



# ERIE COUNTY WATER AUTHORITY

## MEMORANDUM INTEROFFICE M

September 2, 2026

TO: Jennifer Hibit, Secretary to the Authority

FROM: Sabrina Figler, Director of Water Quality

SUBJECT: Permission for Gabriella Holevinski, Analytical Chemist, to Attend AWWA WQTC, Memphis, Tennessee

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The AWWA WQTC is a technical conference featuring sessions on critical infrastructure and regulatory topics, specialized sessions covering regulatory compliance, water quality, operations, asset management, source water protection, cybersecurity, PFAS treatment, climate resilience, and emerging contaminants.

I would like permission for Gabriella, Analytical chemist to attend. Thank you for your consideration.

Sincerely,  
*Sabrina Figler*

Sabrina A. Figler

### BUDGET:

Travel: 1030 401000 640212  
Current balance: \$3546.00

**ERIE COUNTY WATER AUTHORITY  
AUTHORIZATION FORM  
For Approval/Execution of Board Meeting Documents**

**Document Name:** \_\_\_\_\_ **Project No.:** \_\_\_\_\_

**Description:** \_\_\_\_\_

**Item Description:**

Choose one: \_\_\_\_\_

Other: \_\_\_\_\_

**Action Requested:**

Choose one \_\_\_\_\_

Other: \_\_\_\_\_

**Approvals Required:**

**APPROVED AS TO CONTENT:**

Chief Financial Officer

\_\_\_\_\_ 

Date: \_\_\_\_\_

Chief Operating Officer

\_\_\_\_\_

Date: 09/08/2026

Claims Rep. – Risk Manager

\_\_\_\_\_

Date: \_\_\_\_\_

Comptroller

\_\_\_\_\_

Date: \_\_\_\_\_

Director of Administration

\_\_\_\_\_

Date: \_\_\_\_\_

Director of Distribution

\_\_\_\_\_

Date: \_\_\_\_\_

Director of Human Resources

\_\_\_\_\_

Date: \_\_\_\_\_

Director of IT

\_\_\_\_\_

Date: \_\_\_\_\_

Sr. Director of Operations & Infra

\_\_\_\_\_

Date: \_\_\_\_\_

Director of Planning & Water Supply

\_\_\_\_\_

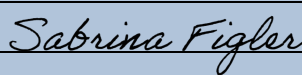
Date: \_\_\_\_\_

Director of Production

\_\_\_\_\_

Date: \_\_\_\_\_

Director of Water Quality

\_\_\_\_\_ 

Date: 9/2/2026

Executive Engineer

\_\_\_\_\_

Date: \_\_\_\_\_

General Counsel (Legal)

\_\_\_\_\_

Date: \_\_\_\_\_

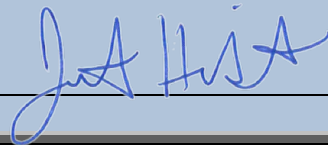
Other: \_\_\_\_\_

\_\_\_\_\_

Date: \_\_\_\_\_

**APPROVED FOR BOARD RESOLUTION:**

Secretary to the Authority

\_\_\_\_\_ 

Date: 09/08/2026

Remarks: \_\_\_\_\_

Resolution Date: \_\_\_\_\_ Item No: \_\_\_\_\_

# TRAVEL REQUEST

Date: 9/2/2026

| Employee Name        | Job Title          | Department    |
|----------------------|--------------------|---------------|
| Gabriella Holevinski | Analytical Chemist | Water Quality |
|                      |                    |               |
|                      |                    |               |
|                      |                    |               |
|                      |                    |               |

Destination: AWWA WQTC MEMPHIS TENESSEE

Is this training needed to meet professional licensing requirements? NO

Description of training or business, and reasons and benefits of attendance: The conference provides information on the latest research, technologies to improve water quality, including topics on emerging contaminants, PFAS, lead and copper, contaminants of concerns such as microplastics, pathogens, etc.

## Dates of Travel

From: 11/15/2026 To: 11/19/2026 Total number of business days: 4

## Estimated Cost

Transportation \$ 700 Hotel Accommodations \$ 1000.00 Meals \$ 500

**TOTAL ESTIMATED COST** \$ 2200 **W/ REGISTRATION FEE** \$ 2985

Balance in the training budget prior to this trip \$ 3546

Unit Number 1030 Primary Number 401000 G/L Number 640210

**Comments** (i.e. spouse traveling, preferences): \_\_\_\_\_

## Approvals

Department Head Sabrina Figler Date 9/2/2026

Chief Operating Officer [Signature] Date 09/08/2026

Secretary [Signature] Date 09/08/2026

# TRAINING REQUEST

Date: 9/2/2026

| Employee Name        | Job Title          | Department    |
|----------------------|--------------------|---------------|
| Gabriella Holevinski | Analytical Chemist | Water Quality |
|                      |                    |               |
|                      |                    |               |
|                      |                    |               |
|                      |                    |               |

## Dates of Training

From: 11/15/2026 To: 11/19/2026 Total number of business days: 4

**Training requests which require overnight accommodations must be accompanied by a Travel Request form.**

## Training Information

Title of Course(s) NYSAWWA WQTC

Description The conference provides technological and resarch information on PFA, lead and copper, emerging contaminants, microplastics

Is this course needed to meet continuing education or contact hour requirements? no

How many credit hours will you receive? na

How many credits (per year) required for your license? na

How many credits do you have year-to-date? na

Are there 2 or more people attending this seminar? no

Are there concurrent sessions? yes

Why is there a need for 2 or more people to attend this seminar? \_\_\_\_\_

## Estimated Cost

Registration Fee \$ 785 Mileage & Tolls \$ 700

**TOTAL ESTIMATED COST** \$ 2985

Balance in the training budget prior to this trip \$ 3546

Unit Number 1030 Primary Number 401000 G/L Number 640210

## Approvals

Department Head Sabrina Figler Date 9/2/2026

Chief Operating Officer [Signature] Date 09/08/2026

Secretary [Signature] Date 09/08/2026



**Event Type:** Educational Sessions

**Event Track:** Looking to the Future: Innovations in the Water Industry

01:00 PM - 05:00 PM CST | Sun

[Add to Calendar](#)

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**OVERVIEW:** **Pre-Conference Workshops are an additional cost and require pre-registration.**

**This workshop is limited to 75 attendees.**

**PCW03 - Beyond the Excel Grind: Leveling up your data analysis.**

Modern data tools allow us to efficiently apply a range of analytical techniques, from foundational data wrangling to complex machine learning, allowing water professionals to get more value and insight from their data. This workshop offers a survey of modern data tools and what they enable, with hands-on practice for analyzing water data using both code-based and no-code approaches.

**PRESENTATIONS:**

## Monday, November 16, 2026

### OGS - Opening General Session

**Moderator(s):**

**Event Type:**

**Event Track:**

08:15 AM - 09:30 AM CST | Mon

[Add to Calendar](#)

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**OVERVIEW:**

**PRESENTATIONS:**

### PST01 - Monday Poster Session

**Moderator(s):**

**Event Type:**

**Event Track:** Poster Session

09:30 AM - 10:30 AM CST | Mon

[Add to Calendar](#)

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**OVERVIEW:**

**PRESENTATIONS:**

09:30 AM CST

**Enhancing Resiliency of Water Treatment Plants with Biological Treatment: Insights from AWWA's New MOP80**

**Speaker(s):** Jennifer Nyfennegger, Carollo Engineers, Inc.

09:30 AM CST

**Manganese Control with Direct Membrane Filtration vs Conventional CFS-Media Filtration**

09:30 AM CST

**A Systematic Review of Drinking Water Quality Under Prolonged Stagnation in Building Plumbing and Intervention Strategies**

**Speaker(s):** Aliya Ehde, Hazen and Sawyer

09:30 AM CST

**Cost and Feasibility Evaluation of Filter Adsorbers for PFAS Treatment**

**Speaker(s):** Esther Hughes, Hazen and Sawyer

09:30 AM CST

**Low Level PFAS Treatment Without the Big Cost – Evaluating Novel Alternative Adsorbents in Pretreatment**

**Speaker(s):** Katie Walker, Jacobs

09:30 AM CST

**Beyond DPR Water Quality : Evaluating Dynamic Cost Analysis of CBAT and RBAT with Two Case Studies**

**Speaker(s):** Wen Zhao, Carollo Engineers

09:30 AM CST

**On-Site PFAS Destruction in Groundwater via Photoactivated Reductive Defluorination**

**Speaker(s):** Tess Sobolewski, Enspired Solutions

09:30 AM CST

**Bridging PFAS Compliance Gaps: Pilot-Proven Treatment and Interim Full-Scale Operation**

**Speaker(s):** John Dyson, Aqua-Aerobic Systems, Inc.

09:30 AM CST

**Efficacy tests of chemical regeneration technologies for PFAS-spent solid media**

**Speaker(s):** Pinelopi Savvidou, Cranfield University

09:30 AM CST

**Novel Hybrid Surface Modified Clays Engineered for PFAS and Co-contaminate Treatment**

**Speaker(s):** Michael Donovan, CETCO

09:30 AM CST

**Beyond Dashboards: How Agentic AI is Transforming Operator Decision Support in Water Utilities**

**Speaker(s):** John Armin, Utilyst

09:30 AM CST

**Multi-Barrier Nutrient Control and Seasonal Monitoring for Source Water Protection in an Interconnected Urban Lake Chain**

