibitors**

**Session 7: Contaminants of Emerging Concern**

| 10:00 – 10:30 am| UCMR4 Cyanotoxins: What Will you do if you Find Them? |
| 10:30 – 11:00 am| Effective PFAS Removal with Single-use Selective Ion Exchange Resin |
| 11:00 – 11:30 am| Cyanotoxin Treatment Evaluation for Skaneateles, NY |
| 11:30 – 12:00 pm| Fasttrack Treatment Response to Address Emergency Algae Event |

**Session 8: Distribution Systems**

| 10:00 – 10:30 am| The Storer Ave. Bridge Water Main Replacement |
| 11:00 – 11:30 am| SCWA’s Technical Revolution: A User Friendly Approach to Communicating Water Main Breaks |
| 11:30 – 12:00 pm| Interconnections Create Win-Win for two Major Water Utilities |
| 12:00 – 12:30 pm| NY Harbor Siphon Replacement Project |

**Session 9: Lead & Corrosion Issues**

| 10:30 – 11:00 am| Adopting Lead Service Line Policies to Meet Evolving Standards |
| 11:00 – 11:30 am| Lead Variability in Repeat at-the-tap Samples in NYC |
| 11:30 – 12:00 pm| Flint’s Path to Distribution System Optimization |
| 12:00 – 12:30 pm| A Response to Pinhole Leak Explosion |

**Program Conclusion, Evaluation & Adjournment**
Keynote Speaker

Drinking Water: Opportunities and Challenges
Douglas Pabst, EPA Region 2 Drinking Water and Municipal Infrastructure Branch

The 1996 amendments to the Safe Drinking Water Act transformed the EPA’s process for regulating contaminants in the nation’s drinking water supply. The presentation will focus on these new practices and challenges for protecting America’s drinking water by elaborating on how a contaminant can become regulated under the Safe Drinking Water Act. It will take participants through the fourth Contaminant Candidate List (CCL) and the recently launched fourth Unregulated Contaminant Rule (UCMR) process, which will allow EPA to consider five new contaminants for regulation. It will discuss how the EPA determined Maximum Contaminant Levels (MCLs) for contaminants that will be regulated, as well as the differences between MCLs, Maximum Contaminant Level Goals (MCLGs), and Health-Based Advisories. The address will also reflect on other emerging contaminants of growing concern to the American public, including Per- and Polyfluoroalkyl substances (PFAS).

About Douglas Pabst
Douglas Pabst is Chief of the EPA Region 2 Drinking Water and Municipal Infrastructure Branch. EPA Region 2 serves New Jersey, New York, Puerto Rico and the U.S. Virgin Islands. The branch develops and implements selected drinking, source and ground water programs under the Safe Drinking Water Act, oversees and supports state delegated Public Water Supply Supervision programs, the State Revolving Fund Program (multi-billion dollars of clean water and drinking water investments) and the New York City water supply protection program, which includes the Filtration Avoidance Determination. Prior to his current position, Doug has served in several key roles including as Chief of the Superstorm Sandy Recovery Green Team and Chief of the Dredging, Sediments, and Oceans Section. A major focus of his work was management of dredged material and sediments and EPA’s ocean initiatives including coral reefs. When he served as a staff environmental scientist/oceanographer, Doug was also responsible for managing the ocean disposal of wastes, and wood burning at-sea. He was very active in the implementation of the Ocean Dumping Ban Act of 1988, which phased out all ocean disposal, except for tested and approved dredged material. Doug is an EPA national expert in dredged material management and estuarine/ocean monitoring and has participated, often as chief scientist, in over 150 oceanographic surveys. Doug received a M.S. in Oceanography from SUNY Stony Brook and a B.A. in Biology from Clark University.
We are excited to be back at the Renaissance Westchester Hotel for this year’s Edwin C. Tifft Jr. Water Supply Symposium. Please use the hotel’s floor plan to the left to help you navigate the venue.

This year’s sessions will be located at:
- **Grand Ballroom**
- **Red Oak Terrace**
- **Hutchinson & Zenger**
- **Harrison Ballroom**
Join the New York Section AWWA for our 4th Annual No Water. No Beer® Fundraiser. This year the Section will be hosting a beer tasting provided by Bullseye Beverage and live music by “Back to the Garden”!

