

- ◆ NJ PE Credits
- NY PE Credits
- NJ Water Operator Credits (TCH)
- NJ Wastewater Operator Credits (TCH)

**TUESDAY MARCH 19, 2019**

Registration Desk Open: 9:00 - 5:00

Exhibitors Set Up: 9:00 - 4:00

## Opening Technical Session: "Smart Water: The Next Generation"

SALON A	
9:55 am	Welcome and Opening
10:00 am - 12:00 pm	<b>Opening Technical Session Part 1</b> <b>02-031901-10 2.0 ◆■●</b> PO/APO: Josh Hutson/Mark Tompeck
10:00	Real-time Management of Smart Water Systems using Big Data - <i>Ken Thompson, Jacobs</i>
11:00	Smart Water Development at DC Water - <i>Mike Mulcare, MottMacDonald</i>
12:00 - 1:00 pm	LUNCH ON YOUR OWN
1:00 - 4:15 pm	<b>Opening Technical Session Part 2</b> <b>02-031902-30 3.0 ◆■● 2.0 □</b> PO/APO: Josh Hutson/Eileen Murphy
1:00	Digital in the Water Utility Industry - <i>Caroline Caglioni, Arcadis</i>
1:45	Ensuring Infrastructure Optimization: Leveraging Data Analytics to Achieve Successful Asset Management - <i>James MacDonald, Hazen &amp; Sawyer</i>
2:30-2:45 pm	COFFEE BREAK
2:45	Use of Genetic Algorithms to Define Finished Water Storage Replacement Program - <i>Gayla Fecher and Alberto Quiroz, SUEZ</i>
3:30	Getting off the Ground: Building an Asset Management Drone Program - <i>Chris Kahn, American Water</i>
4:15 pm	BREAK
4:50 pm	<b>Opening General Session featuring Keynote Speaker Catherine McCabe, Commissioner, New Jersey Department of Environmental Protection</b>

### OPENING NIGHT MEET & GREET IN THE EXHIBIT HALL

5:45 - 7:45 pm

Get more program details in our Conference App!  
 View presentation abstracts, interactive maps for session rooms,  
 create your own schedule and more... Scan the QR Code at right to  
 download the App  
 (powered by Guidebook)