**Speaker(s):** Nishant Narayanan, Lake Forest Academy

09:30 AM CST

**Enhancing Water Infrastructure Inspections: Shifting from Analog to Digital Through Innovative AI and Drone Technologies**

**Speaker(s):** Alexander Ciasca, CROM, LLC.

09:30 AM CST

**Cost Effective Glass Surface Modifications to Enhance Condensation in Solar Distillation of Produced Water**

09:30 AM CST

**Nature-Based Source-Water Protection and Treatment Synergies for Climate-Resilient Drinking Water Quality Systems**

## MON01 - Insights from Full Scale PFAS Treatment and Retrofitted Water Treatment Plants

Moderator(s): [Chris Moody](#)

Event Type: Educational Sessions

Event Track: PFAS

10:30 AM - 12:00 PM CST | Mon

[Add to Calendar](#)

**OVERVIEW:** This session focuses on different modes of utility PFAS treatment, from pilot scale and full scale to retrofitted plants

### PRESENTATIONS:

10:30 AM CST

#### PFAS Treatment Plants across the U.S.: Practical Lessons in Design, Cost, and Operations

Speaker(s): [Viraj deSilva](#), *Tetra Tech*

11:00 AM CST

#### Pilot Insights to Inform Utility Treatment Choices: GAC Performance in Filter Cap vs Deep Bed Configurations

Speaker(s): [Gulizhaer Abulikemu](#), *Greater Cincinnati Water Works*

11:30 AM CST

#### Utilizing Existing Infrastructure to meet PFAS Compliance: Can Biofilters Be Used to Remove PFAS?

Speaker(s): [Hunter Martin](#), *Newport News Waterworks Department*

## MON02 - Pipe Scale Interactions

Moderator(s): [Rebecca Slabaugh](#)

Event Type: Educational Sessions

Event Track: Lead, Copper, and Other Distribution System Issues

10:30 AM - 12:00 PM CST | Mon

[Add to Calendar](#)

### OVERVIEW:

### PRESENTATIONS:

10:30 AM CST

#### Managing Galvanic Solder Corrosion in Water Systems from Theory to Practice: A Case Study

Speaker(s): [Darren Lytle](#), *Hazen and Sawyer*

11:00 AM CST

#### Impact of CSMR on Corrosion of Old Copper Pipes with Lead Solder

Speaker(s): [Caroline Russell](#), *Carollo Engineers, Inc.*

11:30 AM CST

#### Impacts of Ozone/Advanced Oxidation on Distribution Pipe-Scales and Corrosion



Speaker(s): Richard Giani, CDM Smith

## MON03 -Opportunistic Pathogens in Premise Plumbing, Distribution Systems, and Source Waters

Moderator(s): Dienye Tolofari

Event Type: Educational Sessions

Event Track: Micro Focus

10:30 AM - 12:00 PM CST | Mon

[Add to Calendar](#)

**OVERVIEW:** Understanding the conditions affecting the survival and proliferation of opportunistic pathogens in drinking water systems is essential to devise effective treatment methods for control of these organisms. Several such factors, including residential activities, physicochemical and biogeochemical drivers influencing opportunistic pathogens, are discussed in this session.

### PRESENTATIONS:

10:30 AM CST

#### A Long-term Study of Microbial Water Quality Changes in Response to Residential Activities in a Model Home Plumbing System

Speaker(s): Hodon Ryu, United States Environmental Protection Agency

11:00 AM CST

#### A Machine Learning Approach to Elucidating Physicochemical Drivers of Opportunistic Pathogen Occurrence in Drinking Water Systems

Speaker(s): Juliana Marks, University of Illinois

11:30 AM CST

#### Biogeochemical Drivers of Naegleria Fowleri in Anthropogenically Impacted Hot Springs

Speaker(s): Brooke Stemple, Southern Nevada Water Authority

## MON04 - Improving Disinfectant Residuals: Utility Approaches and Regulatory Outlook for Upcoming MDBPR Revisions

Moderator(s): Vishakha Kaushik

Event Type: Educational Sessions

Event Track: Water Quality & Monitoring

10:30 AM - 12:00 PM CST | Mon

[Add to Calendar](#)

**OVERVIEW:** "Explore the upcoming MDBPR revisions, anticipated changes, and practical utility responses. Hear 4 concise case studies from the AWWA#108 project, plus presentations on Gwinnett County's tracer study, San Jose Water's integrated monitoring, and Legionella research. Conclude with a panel Q&A featuring utilities, researchers, and consultants."

### PRESENTATIONS:

10:30 AM CST

#### AWWA#108 Implementing a Numeric Minimum: Case Studies from Utilities

Speaker(s): Vishakha Kaushik, Arcadis U.S., Inc.

11:00 AM CST

11:00 AM CST

## Investigating Elevated DBPs in a Historically Compliant Distribution System

11:30 AM CST

## Integrated Monitoring: Stop Sampling Like the Rules are Independent

### MON05 - Contaminants of Emerging Concern Part 1

**Moderator(s):** [Phil Brandhuber](#)

**Event Type:** Educational Sessions

**Event Track:** Emerging Water Quality Issues

10:30 AM - 12:00 PM CST | Mon

[Add to Calendar](#)

#### OVERVIEW:

#### PRESENTATIONS:

10:30 AM CST

### Perchlorate: The New Kid on the Block - Occurrence, Regulations and Treatment Strategies

**Speaker(s):** [Dalton Stewart](#), HDR Engineering

11:00 AM CST

### Lithium Occurrence: What We Have Learned from UCMR5

**Speaker(s):** [Yongtao Li](#), Eurofins Drinking Water and Wastewater Central

11:30 AM CST

### Optimizing Full Scale Strong Cation Exchange for Lithium Removal

**Speaker(s):** [Craig Douglas](#), Brunswick & Topsham Water District

### MON06 - Super-Charging Treatment for PFAS Removal

**Moderator(s):** [Mark White](#)

**Event Type:** Educational Sessions

**Event Track:** Advances in Treatment

10:30 AM - 12:00 PM CST | Mon

[Add to Calendar](#)

**OVERVIEW:** This session includes several unique approaches to integrating PFAS treatment into a multi-contaminant treatment process train. Different approaches are required compared to single-contaminant ground water PFAS treatment systems.

#### PRESENTATIONS:

10:30 AM CST

### Algae, PFAS, and Corrosion Issues for Mountain Home AFB's New Surface Water Supply

**Speaker(s):** [Pierre Kwan](#), HDR Engineering, Inc.

11:00 AM CST

### Framework for Evaluating Powdered Activated Carbon as a Treatment Technology for PFOS and PFOA in Drinking Water

**Speaker(s):** [Ryan Kirkland](#), [Burns & McDonnell](#)

11:30 AM CST

### **Picking Up and Moving! Relocating a Water Reuse Pilot to Assess Treatability in Anne Arundel County, MD**

**Speaker(s):** [Christina Alito](#), [HDR Engineering, Inc.](#)

## **MON07 - Innovations in Water Reuse**

**Moderator(s):** [Zaid Chowdhury](#)

**Event Type:** Educational Sessions

**Event Track:** Looking to the Future: Innovations in the Water Industry

10:30 AM - 12:00 PM CST | Mon

[Add to Calendar](#)

### **OVERVIEW:**

### **PRESENTATIONS:**

10:30 AM CST

#### **Direct Potable Reuse of Blended Reclaimed Water, Rainwater, and Condensate: Water Quality Assessment and Treatment Considerations**

**Speaker(s):** [Keisuke Ikehata](#), [Texas State University](#)

11:00 AM CST

#### **Are Water Reuse Standards Needed at the Federal Level?**

**Speaker(s):** [Hunter Adams](#), [City of Wichita Falls](#)

11:30 AM CST

#### **Validation of a UV Reactor for High UV Dose and High UV Resistance Applications**

**Speaker(s):** [Brian Petri](#), [Trojan Technologies Group ULC](#)

## **MON08 - Influence of Feed Water Quality to PFAS Removal**

**Moderator(s):** [Samantha Smith](#)

**Event Type:** Educational Sessions

**Event Track:** PFAS

01:15 PM - 03:15 PM CST | Mon

[Add to Calendar](#)

**OVERVIEW:** This session delves into PFAS treatment challenges and limitations, specifically focusing on water quality issues

### **PRESENTATIONS:**

01:15 PM CST

#### **PFAS Removal From a Challenging Water by Ion Exchange, Activated Carbon, Surface-Modified Clay, and Electro-Coagulation**

**Speaker(s):** [Nicholas Dugan](#), [USEPA - OGWDW](#)

01:45 PM CST

#### **Impact of Flow Interruption and Changing Water Quality on PFAS Removal by Anion Exchange**

**Speaker(s):** [Levi Hauptert](#), [US EPA](#)

02:15 PM CST

### Treating Ultra-Short Chain PFAS: Bench and Column Evaluation of Anion Exchange Performance for Trifluoroacetic Acid (TFA)

**Speaker(s):** Amanda Berger, Arcadis U.S., Inc.

02:45 PM CST

### What's Limiting: TDS or PFAS? Strategic Treatment Planning for Brackish Groundwater Desalter.

**Speaker(s):** Suresh Sriram, Carollo Engineers

## MON09 - Integrating New Water Supplies to Existing Distribution Systems

**Moderator(s):** Sarah Richardson

**Event Type:** Educational Sessions

**Event Track:** Lead, Copper, and Other Distribution System Issues

01:15 PM - 03:15 PM CST | Mon

[Add to Calendar](#)