Wednesday, September 19
Renaissance Westchester Hotel - Grand Ballroom

5:30 - 9:30 pm | $25/person

5:30 pm - Beer Tasting & Hors D’oeuvres
6:30 pm - Live Music by “Back of the Garden” Begins

Cost - $25 includes tasting glass, 3 tastings and hors d’oeuvres.

Additional beer can be purchased for $5/each (cash only).

BREWERS
Barnshed Brewing  Blue Point Brewery
Gun Hill Brewing  Riverhead Ciderhouse
And More!!
Wednesday, September 19, 2018

Registration Opens: 7:30 AM
Breakfast: 7:30 - 8:45 AM
Lunch: 12:15 - 1:30 PM
Location: Grand Ballroom

Opening Session: 9:00 AM - 12:15 PM
Location: Grand Ballroom

Keynote Address
Moderator: Roopesh Joshi, PE, NYCDEP
Assistant Moderator: Richard Humann, PE, H2M architects + engineers

Keynote: Drinking Water: Opportunities and Challenges
Douglas Pabst, EPA Region 2 Drinking Water and Municipal Infrastructure Branch
The 1996 amendments to the Safe Drinking Water Act transformed the EPA’s process for regulating contaminants in the nation’s drinking water supply. The presentation will focus on these new practices and challenges for protecting America’s drinking water by elaborating on how a contaminant can become regulated under the Safe Drinking Water Act. It will take participants through the fourth Contaminant Candidate List (CCL) and the recently launched fourth Unregulated Contaminant Rule (UCMR) process, which will allow EPA to consider five new contaminants for regulation. It will discuss how the EPA determined Maximum Contaminant Levels (MCLs) for contaminants that will be regulated, as well as the differences between MCLs, Maximum Contaminant Level Goals (MCLGs), and Health-Based Advisories. The address will also reflect on other emerging contaminants of growing concern to the American public, including Per- and Polyfluoroalkyl substances (PFAS).

NYSDOH Regulatory Update
Dr. Lloyd Wilson, PhD, NYSDOH

Current Trends in the Disinfection of Drinking Water
Scott Alpert, PhD, PE, Hazen

Session 2A: 1:30 - 3:00 PM
Location: Red Oak Mansion - 2nd Floor

Water Treatment and Residuals
Moderator: Philip Tangorra, Mohawk Valley Water Authority
Assistant Moderator: Dana Bryant, Arcadis

UV/H2O2 AOP Full Scale Unit Operations
Andrew M. Manfredi, H2M architects + engineers
This presentation will delve into how the first full scale AOP system in Nassau County is being operated on a daily basis. The discussions will include start-up of the system, steady-state operation, monitoring and analytics, system control center programming, safeties and interlocks, and sampling requirements of the system, to ensure that the AOP system is working as advertised.

Optimization of UV Lamp Management
Ralph Marchitelli, PE, NYCDEP
This presentation will discuss the Department Of Environmental Protection’s approach to the development of a lamp management program at the Catskill-Delaware Ultraviolet Disinfection Facility. The goal of the program is to find the most effective method to meet the requirements within the Ultraviolet Disinfectant Guidance Manual (UVDGM) while maintaining operational reliability, flexibility and considering cost.

Surface Water Treatment Plant Optimization
Robert Raczko, PE, Suez-NA
This presentation will focus on the various tools for optimizing surface water treatment plants that operators can use at their plants. This includes techniques for improving TOC and UV254 removal, reducing DBPs; it will include examples from bench, pilot and full scale testing.

Thank You Breakfast and Lunch Sponsors

ARCADIS
Barton & Loguidice
Woodard & Curran
**Utility Management and Safety**

*Moderator: Kevin Castro, PE, GHD*

*Assistant Moderator: Dennis Kelleher, PE, H2M architects + engineers*

**Central NY’s Water Authority Leverages Drone Technology**

*Will Bianchini, Onondaga County Water Authority*

Onondaga County Water Authority has joined their UAS and GIS programs to streamline operations and gain efficiencies. This presentation will share OCWA’s success for implementing a UAS pilot program and the benefits they have gained from implementing drone technology in the field. Hear their story of how they transformed their infrastructure inspections, surface water quality observations and construction planning methodology by integrating a UAS component.