# WEDNESDAY MARCH 20, 2019

Registration Desk Open: 7:30-4:00

Exhibits Open: 7:30-4:00

Continental Breakfast in the Exhibit Area

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	ROOM -- SALON A	ROOM -- SALON C
8:15 - 9:45	<b>REGULATORY</b> <b>02-031904-10</b> 1.5 ◆■	<b>SURFACE WATER TREATMENT</b> <b>02-031909-10</b> 1.5 ◆■●
	PO/APO: Ron von Autenried/Suzanne Chiavari	PO/APO: Mark Tompeck/Joe Stanley
8:15	Division of Water Supply and Geoscience 2019 Initiatives - <i>Patricia Gardner, NJDEP</i>	Saving Lives with Safe Water: Protecting our Veterans with a State of the Art Membrane Plant - <i>John Civardi and Margie Gray, Mott MacDonald</i>
8:45	Regulatory Update - <i>Kristin Tedesco, NJDEP</i>	Process Optimization in Partnership with MWWA - <i>Bob Raczko, SUEZ</i>
9:15	Lead and Copper Rule Update - <i>Kristin Hansen, NJDEP</i>	Developing Sustainable Solutions to Mitigate the Impacts of Road Salt at WTPs - <i>Eileen Murphy, Hazen &amp; Sawyer</i>
9:45 -10:15	VENDOR APPRECIATION COFFEE BREAK	
10:15-11:45	<b>CONDITIONS ASSESSMENT</b> <b>02-031905-10</b> 1.5 ◆■● 1.0 □ (02-031906-20)	<b>PFAS TREATMENT</b> <b>02-031910-10</b> 1.5 ◆■●
	PO/APO: Joe Bongiovanni/Ron von Autenried	PO/APO: Mark Tompeck/Joe Stanley
10:15	Inspecting the Un-inspectable: A Condition Assessment Journey of the Raritan Millstone Transmission Main - <i>Ethan Vidal, Pure Technologies and Bryan Slota, NJ American Water</i>	Planning for a Success: One Utility's Proactive Approach to PFAS Removal and Public Outreach - <i>Michael Mondello, Arcadis and Daniel Timmeny, Ridgewood Water</i>
10:45	Using Condition Assessment to Yield Smart Decision-Making for Capital Improvement Projects - <i>Hetal Mistry, SUEZ Water New Jersey</i>	A Strategy to Reduce PFAS Levels Through Dilution in Public Supply Wells - <i>Bruce Fowler, Sevee and Maher Engineers and Frank Marascia, NJ American Water</i>
11:15	Non-Invasive Pipeline Condition Assessment Using Inverse Transient Pressure Wave Analysis - <i>Mike Funk, HydromaxUSA</i>	Implementing the Optimal PFAS Treatment Solution for Two Groundwater Systems - <i>Jihyon Im and Charles Schaefer, Jr, CDM Smith</i>
11:45-1:00	LUNCH in the EXHIBIT HALL	
1:00-2:00	<b>AGING INFRASTRUCTURE</b> <b>02-031907-10</b> 1.0 ◆■●	<b>ADVANCED OXIDATION</b> <b>02-031911-10</b> 1.0 ◆■●
	PO/APO: Gene DeStefano/Bryan Slota	PO/APO: Joe Stanley/Mark Tompeck
1:00	Replacing a Pumped Storage System with Gravity Storage - <i>Alec Mittiga and Gustavo Lourenco, Crew Engineers</i>	UV/H2O2 AOP Full Scale Unit Operations - <i>Andrew Manfredi, H2M architects + engineers</i>
1:30	Aging Infrastructure: Affordably Bringing a Resource-Limited Water System into the 21st Century - <i>Eileen Feldman, Hazen &amp; Sawyer</i>	Is UV Always the Best Treatment for 1,4-Dioxane Now and in the Future? - <i>Sandra Kutzing, CDM Smith and Jaise Ulahannan, NJ American Water</i>
2:00-2:30	VENDOR APPRECIATION COFFEE BREAK	
2:30-3:30	<b>TRENCHLESS SOLUTIONS</b> <b>02-031908-10</b> 1.0 ◆■●	<b>RISK ASSESSMENT</b> <b>02-031912-30</b> 1.0 ◆■●□
	PO/APO: Bryan Slota/Gene DeStefano	PO/APO: Joe Stanley/Mark Tompeck
2:30	Innovative Trenchless Technology Solution to Cross Hard Rock - <i>Edward Gajek, Mott MacDonald and John Gillespie, NJ American Water</i>	Asset Management and Risk/Resiliency Assessments: Water Infrastructure Act of 2018 - <i>Suzanne Chiavari and James Chelius, American Water</i>
3:00	Teaberry Lift Station: Unique Challenges in Lakewood, NJ - <i>Jeff DeRusso, NJ American Water</i>	Integrating Asset Management and Emergency Preparedness Principles to Assess Risk - <i>Sarah L. Moore, Arcadis</i>
3:30-3:45	BREAK	
3:45-5:45	<b>ANNUAL BUSINESS MEETING, OPERATORS &amp; STUDENTS TRIVIA BOWL, and METER MADNESS</b> Presentation of Hal Florence Operator's Meritorious Service Award, Next Generation Award and more!	
9:00 pm	<b>Special Event! Water Hammer at the Premier Night Club -- join us for our annual rockin' out event with the Section Band</b>	