### OVERVIEW:

### PRESENTATIONS:

01:15 PM CST

#### Navigating a Water System Conversion from Hard Groundwater to Soft Surface Water

**Speaker(s):** Issam Najm, Hazen and Sawyer

01:45 PM CST

#### Totalizing Iron and Toxic Contaminant Release from a Legacy Cast Iron Pipe Loop with A Passive Composite Sampler: A One-year Study

**Speaker(s):** Leah Flint, Bureau of Reclamation

02:15 PM CST

#### Managing Lead Release During Introduction of Advanced Treated Water into Legacy Plumbing Systems

**Speaker(s):** Qi Yang, Washington University in St. Louis

02:45 PM CST

#### Collaborative Water Quality Monitoring & Communications: Hillsboro's Plan for Integrating the Willamette Water Supply System

**Speaker(s):** Alyssa MacDonald, City of Hillsboro (Oregon)

## MON10 - Microbial Water Quality Monitoring

**Moderator(s):** Rebecca Lahr

**Event Type:** Educational Sessions

**Event Track:** Micro Focus

01:15 PM - 03:15 PM CST | Mon

[Add to Calendar](#)

**OVERVIEW:** This session explores monitoring approaches used to determine microbial water quality throughout potable water systems. The value of molecular tools such as metabarcoding and metagenomic sequencing for microbial community profiling, and q-pcr based assays for cyanotoxin gene detection and quantification will be discussed. The application of unconventional methods like flow cytometry for

detection and quantification will be discussed. The application of unconventional methods like flow cytometry for disinfection confirmation will also be covered.

#### PRESENTATIONS:

02:45 PM CST

##### Beyond the Plate Count: Tracking VBNCs and True Inactivation by Flow Cytometry Across a Ct Range

**Speaker(s):** [Natchaya Luangphairin](#), *University of South Florida*

01:15 PM CST

##### Microbial Community Profiling to Advance Drinking Water Quality Monitoring: Insights from the Ofwat Tap Water Forensics Project

**Speaker(s):** [Gemma Hill](#), *Severn Trent*, [Karen Heaton](#)

01:45 PM CST

##### Molecular-to-Chemical Framework for Enhanced Cyanotoxin Monitoring in Remote Source Water Environments

**Speaker(s):** [Manely Rashedan](#), *Los Angeles Department of Water and Power*

02:15 PM CST

##### Microbes Thriving in Drinking Water Distribution Systems: A Metagenomic Portrait of the Microbial Community in Lead Service Lines

**Speaker(s):** [Vicente Gomez-Alvarez](#), *USEPA Office of Water*

## MON11 - Disinfection By-Products

**Moderator(s):** [Alice Fulmer](#)

**Event Type:** Educational Sessions

**Event Track:** Water Quality & Monitoring

01:15 PM - 03:15 PM CST | Mon

[Add to Calendar](#)

#### OVERVIEW:

#### PRESENTATIONS:

01:15 PM CST

##### ICR 2.0: Defining the National Dataset Needed for Future MDBP Regulation

**Speaker(s):** [Teal Bullick](#), *University of Colorado, Boulder*

01:45 PM CST

##### Walking the Tightrope: Balancing Chlorine Residuals and Disinfection Byproducts in a Large Complex Water System

02:15 PM CST

##### Pre-oxidation Effectively Decreases NDMA Formation in Full-scale Chloraminated US Drinking Water Distribution Systems

**Speaker(s):** [Maya Adeltgren](#), *University of Minnesota Twin Cities*

02:45 PM CST

##### One Source Water, Six Utilities: Variability in OPs and DBPs

**Speaker(s):** [Mitchel Ghantous](#), *University of Massachusetts Amherst*

## MON12 - Impacts of Wildfire on Water Quality

MON12 - Impacts of Wildfire on Water Quality

**Moderator(s):** [Kenan Ozekin](#)  
**Event Type:** Educational Sessions  
**Event Track:** Emerging Water Quality Issues  
01:15 PM - 03:15 PM CST | Mon

[Add to Calendar](#)

**OVERVIEW:**

**PRESENTATIONS:**

01:15 PM CST

**Wildfire Effects on DBP Formation and Treatability in Post-Fire Watersheds: Insights from Spatial and Temporal Sampling**

**Speaker(s):** [Kyle Shimabuku](#), *Gonzaga University Library*

01:45 PM CST

**Treatability of Wildfire-Impacted Dissolved Organic Matter by PAC and Coagulation: A Comparison of East & West Cascades**

**Speaker(s):** [Samanthi Wijerathna](#), *Montana State University Bozeman*

02:15 PM CST

**Responding to Wildfires-a Lab's Perspective**

**Speaker(s):** [Houri Mandjikian](#), *Los Angeles Water & Power*

02:45 PM CST

**Predicting Uptake and Release of VOCs and SVOCs Detected After Wildland Urban Interface Fires from Plastic Drinking Water Pipes**

**Speaker(s):** [Corrado Masciocchi](#), *Gonzaga University*

**MON13 - Advances in Coagulation and DBP Control**

**Moderator(s):** [David Pernitsky](#)  
**Event Type:** Educational Sessions  
**Event Track:** Advances in Treatment  
01:15 PM - 03:15 PM CST | Mon

[Add to Calendar](#)

**OVERVIEW:** With potential changes to the MDBP rules, there is a renewed interest in coagulation and DBP control. This session looks at proper application of coagulant chemistry for NOM removal and online instrumentation for DBP monitoring.

**PRESENTATIONS:**

01:15 PM CST

**Optimizing Coagulation: Smarter Coagulant Choices for Water Treatment Efficiency**

**Speaker(s):** [Suresh Sriram](#), *Carollo Engineers*

01:45 PM CST

**The Transition Plan to Effectively Switch Coagulants: Long-Term Jar Testing Evaluation Collaboration**

**Speaker(s):** [Bilal Abada](#), *CDM Smith Inc*

02:15 PM CST

**Central Alabama Water's Success with Real-time THM Monitoring for Long-term DBP Control**

## Control

**Speaker(s):** Richard Bacon, Aqua Metrology Systems Limited

02:45 PM CST

### Assessing Carbon Dioxide Injection for pH Suppression and Coagulant Control at Pilot Scale for Possible Full-scale Implementation

**Speaker(s):** Melanie Vines, Central Alabama Water

## MON14 - Leveraging Data Analytics of Water Quality Monitoring and Treatment

**Moderator(s):** Zaid Chowdhury

**Event Type:** Educational Sessions

**Event Track:** Looking to the Future: Innovations in the Water Industry

01:15 PM - 03:15 PM CST | Mon

[Add to Calendar](#)

### OVERVIEW:

### PRESENTATIONS:

01:15 PM CST

#### Forecasting Transboundary Water Quality and Security Using Deep Learning: A Remote Sensing-based Approach for the Great Lakes

**Speaker(s):** Shadman Sakib Sayem, Arcadis

01:45 PM CST

#### Continuous Source Water Monitoring Networks for Early Detection of Nutrient and Water Quality Changes in Drinking Water Systems

**Speaker(s):** Aditi Padhye, KETOS Inc.

02:15 PM CST

#### Preventing Boil Water Advisories Through Pump Intelligence: AI/ML Predictive Maintenance Results from DC Water

**Speaker(s):** John Armin, Utilyst

02:45 PM CST

#### H2NOW Chicago: A Testbed for Water Quality Sensor Innovation

**Speaker(s):** Melissa Pierce, Current

## PST02 - Monday Afternoon Poster Session

**Moderator(s):**

**Event Type:** Educational Sessions

**Event Track:** Poster Session

03:15 PM - 04:15 PM CST | Mon

[Add to Calendar](#)

### OVERVIEW:

### PRESENTATIONS:

03:15 PM CST

#### Surface Complexation Modeling of Lead (Pb) onto New and Aged Polyethylene

Surface Complexation Modeling of Lead (Pb) onto Iron and Nickel Polyoxymethylene Surfaces: Implications for Plastic Drinking Water Pipes

Speaker(s): Shiva Zolfaghari, University of Missouri

03:15 PM CST

Adsorbable organic fluorine and targeted PFAS in aqueous and biosolid samples throughout an advanced wastewater treatment plant.