**Proactive Best Management Practices for Water Service Lines**

*Daniel Guest, HomeServe*

This session will present highlights from the research which had the following goals: (i) understand trends in service line failures, (ii) explore and explain the precise failure mechanisms that affect water service lines, (iii) develop a structured decision framework to determine whether to repair or replace specific systems that have failed and, (iv) educate and inform the various water industry stakeholders regarding the importance of water service lines management practices and strategies.

**Doting on Coatings: A Primer on Changing VOC Regulations**

*Peter Connell, D&B Engineers & Architects*

This presentation will focus on the newest VOC regulations (placed into effect on July 1, 2018), how they were derived, and their ramifications on the water supply industry.

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**Session 3A: 1:30 - 3:00 PM**

*Location: Harrison Ballroom - 1st Floor*

**Infrastructure**

*Moderator: Bill Prehoda, Suez Water*

*Assistant Moderator: Paul Ponturo, PE, H2M architects + engineers*

**Holistic Approach to Upgrading an Aging Village Water System**

*Jan Wines, Water Systems Management*

Presentation on a holistic approach to upgrading an aging ground water supply system for the Village of Croton on Hudson, Westchester County, NY. including improvements to water distribution, well refurbishment, SCADA system, emergency power, chlorine contact time system, and corrosion control.

**Dam Safety Information for Water System Operators**

*Kathryn Serra, PE, CT Male Associates*

This presentation will provide a discussion of the NYS-DEC Dam Safety regulations and how they pertain to municipal water systems.

**Indian Brook Reservoir Dam Rehabilitation**

*Micheal Kosier, PE, Arcadis*

The Indian Brook Reservoir Dam (IBRD) is a Large - Class C (High Hazard) dam located in the Village of Ossining, New York. Significant modifications were made to the IBRD to address the safety and welfare of the public downstream of the facility. The discharge capacity to the spillway was increased to safely pass the design flood with 1 foot of freeboard. The dam outlet works were constructed to provide the ability to drain 90 percent of the reservoir capacity within 14 days, assuming no inflow into the reservoir, in the event of a developing dam safety issue.

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**Break with the Exhibitors in The Commons**

*3:00 - 3:30 PM*
Consolidation and Simplification: ECWA’s Van de Water Treatment Plant Residuals Treatment System

**Julie Le, EIT, Wendel**

The Erie County Water Authority (ECWA) commissioned Wendel to conduct a tracer study and CT analysis verifying the Van de Water Treatment Plant’s (VDWTP’s) disinfection process provides adequate CT to meet the required inactivation of Giardia and viruses. The tracer study was used to determine the contact time in the treatment plant from the filter effluent through the clearwell, as well as the travel time of water through the distribution system. Additionally, several alternative modifications were evaluated for the VDWTP water service connection to bring it into compliance with regulatory CT requirements. This presentation will discuss the general approach to developing and executing a tracer study plan, while satisfying specific project goals and agency requirements.

Piloting for Evaluation of Innovative Residuals Dewatering Technologies

**Christine Thornton, PE, Hazen**

This paper demonstrates the benefits of considering alternative/innovative (newer to the marketplace) dewatering technologies (e.g., volute press, rotary fan press) to replace aging equipment (e.g., plate and frame press) resulting in smaller footprint, lower costs, and easier operations. Retrofit into an existing building has aspects related to maintaining operations during construction of the new facilities. The evaluation included bench and pilot testing to confirm the expected performance of the systems being considered.
Revolutionizing the Future of Water Utility Management

**Jose Pulido, Badger Meter**

Web-based software services, or cloud services, offered in a managed solution model are making access to AMI software systems, infrastructure and hardware platforms available in a low-cost, effective way that was not imagined just a few years ago. Using this approach, utilities can benefit from the expertise and economies of scale that a large solution provider can offer compared to what is typically available within a utility, and without the need for the utility to manage the system internally. Utilities can take advantage of these new services with minimal upfront costs and with minimal involvement of in-house personnel to start up and maintain the system. Once a decision is made to move forward, the costs are incurred only on an ongoing basis over the life of the system, rather than having to purchase the entire system up front.