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WEDNESDAY MARCH 20, 2019

Registration Desk Open: 7:30-4:00

Exhibits Open: 7:30-4:00

Continental Breakfast in the Exhibit Area

OPERATORS TRACK		STUDENT TRACK
<b>All Operator Track Sessions will take place in the new "Central Conference Center" downstairs</b>		<b>Student Track(s) will take place upstairs in Studio Room 1</b>
8:15 - 9:45	<b>OPERATIONS 1</b> <b>02-031913-10</b> 1.5 ◆■●	<b>STUDENT TRACK: Part One</b> <b>02-031932-10</b> 1.0 ◆■●
	PO/APO: John Hroncich	PO: Amit Kulkarni
8:15	Air Stripping Towers: The Value of Maintenance - <i>Chris Savino, Layne</i>	Balancing a Zone: How Assets Work Together in a Water System - <i>Youssef Al Fahham, Mott MacDonald and Thomas Barnes, Middlesex Water Company</i> The Ripple Effect: How Change Happens - <i>Shivangi Ganatra, Jacobs</i>
8:45	Source Water Treatment Technologies - <i>John Perry, Montville Township</i>	
9:15	Biomanipulation for Source Water Quality - <i>John Perry, Montville Township</i>	
9:45 -10:15	VENDOR APPRECIATION COFFEE BREAK	
10:15-11:45	<b>OPERATIONS 2</b> <b>02-031914-10</b> 1.5 ◆■●	<b>STUDENT TRACK: Part Two</b>
	PO/APO: John Hroncich	PO: Hannah Delos Reyes
10:15	The Development and Implementation of a WQAA Valve and Hydrant Inspection Program - <i>Jan Chwiedosiuk, Middlesex Water Company</i>	Diverse Career Paths Panel - <i>Amit Kulkarni, Mott MacDonald and Laura Norkute, New Jersey American Water</i>
10:45	Controlling the Aging Infrastructure Pandemic - <i>Dave Lewis, Wachs Water Services</i>	
11:15	OSHA Compliance: Tips & Techniques - <i>Tom Burgess, T&amp;M Associates</i>	
11:45-1:00	<b>LUNCH in EXHIBIT HALL</b> <b>STUDENTS -- MEET THE BOSS LUNCHEON</b>	
1:00-2:00	<b>OPERATIONS HANDS-ON SESSIONS - DOWNSTAIRS IN THE 'CENTRAL CONFERENCE CENTER'</b> <b>PO: Laura Norkute</b>	
1:00	A: Valve Actuator Operations - Raritan B: Fire Hydrant Maintenance & Repair - Mueller C: Field Inventory, Operations & Solutions - ESRI D: Cleaning/Calibration of Process Turbidimeters - HACH	Operator Hands-On Sessions <ul style="list-style-type: none"> <li>• 30 minutes per topic -- <b>attend all four to earn 2.0 TCHs</b></li> <li>• Look for members of our Licensed Operator Committee in Bright Orange Shirts, to help guide you from session to session</li> <li>• Be sure to scan IN and OUT of each Hands-On Session to get credits</li> </ul>
1:30	A: Valve Actuator Operations - Raritan B: Fire Hydrant Maintenance & Repair - Mueller C: Field Inventory, Operations & Solutions - ESRI D: Cleaning/Calibration of Process Turbidimeters - HACH	
2:00-2:30	VENDOR APPRECIATION COFFEE BREAK	
2:30-3:30	<b>OPERATIONS HANDS-ON SESSIONS - DOWNSTAIRS IN THE 'CENTRAL CONFERENCE CENTER'</b> <b>PO: Laura Norkute</b>	
2:30	A: Valve Actuator Operations - Raritan B: Fire Hydrant Maintenance & Repair - Mueller C: Field Inventory, Operations & Solutions - ESRI D: Cleaning/Calibration of Process Turbidimeters - HACH	<b>Valve Actuator Operations:</b> Bill Richardson, Raritan Group <b>Fire Hydrant Maintenance &amp; Repair:</b> Andy Clauhs, Mueller <b>Field Inventory, Operations &amp; Solutions:</b> Matt Kennedy and Santino DePaul, ESRI <b>Cleaning/Calibration of Process Turbidimeters:</b> Herb Campos, HACH
3:00	A: Valve Actuator Operations - Raritan B: Fire Hydrant Maintenance & Repair - Mueller C: Field Inventory, Operations & Solutions - ESRI D: Cleaning/Calibration of Process Turbidimeters - HACH	
3:30	BREAK	
3:45-5:45	<b>ANNUAL BUSINESS MEETING, OPERATORS &amp; STUDENTS TRIVIA BOWL, AND METER MADNESS!</b> Presentation of Hal Florence Operator's Meritorious Service Award, Next Generation Award and more	
9:00 pm	<b>Special Event! Water Hammer at the Premier Night Club -- join us for our annual rockin' out event with the Section Band</b>	