Speaker(s): Sarah Ortbal, University of Alabama

03:15 PM CST

Detection of PFAS in Aqueous Systems Using a Coated Optical Fiber Platform coupled with IR Spectroscopy

Speaker(s): Johan Dominguez Lopez, University of North Dakota

03:15 PM CST

Developing an Analytical Framework to Evaluate THMs and HAAs in Activated Carbon Point-of-Use Filters

Speaker(s): Farin Dhara, University of South Florida

03:15 PM CST

Impact of Biofilm Growth on Granular Activated Carbon Filtration Performance Under Varying EBCT & Media Type: A Pilot-Scale Study

Speaker(s): Ahmed Salah Al Din, The University of Toledo

03:15 PM CST

Understanding the Interplay of Sulfate and Ferric Salts in Drinking Water Coagulation

Speaker(s): Afaq Ahmad, NJIT

03:15 PM CST

Investigating the Role of Packaging Materials on Microplastics Occurrence in Drinking Water

Speaker(s): Tashfiqul Islam, Civil and Environmental Engineering University of Missouri, Columbia

03:15 PM CST

Long-Term Performance Monitoring of Electrocoagulation: Correlating Current Density, Electrode Wear, and Coagulant Dose

Speaker(s): Monica Castro Carias, University of South Florida

03:15 PM CST

Inexpensive Online Analyzer for the On-site Monitoring of Total Trihalomethanes

Speaker(s): Daniel O'Malley, University of Memphis

03:15 PM CST

Determination of Lead (II) ion in drinking water by using flow injection analysis with chemiluminescence detection

Speaker(s): Shivani Patel, University of Memphis

03:15 PM CST

Trifluoroacetic acid and other ultrashort-chain PFAS in North Carolina drinking water sources: Spatial distribution and potential

Speaker(s): Yue Hu, North Carolina State University

03:15 PM CST

Assessing Per- and Polyfluoroalkyl Substances (PFASs) from Biosolid and Composts Solids Across Tennessee

Speaker(s): Saathvik Gorti, University of Tennessee, Knoxville

03:15 PM CST



03:15 PM CST

### Efficacy of Nanotrap Particles for Collection of Drinking Water Microbiomes and Legionella Pneumophila

**Speaker(s):** Daniel Ceglie, Virginia Tech

03:15 PM CST

### PFAS Monitoring in the Gulf Coast of Alabama and Mississippi

**Speaker(s):** Briton Tebbey, Univeristy of Alabama

03:15 PM CST

### Rapid and Cost-Effective Electrochemical MIP/NiO-SPCE Sensor for Geosmin Detection in Drinking Water

**Speaker(s):** Lance-Nicolas Rances, University of Central Florida

03:15 PM CST

### From Surface Reactivity to Removal Performance: An Integrated Framework for Evaluating Activated Carbon in Water Pollution Control

**Speaker(s):** Farin Dhara, University of South Florida

03:15 PM CST

### Mechanistic Study on the PFAS Adsorption Behavior and Synergistic Effects of Mixing Biomass-based Activated Carbon

**Speaker(s):** Jaeyoung Choi, University of Seoul

## Tuesday, November 17, 2026

### TUE01 - Trifluoroacetic Acid (TFA) and Ultrashort-Chain PFAS: Occurrence, Exposure, and Treatment

**Moderator(s):** Donald Ryan

**Event Type:** Educational Sessions

**Event Track:** PFAS

08:30 AM - 10:00 AM CST | Tue

[Add to Calendar](#)

**OVERVIEW:** "TFA is frequently detected at concentrations several orders of magnitude greater than PFOA and PFOS. Recent studies highlight that TFA and other ultra-short chain PFAS are becoming the dominant PFAs measured in human blood. Attendees will benefit from this session which includes the occurrence and treatment options for these PFAS, especially as regulatory attention and public concern increase."

#### PRESENTATIONS:

09:00 AM CST

#### Trifluoroacetic Acid: What to Know About this Ultrashort-chain PFAS

**Speaker(s):** Detlef Knappe

09:30 AM CST

#### Human Exposure Routes for Trifluoroacetic Acid and Biomarkers of Exposure

**Speaker(s):** Lan Cheng

10:30 AM CST

#### TFA in Alabama: Results from Comprehensive Sampling of Alabama Surface Waters

**Speaker(s):** Sarah Ortbal, University of Alabama

### TUE02 - Meeting LCRI Requirements

**Moderator(s):** [Simoni Triantafyllidou](#)

**Event Type:** Educational Sessions

**Event Track:** Lead, Copper, and Other Distribution System Issues

08:30 AM - 10:00 AM CST | Tue

[Add to Calendar](#)

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**OVERVIEW:** This session discusses noteworthy requirements of the lead and copper rule improvement (LCRI), such as lead sampling, validation studies for LSL inventories, and GRR testing and how to meet these requirements

**PRESENTATIONS:**

08:30 AM CST

**Revisiting Sampling for Lead Service Line Identification: Could It Be a Silver Bullet?**

**Speaker(s):** [Darren Lytle](#), *Hazen and Sawyer*

09:00 AM CST

**Understanding the LCRI Validation Study for Service Line Inventories**

**Speaker(s):** [Joanna Cummings](#), *CDM Smith*

09:30 AM CST

**Solving the LCRI's GRR Dilemma: Ways to Demonstrate that a Galvanized Service Line was Never Downstream of a Lead Service Line**

**Speaker(s):** [Kristin Epstein](#), *CDM Smith*

## TUE03 - Cyanobacteria and Cyanotoxin Detection Methods

**Moderator(s):** [Tracy Kump](#)

**Event Type:** Educational Sessions

**Event Track:** Micro Focus

08:30 AM - 10:00 AM CST | Tue

[Add to Calendar](#)

---

**OVERVIEW:** This session will focus on the methods employed for detection and monitoring of cyanobacteria and cyanotoxins. Method standardization, comparisons, limitations, and utility applications will be discussed.

**PRESENTATIONS:**

08:30 AM CST

**Standard Methods Update for Cyanobacteria and Their Metabolites**

**Speaker(s):** [Polly Barrowman](#), *Yokogawa Fluid Imaging Technologies, Inc.*, [Hunter Adams](#), *City of Wichita Falls*

09:00 AM CST

**Standard Method 10120. Detecting Cyanobacteria & Toxin Production with qPCR: Example of a Utility for Early Detection & Treatment**

**Speaker(s):** [Greg Ford](#), *Phytoxigene*

09:30 AM CST

**Evaluating Lateral Flow Assays for Detecting Cyanotoxins in SPATT Extracts**

**Speaker(s):** [Erin Stelzer](#), *US Geological Survey*

## Manage Risks and Navigate Lingering Uncertainties

**Moderator(s):**

**Event Type:** Educational Sessions

**Event Track:** Water Quality & Monitoring

08:30 AM - 10:00 AM CST | Tue

[Add to Calendar](#)

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**OVERVIEW:** EPA plans to revise the Microbial/Disinfection Byproduct (M/DBP) Rules by 2027. The rules involve complex tradeoffs between pathogen and chemical risks, with major uncertainty in health benefits, compliance costs, and utility responses. Emerging DBPs and opportunistic pathogens challenge current strategies, highlighting data gaps for informed, cost effective revisions.

### PRESENTATIONS:

08:30 AM CST

**The Unique Complexity of M/DBP Rulemaking Past and Present**

**Speaker(s):** Chad Seidel

09:00 AM CST

**Characterizing and Navigating Risk- Risk Tradeoffs for Emerging Pathogens and DBPs**

09:30 AM CST

**Revisiting DBP Treatment and Compliance Strategies Given Formation Trends and Toxicity Associated with Emerging DBPs**

**Speaker(s):** Caroline Russell, Carollo Engineers, Inc.

## TUE05 - Online Sensor Implementation and Validation from the Utility and Vendor Perspective

**Moderator(s):** Adam Eyring

**Event Type:** Educational Sessions

**Event Track:** Emerging Water Quality Issues

08:30 AM - 10:00 AM CST | Tue

[Add to Calendar](#)

---

**OVERVIEW:** A multi-expert panel explores how online sensors are developed and validated by utilities and vendors. The experts have a wide range of experiences with sensors, including developing them, validating them, and putting them in routine use.

### PRESENTATIONS:

08:30 AM CST

**Overcoming Challenges of Continuous Water Process Monitoring with Simultaneous Fluorescence and Absorbance**

09:00 AM CST

**Translating Analytical Instrumentation Research and Development into Reliable Products**

09:30 AM CST

**Translating Analytical Instrumentation Research and Development into Reliable Products**

## TUE06 - Advances in Filtration

**Moderator(s):** [Eva Deemer](#)

**Event Type:** Educational Sessions

**Event Track:** Advances in Treatment

08:30 AM - 10:00 AM CST | Tue

[Add to Calendar](#)

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**OVERVIEW:** This session covers what's new in granular media filtration, including pathogen removal for high-rate filters, biofilters, manganese adsorption media, and enhancing filtration with upstream ozonation.