Asheville’s Non-Revenue Water Program: 10 Years and Accounting

**Tory Wagoner, PE, Cavanaugh & Associates**

The City of Asheville embarked on a conservation plan to reduce wasted water losses ten years ago. This proactive program employing M36 AWWA best practices and prioritization in radical reduction of real and apparent losses and ongoing initiatives have shown documented improvement from over 7 MGD to under 4 MGD in water loss. The audience will hear how they achieved these compelling results and why their NRW program is being modeled in other areas.

**WHY SHOULD I HIRE A VETERAN?**

Veterans have many skills necessary to thrive in the water sector. They have experience working in a highly regulated environment, they have shown a commitment to public service, and they handle stress well in crisis situations. Veterans are returning to homes in rural and urban locations and looking for employment.

You need skilled employees and Veterans need jobs. It’s a perfect fit.

For more information visit [www.AWWA.org](http://www.AWWA.org)
Maintaining Service to Critical Customers while Rehabilitating Westchester County Water Tank

**Rick Gell, PE, O’Brien & Gere**

The Westchester County Water District No. 3 supplies water to the Valhalla Campus using a single 1.5 MG elevated water storage tank. The Campus has two large medical centers, a jail, a fire training center, and numerous other high volume users. The top ten water users represent 75% of the water demand. These users have continuous non-discretionary water demands that cannot easily be curtailed. Consequently, maintaining continuous water service to the entire service area while the tank is taken out of service for rehabilitation is critical. This presentation will review the evaluation and planning of temporary measures to reliably maintain water services under both normal and emergency operating conditions.

Aging Water Tanks in the North East

**Justin Keskin, Statewide Aquastore**

Detailing how a glass fused to steel water storage tank provided an economic and practical solution to a foundation with time and space constraints.

Role of Smart Tanks in Distribution Water Quality Management

**Gary Schaeffer, UGSI Solutions**

The emergence of “smart tank” design and operations now provides utilities with the ability to utilize water storage tanks as water quality intervention points. Tanks provide the perfect intervention point to solve THM spikes and low disinfectant residuals, but it all starts with powerful mixing. By revisiting water storage resources as intervention points, overall treatment can be optimized with the added potential for reducing treatment plant costs as they relate to THM reduction and disinfectant residual levels. This presentation will examine the under-utilized water storage tank as an asset that can be used to improve distribution water quality with several methodologies. Several case studies that illustrate “smart tank” technology improving chlorine residuals, reducing THMs and maintaining chloramine residuals will be included in the presentation.

Water Storage Tank Inspection Standards and Guidelines

**Penni Snodgrass, Tank Industry Consultants**

This presentation will offer an overview of AWWA tank inspection standards and guidelines, and compare them to other industry recommendations such as those published by the National Fire Protection Association (NFPA). The up-coming AWWA D101 inspection standard, AWWA M42, and the Steel Tank handbook will be reviewed and compared to NFPA 25 and guidelines of state regulatory agencies.
UCMR4 Cyanotoxins: What will you do if you find them?

Keith Cartnick, Mott MacDonald

EPA issued Health Advisories (HAs) for cyanotoxins in drinking water in 2015, and many utilities subject to surface water as a source of supply will monitor for a group of cyanotoxins during the Unregulated Contaminant Monitoring Rule (UCMR4) beginning this year. This presentation will provide relevant information and guidance on this issue, and will discuss strategies to help prevent, mitigate, and treat Harmful Algae Blooms (HABs) and associated toxins. It will also present resources and tools available from AWWA and EPA, discuss proper cyanotoxin monitoring and confirmation techniques for finished water, and provide insight regarding appropriate outreach strategies to customers.