# THURSDAY MARCH 21, 2019

- Interfaith Breakfast 7:30-8:30
- Registration Desk Open: 8:00-2:00
- Exhibits Open: 8:00-1:30
- Continental Breakfast in the Exhibit Area

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	SALON A	SALON C	STUDIO 2
8:45 - 9:45	<b>NON-REVENUE WATER</b> 02-031918-10 1.0 ◆■●	<b>FILTRATION</b> 02-031924-10 1.0 ◆■●	<b>RESILIENCY</b> 02-031928-30 1.0 ◆■●□
	PO/APO: John Hroncich	PO/APO: Eileen Murphy/Orren Schneider	PO/APO: Laura Norkute/Suzanne Chiavari
8:45	Meter Management: Advanced Solutions for Prioritizing Meter Replacement and Revenue Recovery - <i>Carl Sharkey, Valor Water Analytics</i>	Filter Media and Filtration Techniques: Then and Now - <i>Kyle Boehme, CDM Smith, and Youssef Al Fahham and Keith Cartnick, Mott MacDonald</i>	Long-term Flood Protection at NJ American's R-M Plant - <i>Robert Ferrell; Jorge Bueno-Galdo, AECOM Technical Services and Manoj Patel, NJ American Water</i>
9:15	Demystifying Water Loss in North America - <i>Steve Cavanaugh, Cavanaugh Associates</i>	AguaClara: Gravity Powered Water Treatment Design - <i>Mehrin Selimgir, Gannett Fleming</i>	Resiliency Considerations for Coastal Facilities - <i>Joseph Marrone and Kristin Wheaton, Arcadis</i>
9:45 - 10:30	<b>VENDOR APPRECIATION COFFEE BREAK - EXHIBIT HALL</b>		
10:30- NOON	<b>INFRASTRUCTURE MANAGEMENT</b> 02-031919-10 1.5 ◆■ 1.0 ●□	<b>DISTRIBUTION WATER QUALITY</b> 02-031925-10 1.5 ◆■●	<b>STORAGE</b> 02-031929-10 1.5 ◆■●
	PO/APO: Suzanne Chiavari/Joe Stanley	PO/APO: Joe Bongiovanni/Eileen Murphy	PO/APO: Josh Hutson/Joe Frissora
10:30	Water & Wastewater Systems' Cyber Security Considerations - <i>L. Chris N. Shepherd</i>	Utilization of Mixed Oxidants to Improve Residual and Overall Water Quality in Distribution Systems - <i>Robert Newton, Johnson Matthey-MIOX</i>	Newstead Sphere Emergency Repair: Extensive Contingency Planning Ensured Continuous Potable Water Supply - <i>James Jensen and Kristin Munoz, HDR</i>
11:00	Practical Implementation of Asset Management, Data Collection, Digital Mapping and NJDEP Guidelines - <i>Arthur Astarita and Michael Cohrs, RCAP Solutions</i>	Disinfection and Disinfection Byproducts in Distribution Systems - <i>Radhika Patel, Brown and Caldwell; Nelya Meystelman, HDR; and Vincent Monaco, NJ American Water</i>	Partnering with the US Navy: A Guide to Effective, Long-Term Water Storage Tank Maintenance on a Global Scale - <i>Nicole Clarke, Tank Industry Consultants</i>
11:30	Collaborating to Develop Metrics for Asset Management Programs - <i>Chris Andreasen, Middlesex Water Company and Dan Kennedy, UTCANJ/NJ Water Works</i>	Chloramine Disinfectant Residual Optimization and Management in Distribution Networks - <i>Tom Caulfield, UGSI Solutions and Ryan Ural, NJ American Water</i>	Long-Term Considerations of ASR as a Managed Aquifer Recharge Option - <i>Frank Getchell and Karen Bensen, WSP USA</i>