### PRESENTATIONS:

08:30 AM CST

#### Full-Scale Demonstration of Giardia and Cryptosporidium Removal Credit with High-Rate Mono-Media Filtration

**Speaker(s):** [Michelle De Haan](#), *Park City Municipal Corporation*

09:00 AM CST

#### Is it Time? How to Determine the Right Time for Replacing GAC Media in Biofilters

**Speaker(s):** [Ramola Vaidya](#), *HDR*

09:30 AM CST

#### Impacts of GAC Filtration Operational Strategy and Seasonality on Bioactivity, PFAS Removal, and DBP Precursor Control

**Speaker(s):** [Sarah Potgieter](#), *University of Michigan*

## TUE07 - Innovations in Lab, Bench, and Pilot Testing

**Moderator(s):** [Brock Emerson](#)

**Event Type:** Educational Sessions

**Event Track:** Looking to the Future: Innovations in the Water Industry

08:30 AM - 10:00 AM CST | Tue

[Add to Calendar](#)

### OVERVIEW:

### PRESENTATIONS:

08:30 AM CST

#### Overview on Standard Methods activities, the 25th Edition and Beyond

**Speaker(s):** [William Lipps](#), *Shimadzu Scientific Inc.*

09:00 AM CST

#### Optimization of Powdered Activated Carbon Treatment for PFAS and T&O in Source Waters of the City of Durham, NC

**Speaker(s):** [Mamatha Hopanna](#), *HDR*

09:30 AM CST

#### Seasonal Transformation of Natural Organic Matter Across Drinking Water Treatment

**Speaker(s):** [Anmol Parajuli](#), *UMass Amherst*

Moderator(s):

Event Type: Educational Sessions

Event Track: Poster Session

09:45 AM - 10:45 AM CST | Tue

Add to Calendar

OVERVIEW:

PRESENTATIONS:

09:45 AM CST

Determining reactor velocity gradient distribution for flocculator design

Speaker(s): William Pennock, New Jersey Institute of Technology

09:45 AM CST

UV-Emitting Glass for Marine Antifouling: Long-Term Field Performance and Biofilm Community Dynamics

Speaker(s): Leila Alidokht, University of Massachusetts Amherst

09:45 AM CST

Field Diagnostic and Operational Recovery of Acute Dissolved Oxygen Collapse in a Small Surface Water System

Speaker(s): Nishant Narayanan, Lake Forest Academy

09:45 AM CST

Influence of Dispersed Oil Type and Concentration on Passive Solar Distillation of Synthetic Produced Water

09:45 AM CST

Long-Term Evaluation of PFAS Removal by Granular Activated Carbon Using Rapid Small-Scale Column Tests Under Variable Water Matrix

Speaker(s): Dana Awad, De Nora Water Technologies

09:45 AM CST

Occurrence of Pharmaceutical Micropollutants in Water: Selective Removal Using Novel Materials

Speaker(s): Azeez Balogun, Central Michigan University

09:45 AM CST

UV Wavelength in UV/chlorine Oxidation: Same Oxidant, Divergent Transformation Product Pathways

Speaker(s): Irene Carra, Cranfield University

09:45 AM CST

Ion-Induced Nitrification Inhibition (IC50) & Biofilm Process Validation in Semiconductor Wastewater

Speaker(s): sungjun bae, Samsung Electronics

09:45 AM CST

Which GAC Properties Result in the Least Risk of Gas-phase PFAS Release During Regeneration?

Speaker(s): Plabon Islam Turzo, University of Nevada, Reno

09:45 AM CST

Predictive GAC Selection for PFAS Removal Based on Measurable Material Properties.

**Speaker(s):** [Dana Awad](#), *De Nora Water Technologies*

09:45 AM CST

**Training Tomorrow's Water Leaders by Expanding STEM Education and Engagement to Middle School Students**

**Speaker(s):** [Julia Kendall](#), *The University of Alabama*

09:45 AM CST

**Efficacy of Expired IDEXX Colilert Media in E. Coli and Coliform Detection: a Laboratory Assessment**

**Speaker(s):** [Sarah Ortbal](#), *University of Alabama*

09:45 AM CST

**Enhancing Treatment Reliability and Water Security Through Off River Storage Integration at the Konongo Water Treatment Plant**

**Speaker(s):** [Mawunyo Kwami Kofiloto](#), *Ghana Water Limited*

09:45 AM CST

**Optimizing Corrosion Control: Bench-Scale Testing of Blended Phosphates in Drinking Water**

**Speaker(s):** [Maryam Talebidalouei](#), *New Jersey Institute of Technology*

09:45 AM CST

**Ferrate, Activated Ferrate, and Ozone for NOM/EfOM Pre-Oxidation in Potable Reuse and Drinking Water Treatment**

**Speaker(s):** [Joseph Goodwill](#), *University of Rhode Island*

## TUE14 - Case Studies in WTP Optimization

**Moderator(s):** [Brock Emerson](#)

**Event Type:** Educational Sessions

**Event Track:** Looking to the Future: Innovations in the Water Industry

10:00 AM - 12:00 PM CST | Tue

[Add to Calendar](#)

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### OVERVIEW:

### PRESENTATIONS:

10:00 AM CST

**How to Prepare your Water Quality Laboratory for the Next 20 Years of Demand Growth and Regulatory Change**

**Speaker(s):** [Kevin Chriswell](#), *Cannon Design*

10:30 AM CST

**Pilot Plant Tracer Study Experiment to Evaluate Hydraulic Performance Improvements in a Conventional Treatment Process**

**Speaker(s):** [Dienye Tolofari](#), *Great Lakes Water Authority*

11:30 AM CST

**Investigating Factors Influencing the Removal of Microplastics from Synthetic Stormwater through Flotation Processes, Implications**

**Speaker(s):** [Md. Jamiun Noor Shadman](#), *University of Missouri*

## TUE08 - Trifluoroacetic Acid (TFA) and Ultrashort-Chain PFAS: Occurrence, Exposure, and Treatment Continued

**Moderator(s):**

**Event Type:** Educational Sessions

**Event Track:** PFAS

10:30 AM - 12:00 PM CST | Tue

[Add to Calendar](#)

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### OVERVIEW:

### PRESENTATIONS:

10:30 AM CST

#### Removal of Short and Ultrashort Chain PFAS by Reverse Osmosis and Nanofiltration and Hybrid Treatment Systems

**Speaker(s):** Chris Belona

11:00 AM CST

#### Treating Ultra-Short Chain PFAS: Bench and Column Evaluation of Anion Exchange Performance for Trifluoroacetic Acid (TFA)

**Speaker(s):** Amanda Berger, Arcadis U.S., Inc.

11:30 AM CST

#### The CFPUA Experience: Ultrashort-chain PFAS Treatment by Full-scale GAC and Operational Considerations

**Speaker(s):** Benjamin Kearns

## TUE09 - Tools Toward LCRI Compliance

**Moderator(s):** Ian Robinson, Simoni Triantafyllidou

**Event Type:** Educational Sessions

**Event Track:** Lead, Copper, and Other Distribution System Issues

10:30 AM - 12:00 PM CST | Tue

[Add to Calendar](#)

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**OVERVIEW:** This session focuses on various tools and methods that can help with LCRI compliance. Discussions will delve into physical lead identification tools, as well as LCRI compliance assistance and optimization programs

### PRESENTATIONS:

10:30 AM CST

#### What's Inside the Pipe? Unlocking Lead Answers with Handheld X-Ray Fluorescence

**Speaker(s):** Trevor McProud, CDM Smith

11:00 AM CST

#### Small System Success Stories: How Ohio EPA helped over 100 systems through its Service Line Inventory Assistance Program

**Speaker(s):** Brian Wopershall, Arcadis/Ohio EPA

11:30 AM CST

#### Optimizing Lead Service Line Replacement Under LCRI: A Multi-Objective Decision Analytics Approach for SRF-Ready Planning

**Speaker(s):** Jaime Prieto, Hammond Water Works

## TUE10 - Proactive Monitoring of Harmful Algal Blooms: Integrating Hyperspectral Imaging and Analytical Benchmarking

**Moderator(s):** [Christiane Hoppe-Jones](#)

**Event Type:** Educational Sessions

**Event Track:** Micro Focus

10:30 AM - 12:00 PM CST | Tue

[Add to Calendar](#)

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**OVERVIEW:** This session will discuss the findings of Water Research Foundation (WRF) project #5266 (Determining the Role of Spectral Imaging as an Early Warning System for Presence/Significance of Algal Blooms). We will introduce hyperspectral satellite, drone and microscopy data and integrate it with in situ data to show new pathways for proactive HAB monitoring for water utilities.

### PRESENTATIONS:

10:30 AM CST

#### [Determining the Role of Spectral Imaging as an Early Warning System for the Significance of Algal](#)

**Speaker(s):** [Christiane Hoppe-Jones](#), *American Water Works Service Co.*

11:00 AM CST

#### [Introducing a Novel Fused Satellite Data Set for HAB Monitoring in Lakes and Reservoirs](#)

11:30 AM CST

#### [We Will Introduce a Fused Data Set Based on Landsat and Sentinel Satellites that Achieves a 10-m Spatial Resolution and 3-4 day te](#)

## TUE11 - M/DBP Rule Revisions Forum: Integrating Science and Practice to Manage Risks and Navigate Lingering Uncertainties Continued

**Moderator(s):**

**Event Type:** Educational Sessions

**Event Track:** Water Quality & Monitoring

10:30 AM - 12:00 PM CST | Tue

[Add to Calendar](#)

---

**OVERVIEW:** EPA plans to revise the Microbial/Disinfection Byproduct (M/DBP) Rules by 2027. The rules involve complex tradeoffs between pathogen and chemical risks, with major uncertainty in health benefits, compliance costs, and utility responses. Emerging DBPs and opportunistic pathogens challenge current strategies, highlighting data gaps for informed, cost effective revisions.

### PRESENTATIONS:

10:30 AM CST

#### [Re\)Evaluating the Costs and Benefits of Enhanced TOC Removal Requirements](#)

**Speaker(s):** [Eric Peterson](#), *Hazen and Sawyer*

11:00 AM CST

#### [Gaps and Opportunities for Data-Informed M/DBP Decision Making](#)

**Speaker(s):** [Sheldon Masters](#)



## TUE12 - Online Sensor Implementation and Validation from the Utility and Vendor Perspective Continued

**Moderator(s):**

**Event Type:** Educational Sessions

**Event Track:** Emerging Water Quality Issues

10:30 AM - 12:00 PM CST | Tue

[Add to Calendar](#)

---

**OVERVIEW:** A multi-expert panel explores how online sensors are developed and validated by utilities and vendors. The experts have a wide range of experiences with sensors, including developing them, validating them, and putting them in routine use.