Effective PFAS Removal with Single-Use Selective Ion Exchange Resin

Francis Boodoo, Purolite Corporation

Contamination of water by PFCs or PFASs is now a global issue. Commercial use of selective ion exchange (IX) resin now demonstrates high operating capacity and ability to reduce PFOS, PFOA and other PFASs to non-detectable levels. Side-by-side performance of IX and GAC is given along with comparative capital and operating costs. Guidelines on proper system design and operation are provided.

Cyanotoxin Treatment Evaluation for Skaneateles, NY

Erica Goldin, GHD

In response to microcystin detection in Skaneateles Lake, evaluations were initiated to determine how best to treat microcystin. Evaluations considered a number of treatment technologies but focused on chlorine, granulated activated carbon contactors, and UV advanced oxidation.

Fast Track Treatment Response to Address Emergency Algae Event

Erik Rosenfeldt, Hazen

In June 2017, both sources of the Chelsea Water Treatment Plant in Beaufort, SC were inundated with a large algae bloom. Forced to treat the water with large algal content, the Plant experienced treatment issues, including ineffective pretreatment, inefficient turbidity removal across the filters leading to elevated post-filtered turbidity, lack of filter headloss development, and an inability to return backwashed filters to acceptable service in a timely manner. This presentation provides a brief summary of the treatment challenges faced, measures taken in response to these challenges, and develops lessons learned from the experience, providing some recommendations for short-term, proactive measures which can be implemented for other utilities to develop potential response actions for such events.

AWWA Exam Prep App

PASS your Water Operator Certification Exam

- Developed by water industry experts
- See answer explanations, including equations & formulas
- Track your progress with charts & detailed results

Visit www.AWWA.org
The Storer Avenue “Bridge” Water Main Replacement

Gerardo Moreno, PE, Suez Water New York

In 2017, Suez Water Westchester relocated approximately 100 feet of an above grade 16” cast iron water main on the side of a bridge. The problem? The bridge, which had originally carried Storer Avenue over the New York, Westchester, & Boston Rail Company Railroad, had been backfilled on all sides, and developed into residential properties in the 1950’s. The bridge had not been operated or maintained as a structural element since the 1950s, and Suez Water Westchester needed to develop a plan to relocate the existing 16” water main from above grade to within City right-of-way, through existing abutments, roadway surface, and unknown backfill. Suez Water Westchester effectively worked with its consultants to develop a plan to safety and effectively relocate the 16” water main while maintaining a predictable cost of construction and mitigating future risk with regards to roadway integrity.

SCWA’s Technical Revolution: A User-Friendly Approach to Communicating Water Main Breaks

James Touchet, Suffolk County Water Authority

As the largest groundwater supplier in the country, the Suffolk County Water Authority (SCWA) has more than 6,000 miles of water main distributed throughout Long Island. The communication of water main breaks is an essential component for the continuity of business. Through a newly developed ArcGIS Online application, SCWA has created a tool that allows staff members to use, create, and share pertinent information regarding water main breaks. This allows vital information to be visible to key staff on a multitude of platforms resulting in a more targeted and efficient approach to maintenance and replacement of water mains.

Interconnections Create Win-Win for two Major Water Utilities

Brian Edwards, PE, O’Brien & Gere

Maintaining continuous water supply to customers – even during unforeseen emergencies – is a critical mission of utilities. This presentation will review the experiences two large utilities have had in dealing with major disruptions as well the benefits experienced due to interconnections and intermunicipal cooperation.

NY Harbor Siphon Replacement Project

Adam Jacoby, PE, Mott MacDonald

New York Harbor links Staten Island to the end of the NYC water system delivering clean drinking water from nearly 80 miles north of the city. The new generation of megaships to enter the harbor required deepening of the harbor, which required replacing aging water mains with a new steel pipeline in a concrete-lined tunnel. To avoid excess chlorination upstream, the project included construction of a new automated chlorine booster station with some very unique design features.
Adopting Lead Service Line Policies to meet Evolving Standards

David Rowley, PE, City of Rochester Water Bureau

Municipal water systems with lead service lines have seen a dramatic change in industry guidance and standard practice in the last four years. The City of Rochester has invested nearly two years in completely overhauling its approach to communicating the risks of lead in tap water, and its construction practices where lead service lines are involved. This presentation will show how the Rochester Water Bureau has incorporated industry best practices for communication and construction to ensure its customers understand the risks of lead in tap water, and can be active participants in reducing their exposure to lead.