NOON- 1:30	<b>LUNCH in the EXHIBIT HALL with WFP Drop in the Bucket Auction: 12:30 - 1:15 pm</b>		
1:30-3:00	<b>DISTRIBUTION SYSTEM OPTIMIZATION</b> 02-031922-10 1.5 ◆■●	<b>EMERGING CONTAMINANTS</b> 02-031926-10 1.5 ◆■●	<b>WATER SUPPLY</b> 02-031930-10 1.5 ◆■●
	PO/APO: Joe Frissora/Josh Hutson	PO/APO: Orren Schneider/Joe Bongiovanni	PO/APO: Jim Nekus/Suzanne Chiavari
1:30	Flint's Path to Distribution System Optimization - <i>Rebecca Slabaugh, Arcadis</i>	UCMR4 Cyanotoxins: What will you do if you find them? - <i>Keith Cartnick, Mott MacDonald</i>	Risk Management for Northeastern New Jersey Water Supplies - <i>Steven Nebiker, HydroLogics and Alberto Quiroz, SUEZ</i>
2:00	Enhancing System Flushing with a Distribution Model - <i>Brittney Kovary, SUEZ Water</i>	Are We Ready for Cyanotoxins? Evaluating Reservoir and Treatment Plant Options - <i>Margaret Kearns, Corona Environmental and Drew Saskowitz, SMCMA</i>	Customizing Emergency Response Drills to Test Source Water Contamination Preparedness in a Changing Source Water Threat Landscape - <i>Jennifer Benjamin, Corona Environmental and Mark Theiler, Middlesex Water Company</i>
2:30	Corrosion: Best Practices to Prevent and Manage this Uninvited Guest - <i>Sean Lammerts, US Pipe</i>	Achieving Compliance with the new NJDEP 30 ng/L 1,2,3-TCP MCL: Lessons from California's 5 ng/L MCL - <i>Jake Causey, Corona Environmental</i>	Evaluating and Modeling Jersey City's Emergency Interconnection - <i>Brian Chittum and Jordan Volk, Maser Consulting; and Rajiv Prakash, JCMUA</i>
3:00-3:15	<b>BREAK</b>		
3:15-4:15	<b>ETHICS</b> 02-031923-30 1.0 ◆■●□	<b>LEAD</b> 02-031927-10 1.0 ◆■●	<b>CONSTRUCTION</b> 02-031931-10 1.0 ◆■●
	PO/APO: Joe Stanley/Eileen Murphy	PO/APO: Sandy Kutzing/Suzanne Chiavari	PO/APO: Ron von Autenried/Jim Nekus
3:15	Ethics for Professionals in Working with Public Entities - <i>Kevin Kent, Conrad O'Brien, PC</i>	Corrosion Monitoring: A Comprehensive Approach - <i>Maria Tortorelli, Mott MacDonald and Ryan Furrey, Ridgewood Water</i>	Open Heart: Retrofitting a 25MGD Station While Maintaining Operations - <i>Murat Kocak and Michael Piemontesi, Buck, Seifert &amp; Jost; and Mohammed Selimgir, SUEZ</i>
3:45		LCR Triggered Lead Service Line Replacement Programs: Implementation and Experience - <i>Joseph Lakner, CDM Smith</i>	Proactive Approach to Groundwater Contamination Using Design-Build - <i>Scott Pendergrass, Mott MacDonald; Robert Biehler and Frank Marascia, NJ American Water</i>
6:00 pm	<b>ATTENDEE APPRECIATION &amp; AWARDS DINNER - Join us to celebrate the end of another great Conference! Reception, Dinner, and presentation of some of the Section's most important awards</b>		