### PRESENTATIONS:

10:30 AM CST

**Translating Analytical Instrumentation Research and Development into Reliable Products**

11:00 AM CST

**Translating Analytical Instrumentation Research and Development into Reliable Products**

11:30 AM CST

**Deploying Next - Generation Sensors for Water and Wastewater Monitoring**

## TUE13 - Advances in Filtration Continued

**Moderator(s):** [Eva Deemer](#)

**Event Type:** Educational Sessions

**Event Track:** Advances in Treatment

10:30 AM - 12:00 PM CST | Tue

[Add to Calendar](#)

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**OVERVIEW:** This session covers what's new in granular media filtration, including pathogen removal for high-rate filters, biofilters, manganese adsorption media, and enhancing filtration with upstream ozonation.

### PRESENTATIONS:

10:30 AM CST

**Indirect Electrochemical Regeneration of Manganese Oxide – Coated Media: A Novel Approach to Greensand Filtration**

**Speaker(s):** [Joseph Goodwill](#), *University of Rhode Island*

11:00 AM CST

**Concurrent Optimization of Biofiltration and Manganese Removal in a Surface Water Application**

**Speaker(s):** [Samuel Brodfuehrer](#), *HDR*

11:30 AM CST

**Enhancing Filtration with Ozonation: Pilot Results from Houston's 360 MGD East Water Purification Enhancement Project**

**Speaker(s):** [Xi Zhao](#), *Carollo Engineers*

## TUE15 - Destruction of PFAs in Media and Aquatic

**Moderator(s):**

**Event Type:** Educational Sessions

**Event Track:** PFAS

01:30 PM - 03:00 PM CST | Tue

[Add to Calendar](#)

**OVERVIEW:** This session presents a host of PFAS destruction technologies ranging from Vacuum UV and UV to non thermal plasma. The session also details various treatment scenarios in which destruction may be implemented

### PRESENTATIONS:

01:30 PM CST

#### Full-scale Evaluation of Destruction of PFAS-laden IX Resin by Supercritical Water Oxidation (SCWO)

**Speaker(s):** Yue (Sophie) Sun, Orange County Water District

02:00 PM CST

#### Scale-Up of Vacuum UV for PFAS Treatment – Overcoming Technical Obstacles to Commercial Application

**Speaker(s):** Katherine Bell, Hazen and Sawyer

02:30 PM CST

#### Rapid Continuous PFAS Destruction in Drinking Water Using 185-nm UV: Pilot-Scale Evaluation at the Orange County Water District

**Speaker(s):** Xuejun Yu, Water Illumination Inc

03:30 PM CST

#### Non-Thermal Plasma for In Situ Destruction of PFAS During Regeneration of Granular Activated Carbon

**Speaker(s):** Claire Butler, Yale University

04:00 PM CST

#### Targeting PFAS Hotspots: Pilot Evaluation of a Combined Separation and Destruction Treatment Train

**Speaker(s):** Christian Kassar, Black & Veatch

04:30 PM CST

#### Effective PFAS Degradation in Aquatic Systems: Performance Evaluation and Mechanistic Drivers of Peroxydisulfate

**Speaker(s):** Md Abdullah Al Masud, University of Alabama

## TUE16 - LCRI FAQs - A Water System's Guide to the LCRI

**Moderator(s):** Jonathan Cuppett

**Event Type:** Educational Sessions

**Event Track:** Lead, Copper, and Other Distribution System Issues

01:30 PM - 03:00 PM CST | Tue

[Add to Calendar](#)

**OVERVIEW:** Water systems will need to start complying with the LCRI on 11/1/27. The LCRI contains a variety of new elements and many modifications to existing LCR requirements. This session will provide a brief

overview or major LCRI themes and then discuss answers to high priority LCRI questions through a panel discussion of industry and utility expert

**PRESENTATIONS:**

01:30 PM CST

**Preparing for the LCRI**

**Speaker(s):** Jonathan Cuppett, 120water

02:00 PM CST

**Panel Discussion**

**Speaker(s):** Stephen Estes-Smargiassi, Massachusetts Water Resources Authority, Sandra Kutzing, CDM Smith, Julie Herzner, New York City Department of Environmental Protection, Hannah Rockwell, Arcadis

## TUE17 - Exploring Non-cyanobacterial Production of Taste and Odor in Drinking Source Waters

**Moderator(s):** Norma Ruecker

**Event Type:** Educational Sessions

**Event Track:** Micro Focus

01:30 PM - 03:00 PM CST | Tue

[Add to Calendar](#)

**OVERVIEW:** The focus of this special topic session is to highlight some of the current research aimed to better identify the contributions of the non-cyanobacterial species to taste and odor events and to increase the current level of understanding that actinomyces play in contributing taste and odor to drinking water sources.

**PRESENTATIONS:**

01:30 PM CST

**Expanding Molecular Detection of Taste and Odor Compound Producers Beyond Cyanobacteria**

**Speaker(s):** Katelyn McKindles

02:00 PM CST

**Molecular Detection of Geosmin-Producing Bacteria in Drinking Water Sources**

**Speaker(s):** Patrick Hanington

02:30 PM CST

**Rethinking Taste and Odour Events: Expanding Focus Beyond Cyanobacteria to Actinomycetes**

**Speaker(s):** Sathya Ganegoda

## TUE18 - Small System Issues

**Moderator(s):** Sarah Page

**Event Type:** Educational Sessions

**Event Track:** Water Quality & Monitoring

01:30 PM - 03:00 PM CST | Tue

[Add to Calendar](#)

**OVERVIEW:**

**PRESENTATIONS:**

01:30 PM CST

### Guidance for Practical and Affordable Manganese Treatment for Small Drinking Water Systems

**Speaker(s):** Benjamin Swaringen, Cornwell Engineering Group

02:00 PM CST

### Bridging the Gap: Empowering Small Water Systems to Tackle Emerging Contaminants Regulations

**Speaker(s):** Morgan DiCarlo, Arcadis

02:30 PM CST

### Small Systems, Big Impact: Evaluating Water Quality and Corrosion Control in Charles County

**Speaker(s):** Baljit Sidhu, Hazen and Sawyer

## TUE19 - Microplastics

**Moderator(s):** Brent Alspach

**Event Type:** Educational Sessions

**Event Track:** Emerging Water Quality Issues

01:30 PM - 03:00 PM CST | Tue

[Add to Calendar](#)

#### OVERVIEW:

#### PRESENTATIONS:

01:30 PM CST

### Microplastics in Drinking Water Distribution Systems (WRF 5338)

**Speaker(s):** Michael McKie, CIMA+

02:00 PM CST

### Clearing the Water: Insights into Micro- and Nano-Plastic Removal from 95 Drinking Water Treatment Plants

**Speaker(s):** Nicholas Rogers, CDM Smith, Rasha Maal-Bared, CDM Smith

02:30 PM CST

### Beyond the Physical: Toxic Chemicals within Drinking Water Microplastics

**Speaker(s):** Husein Almuhtaram, University of Toronto

## TUE20 - Advances in Reuse Part A

**Moderator(s):**

**Event Type:** Educational Sessions

**Event Track:** Advances in Treatment

01:30 PM - 03:00 PM CST | Tue

[Add to Calendar](#)

**OVERVIEW:** This reuse session includes important discussions of how to determine appropriate treatment requirements for reuse plants, how to assign appropriate log removal values for MBRs, VOC removal in reuse plants, mitigating high TOC concentrations with Ion Exchange, and brine disposal.

#### PRESENTATIONS:

01:30 PM CST

### Establishing a Risk-Based Equivalency Approach to the California Direct Potable Reuse Alternatives Clause

**Speaker(s):** Nick Lowe, Hazen and Sawyer

02:00 PM CST

### Giving Credit Where Credit is Due: Data Analysis Techniques for Determining LRVs for MBRs

**Speaker(s):** Emily Clements, Carollo Engineers, Inc

02:30 PM CST

### Mitigation of Volatile Organic Compound Peaking Events in Potable Reuse Systems Using Ozone with Biologically Active Carbon

**Speaker(s):** Kari Norris, Southern Nevada Water Authority

04:30 PM CST

### Full-scale Carbon-Based Advanced Treatment: Startup at HRSD's James River SWIFT Facility

**Speaker(s):** Mack Pearce, HRSD

## TUE21 - Data Centers vs Water Utilities: The Fight for Potable Water Amid Population Growth

**Moderator(s):** Charles Bott

**Event Type:** Educational Sessions

**Event Track:** Looking to the Future: Innovations in the Water Industry

01:30 PM - 03:00 PM CST | Tue

[Add to Calendar](#)

**OVERVIEW:** A three expert panel explores the rapid growth of AI data centres, the legal and regulatory challenges utilities face in serving them and how rising cooling demands create new opportunities for sustainable water reuse.