Flint’s Path to Distribution System Optimization

AJ Brooks, PE, Arcadis

In the aftermath of the events in Flint, Michigan and in anticipation of the Long-Term Lead and Copper Rule, many utilities are considering how to proactively position themselves to achieve compliance with the potential future regulations, and are working with their customers to develop active lead service line replacement programs. This presentation will discuss strategies for achieving full replacement and potential funding and financing options for both the public and private portions.

A Response to Pinhole Leak Explosion

James Neri, PE, H2M architects + engineers

Pinhole leaks in copper plumbing can result in significant and costly property damage, mold growth and pipe repair or replacement. Pinhole formation is a complex process that often evades understanding and the dimensions of a problem can be unclear to the water supplier since leaks are often rarely reported. Responding to significant social media, one Long Island public water supplier quickly developed a multifaceted outreach response and data-mining effort to isolate possible water quality changes that might contribute. Patterns consistent with other studies emerged but data-mining noted distribution system alkalinity levels, while normally low, had dropped to non-detection with introduction of packed tower aerator treatment (air-strippers), necessitating steps to attempt to restore alkalinity to historic concentrations and to develop long term monitoring approaches to determine success.

Mark Your Calendar

Edwin C. Tifft Jr.

Water Supply Symposium

October 2 - 3, 2019

Buffalo, NY
New York Section AWWA Committees 2018 - 2019

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R. Daniel Macelrath, NYSDOH
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Paul Cabral, CDM Smith
Trina Carman, NYSAWWA
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Richard Gell, O’Brien & Gere
Paul Granger, Port Washington Water District
Brooke Hamberger, Nussbaumen & Clarke
Judith Hansen, Kingston Water Department
Julie Herzner, Hazen
Nicholas Hyde, GHD
Jenny Ingrao, NYSAWWA
Dennis Kelleher, H2M Architects + Engineers
Dan Marshall, Latham Water District
William Merkin, D&B Engineers and Architects
Paul Ponturo, H2M Architects + Engineers
Swaroop Puchalapalli, D&B Engineers and Architects
Brian Sibiga, Wendel Companies
Rich Strait, Barton & Loguidice

Jenny Ingrao, Executive Director
at jenny@nysawwa.org.

If you are interested in joining a committee contact

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James Broman, Village of Waterloog
Gary Cannerelli
Kevin Castro, GHD
John Cimino, Cimino Backflow Testing & Inspection
Thomas F. Clark, NYSAWWA, Village of Waterloog
John Frazer, Latham Water District
Richard Gell, O’Brien & Gere
Leah Hamish
David Hill, Veolia North America
Robert Holzmaccher, J.R. Holzmaccher
Jenny Ingrao, NYSAWWA
Raymond Letterman
Paul Ponturo, H2M Architects + Engineers
Jason Railing, NYCDP
Anne Seeley, NYCDP
Andrew Weiss, Onondaga County Water Authority

If you are interested in joining a committee contact

Jenny Ingrao, Executive Director
at jenny@nysawwa.org.

September 19-20, 2018 • West Harrison, NY
Upcoming Training Sessions

Basic Laboratory Skills
Full Day - $100 members | $150 non members
  October 3 - Hobart
  October 5 - Middletown
  October 16 - Peru
  October 18 - Ticonderoga
  October 30 - Ithaca
  October 31 - Olean
  November 1 - Dunkirk
  November 5 - Poughkeepsie
  November 15 - Watertown

Workforce Development Workshop
Full Day - Free
October 11 - East Syracuse

Register at www.NYSAWWA.org
SAVE THE DATE

NEW YORK’S WATER EVENT

APRIL 16 - 18, 2019

SARATOGA SPRINGS, NEW YORK

CALL FOR PAPERS

DEADLINE TO SUBMIT

DECEMBER 14, 2018

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