#### PRESENTATIONS:

01:30 PM CST

#### Understanding the Current and Future Needs of AI Data Centers

**Speaker(s):** Matthew Pine

02:00 PM CST

#### How a Water Utility can Spur Economic Growth

**Speaker(s):** John Norton, Great Lakes Water Authority

02:30 PM CST

#### Water Reuse as an Opportunity for Sustainable AI Growth

**Speaker(s):** Guillaume Claret

## TUE23 - Sampling for LCRI and Beyond

**Moderator(s):** Christina Devine

**Event Type:** Educational Sessions

**Event Track:** Lead, Copper, and Other Distribution System Issues

03:30 PM - 05:00 PM CST | Tue

[Add to Calendar](#)

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**OVERVIEW:**

**PRESENTATIONS:**

03:30 PM CST

**Demonstration of Residential Point-of-Use (POU) Filters as Composite Samplers for Lead in Chicago**

**Speaker(s):** Zehua Wang, WashU

04:00 PM CST

**New York Silicate Corrosion Control Treatment Program**

**Speaker(s):** Natasha Niola, Liberty Utilities

04:30 PM CST

**Findings from Pilot Programs Following LCRI School and Child Care Sampling Requirements**

**Speaker(s):** Kathleen Powers, TruePani Inc.

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## TUE24 - 50 Years of Legionella: Lessons Learned and Research Advances for the Water Community

**Moderator(s):** Grace Jang

**Event Type:** Educational Sessions

**Event Track:** Micro Focus

03:30 PM - 05:00 PM CST | Tue

[Add to Calendar](#)

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**OVERVIEW:** 2026 marks the 50th anniversary of the discovery of Legionella, which remains the leading cause of reported waterborne disease outbreaks in the US. This session will bring together researchers, public health professionals, and water utility professionals to reflect on five decades of advances in prevention, control, and treatment, and to examine case studies relevant to the water community

**PRESENTATIONS:**

03:30 PM CST

**Legionnaires' Disease – Fifty Years and Counting**

**Speaker(s):** Mark LeChevallier, Dr. Water Consulting, LLC

04:00 PM CST

**CDC Legionella Outbreak Response and Consultations – Environmental Factors and Case Studies**

04:30 PM CST

**Mitigation of a Legionnaires' Disease Outbreak in a Groundwater-supplied Community Water System with Chloramines**

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## TUE25 - Source Water Quality

**Moderator(s):**

**Event Type:** Educational Sessions

**Event Track:** Water Quality & Monitoring

03:30 PM - 05:00 PM CST | Tue

[Add to Calendar](#)

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**OVERVIEW:**

**PRESENTATIONS:**

03:30 PM CST

**Occurrence and Hydrological Drivers of a Highly Mobile Chlorothalonil Transformation Product in Drinking Water Springs of a Tropic**

**Speaker(s):** Jose Gonzalez Rodriguez, *Technological Institute of Costa Rica*

04:00 PM CST

**Microcystin-LR Occurrence and Covariation with Water Quality Across a Freshwater–Estuarine Gradient**

**Speaker(s):** Sunday Sam Egon, *University of Central Florida*

04:30 PM CST

**Risk Forecasting for Algal Blooms at a Shallow Drinking Water Intake**

**Speaker(s):** Anastasia Gkousioudi, *Southern Nevada Water Authority*

## TUE26 - Microplastics Continued

**Moderator(s):** Brent Alspach

**Event Type:** Educational Sessions

**Event Track:** Emerging Water Quality Issues

03:30 PM - 05:00 PM CST | Tue

[Add to Calendar](#)

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**OVERVIEW:**

**PRESENTATIONS:**

03:30 PM CST

**Quantification of Microplastics in Tap Water Using Py-GC/MS and Design of a Point-of-Use Treatment Device for Their Removal**

**Speaker(s):** Maryam Salehi, *University of Memphis Libraries*

04:30 PM CST

**Charting Priority Research Needs for Microplastics in Drinking Water**

**Speaker(s):** Brent Alspach, *Arcadis U.S., Inc.*

04:00 PM CST

**A Mechanistic Investigation of Micro- and Nanoplastic (MNPs) Transport Within New and Biofilm-laden Potable Water Plumbing Pipes**

**Speaker(s):** Atif Bashir, *Missouri Section*

## TUE27 - Advances in Reuse Part B

**Moderator(s):**

**Event Type:** Educational Sessions

**Event Track:** Advances in Treatment

03:30 PM - 05:00 PM CST | Tue

[Add to Calendar](#)

**OVERVIEW:** This reuse session includes important discussions of how to determine appropriate treatment requirements for reuse plants, how to assign appropriate log removal values for MBRs, VOC removal in reuse plants, mitigating high TOC concentrations with Ion Exchange, and brine disposal.

**PRESENTATIONS:**

03:30 PM CST

**Suspended Ion Exchange with Softening for Salinity and Organic Carbon Management in Potable Reuse Scenarios**

**Speaker(s):** Kari Norris, Southern Nevada Water Authority

04:00 PM CST

**Novel Reverse Osmosis Concentrate Mining for Beneficial Mineral and Water Recovery**

**Speaker(s):** Grace Scarim, U.S. Bureau of Reclamation CO - Denver

## TUE28 - Looking forward to 2050: Building Resiliency into the Water Sector

**Moderator(s):** Katherine Alfredo

**Event Type:** Educational Sessions

**Event Track:** Looking to the Future: Innovations in the Water Industry

03:30 PM - 05:00 PM CST | Tue

[Add to Calendar](#)

**OVERVIEW:**

**PRESENTATIONS:**

03:30 PM CST

**Best Practices for Water Sector Infrastructure Response in the First 24 Hours After Major Disasters**

**Speaker(s):** Jonathan Reeves, Arcadis U.S., Inc.

04:00 PM CST

**Cold Region Infiltration Gallery Design**

**Speaker(s):** Mikkel Foltmar, HDR Engineering

04:30 PM CST

**Collating and Analyzing Resilience Measurements to Develop Tools that Support Resilient Utilities and Improve Risk Mitigation**

**Speaker(s):** Isabella Cobble, University of Colorado Boulder

## Wednesday, November 18, 2026

### WED01 - PFAS Treatment Media and Regeneration

**Moderator(s):** Alice Fulmer

**Event Type:** Educational Sessions

**Event Track:** PFAS

08:30 AM - 10:00 AM CST | Wed

[Add to Calendar](#)



**OVERVIEW:** This session details the nuances of PFAS media regeneration. Presentations in this session will discuss comparative analyses of regenerated vs. virgin media, emerging absorbent media for PFAS treatment, and methods to sustainably reuse PFAS treatment media

**PRESENTATIONS:**

08:30 AM CST

**GAC/IX, Reactivated GAC or Virgin Carbon – Evaluating Operational and Cost Benefits**

**Speaker(s):** Christiane Hoppe-Jones, American Water Works Service Co.

09:00 AM CST

**Innovation to Implementation: Laboratory and Field Scales Evaluation of a New ANSI-61 Certified Regenerable PFAS Adsorbent**

**Speaker(s):** Fuhar Dixit, University of Tennessee Knoxville

09:30 AM CST

**Sustainable Reuse of PFAS-Contaminated Media Following Electro-Regeneration**

**Speaker(s):** Mohamed Ali, University of North Dakota

**WED02 - Comparison of CCT Pipe Rig Study Data to Compliance Data: Keys to Interpretation and Decision Making - Part A**

**Moderator(s):** Melinda Friedman

**Event Type:** Educational Sessions

**Event Track:** Lead, Copper, and Other Distribution System Issues

08:30 AM - 12:00 PM CST | Wed

[Add to Calendar](#)

**OVERVIEW:** Optimized CCT and pipe rig studies are required under the LCRI. WRF 5299: Assessment of CCT Pipe Rig Study Data Compared to Distribution System Lead Levels evaluates discrepancies between pipe rig studies and full-scale CCT outcomes to support more informed CCT decision-making. This session will highlight findings, tools, and guidance using data from 10 water systems.

**PRESENTATIONS:**

08:30 AM CST

**Introduction to Study Approach and Analyses**

**Speaker(s):** Melinda Friedman, Confluence Engineering Group, LLC

09:00 AM CST

**Comparison of Pipe Rig Lead Data vs. Full-Scale Lead Data**

**Speaker(s):** Rebecca Slabaugh

09:30 AM CST

**Comparison of Pipe Rig Water Quality Parameter Data vs. Full-Scale Data**

**Speaker(s):** Caroline Russell, Carollo Engineers, Inc.

**WED03 - Cryptosporidium Risk Management - Its Not Just a History Lesson.**

**Moderator(s):** Norma Ruecker

**Event Type:** Educational Sessions

**Event Track:** Micro Focus

08:30 AM - 12:00 PM CST | Wed

[Add to Calendar](#)

**OVERVIEW:** The purpose of this session is to revisit the focus area of Cryptosporidium in a dedicated session to remind water professionals that Cryptosporidium risk management must remain a priority as outbreaks of cryptosporidiosis from drinking water still occur. This session will highlight some current and ongoing utility-driven monitoring and research programs.

**PRESENTATIONS:**

08:30 AM CST

**Lest We Forget: Cryptosporidium, Yesterday and Today**

**Speaker(s):** [Patsy Root](#)

09:00 AM CST

**Past, Present, and Future of Cryptosporidium Monitoring in Milwaukee**

**Speaker(s):** [Michelle Natarajan](#)

09:30 AM CST

**Cryptosporidium Monitoring in Portland's Source Water**

**Speaker(s):** [Ann Levy](#)

## WED04 - The Treacherous Triangle of Taste and Odor, Manganese, and Biostability

**Moderator(s):** [Adam Feffer](#)

**Event Type:** Educational Sessions

**Event Track:** Water Quality & Monitoring

08:30 AM - 10:00 AM CST | Wed

[Add to Calendar](#)

**OVERVIEW:** This session addresses the cascade of cause and effect that can be unleashed by changing water treatment processes to improve handling of taste and odor without fully considering ramifications to manganese control and biostability. This session will include presentations and one panel discussion of 30 minutes each.

**PRESENTATIONS:**

08:30 AM CST

**Water Source and Purification Superintendent**

09:00 AM CST

**Oxidizing Your Problems: The Risks and Benefits of Attacking Organic Carbon**

09:30 AM CST

**The Dark Art of Drinking Water Manganese Removal**

## WED05 - Contaminants of Emerging Concern Part 2

**Moderator(s):** [Katherine Alfredo](#)

**Event Type:** Educational Sessions

**Event Track:** Emerging Water Quality Issues

08:30 AM - 10:00 AM CST | Wed

[Add to Calendar](#)

**OVERVIEW:**

#### PRESENTATIONS:

08:30 AM CST

##### Novel Treatment Approaches for Lithium in Drinking Water

**Speaker(s):** Madeline Carine, Southern Nevada Water Authority

09:00 AM CST

##### Navigating Concerns of Heavy Metals Leaching in GAC Startup Waste

**Speaker(s):** Seth Donaldson, Hazen and Sawyer

09:30 AM CST

##### Key Elements for Building Treatment Evaluation Frameworks for Emerging Contaminants

**Speaker(s):** Amanda Canida, Black & Veatch Corporation

## WED06 - Membrane Fouling and Operation

**Moderator(s):** Nicholas Rogers

**Event Type:** Educational Sessions

**Event Track:** Advances in Treatment

08:30 AM - 10:00 AM CST | Wed

[Add to Calendar](#)

**OVERVIEW:** This session includes papers that look in detail at biological and physical/chemical fouling modes in MF/UF membranes and solutions to RO concentrate management.

#### PRESENTATIONS:

08:30 AM CST

##### Monitoring Membrane Bioreactor Fouling Associated with Changes in Process Biology

**Speaker(s):** Shannon Maceiko, MWDSC, Raymond Tsai, LACSD

09:00 AM CST

##### Using Zeta Potential to Control MF/UF fouling: Theory and Practice

**Speaker(s):** David Pernitsky, Jacobs

09:30 AM CST

##### Addressing RO Concentrate Management Challenges in Inland Systems Using RO for PFAS and 1,4-Dioxane Removal

**Speaker(s):** Mamatha Hopanna, HDR

## WED07 - Innovations in Disinfection

**Moderator(s):** Baris Kaymak

**Event Type:** Educational Sessions

**Event Track:** Looking to the Future: Innovations in the Water Industry

08:30 AM - 10:00 AM CST | Wed

[Add to Calendar](#)

#### OVERVIEW:

#### PRESENTATIONS:

08:30 AM CST

### Comparing LED UV and Conventional UV Disinfection Reactors: Narratives versus Data

**Speaker(s):** [Po-Shun Chan](#), Trojan Technologies Group ULC

09:00 AM CST

### Choosing Robust Probes for Measuring Hydroxyl Radical Scavenging Capacity in UV/H<sub>2</sub>O<sub>2</sub>

**Speaker(s):** [Zhijie Nie](#), Univ. of Toronto - Civil Engr.

09:30 AM CST

### Beyond the Lamp: Assessing the Transition from Mercury-Vapor to UV-C LED in Full-Scale Water Disinfection

**Speaker(s):** [Oliver Lawal](#), AquiSense Inc

## WED08 - Analytical Methods for PFAS Testing

**Moderator(s):** [Woo Hyoung Lee](#)

**Event Type:** Educational Sessions

**Event Track:** PFAS

10:30 AM - 03:00 PM CST | Wed

[Add to Calendar](#)

**OVERVIEW:** This session investigates traditional and emerging PFAS analytical methods and tools. Methods discussed in this session will include contaminant co-occurrence analyses, QA/QC, and chemical and electrochemical detection techniques

#### PRESENTATIONS:

10:30 AM CST

#### Investigating Co-occurrence of Emerging Ultrashort Chain and Legacy PFAS in Potable Water

**Speaker(s):** [Yongtao Li](#), Eurofins Drinking Water and Wastewater Central, [Tashfiqul Islam](#), Civil and Environmental Engineering University of Missouri, Columbia

11:00 AM CST

#### Development of a Microfluidic Electrochemical Oxidation Cell for the Destruction and Analysis of PFAS in Water

**Speaker(s):** [Ibrahim Abusallout](#), Fraunhofer USA - Michigan State University

11:30 AM CST

#### Cataloging PFAS Analytical Interferences: A Public Database and QA/QC Tool for Reducing False Positives in Compliance Monitoring

**Speaker(s):** [Alma Beciragic](#), Arcadis, [Kevin Toth](#)

## WED09 - Comparison of CCT Pipe Rig Study Data to Compliance Data: Keys to Interpretation and Decision Making - Part B

**Moderator(s):** [Melinda Friedman](#)

**Event Type:** Educational Sessions

**Event Track:**

10:30 AM - 12:00 PM CST | Wed

[Add to Calendar](#)

**OVERVIEW:** Optimized CCT and pipe rig studies are required under the LCRI. WRF 5299: Assessment of CCT Pipe Rig Study Data Compared to Distribution System Lead Levels evaluates discrepancies between pipe rig studies and full-scale CCT outcomes to support more informed CCT decision-making. This session will highlight findings, tools, and guidance using data from 10 water systems.

**PRESENTATIONS:**

11:00 AM CST

**Overview of Guidance Tools**

**Speaker(s):** Pierre Kwan, HDR Engineering, Inc.

11:30 AM CST

**Panel Discussion**

**Speaker(s):** Melinda Friedman, Confluence Engineering Group, LLC

10:30 AM CST

**Findings and Discrepancy Factors**

**Speaker(s):** David Cornwell

## WED10 - Cryptosporidium Risk Management – Its Not Just a History Lesson Continued

**Moderator(s):** Norma Ruecker

**Event Type:** Educational Sessions

**Event Track:** Micro Focus

10:30 AM - 12:00 PM CST | Wed

[Add to Calendar](#)

**OVERVIEW:** The purpose of this session is to revisit the focus area of Cryptosporidium in a dedicated session to remind water professionals that Cryptosporidium risk management must remain a priority as outbreaks of cryptosporidiosis from drinking water still occur. This session will highlight some current and ongoing utility-driven monitoring and research programs.

**PRESENTATIONS:**

10:30 AM CST

**The Implementation of a Novel Regulatory Approach for Determining the Log Reduction by Treatment for Giardia and Cryptosporidium**

**Speaker(s):** Bryanne Rempel

11:00 AM CST

**Understanding Urban Watershed Fecal Pollution Sources Using a Rapid Cryptosporidium Genotyping Tool**

**Speaker(s):** Abigail Michaud

11:30 AM CST

**They're Back - Potable Reuse Requires a New Focus on Cryptosporidium and Giardia**

**Speaker(s):** George Di Giovanni, Metropolitan Water District of Southern California

## WED11 - The Treacherous Triangle of Taste and Odor, Manganese, and Biostability Continued

**Moderator(s):** Adam Feffer

**Event Type:** Educational Sessions

**Event Track:**

10:30 AM - 12:00 PM CST | Wed

10:30 AM - 12:00 PM CST | Wed

[Add to Calendar](#)

**OVERVIEW:** This session addresses the cascade of cause and effect that can be unleashed by changing water treatment processes to improve handling of taste and odor without fully considering ramifications to manganese control and biostability. This session will include presentations and one panel discussion of 30 minutes each.

**PRESENTATIONS:**

10:30 AM CST

[Distribution System Impacts of Assimilable Organic Carbon Increases](#)

11:00 AM CST

[Panel Discussion](#)

## WED12 - Managing Residual Streams

**Moderator(s):** [Catherine Hughes Keenan](#)

**Event Type:** Educational Sessions

**Event Track:** Emerging Water Quality Issues

10:30 AM - 12:00 PM CST | Wed

[Add to Calendar](#)

**OVERVIEW:**

**PRESENTATIONS:**

10:30 AM CST

[Beyond PFAS Removal: Understanding and Managing Residual Streams from GAC Treatment Systems in Surface Water Treatment Plants](#)

**Speaker(s):** [Amalia Terracciano](#), [CDM Smith](#)

11:00 AM CST

[Examining the Fate of PFAS During the Incineration of Treatment Residuals](#)

11:30 AM CST

[Characteristics of Waste Residuals from Forty-Eight Arsenic Removal Drinking Water Treatment Plants in the US](#)

**Speaker(s):** [Asher Keithley](#), [Hazen and Sawyer](#)

## WED13 - Advances in Machine Learning and AI

**Moderator(s):** [Sierra Johnson](#)

**Event Type:** Educational Sessions

**Event Track:** Advances in Treatment

10:30 AM - 11:00 AM CST | Wed

[Add to Calendar](#)

**OVERVIEW:** This session highlights work being done in the areas of Machine Learning, Artificial Intelligence, and linking these two emerging areas with plant control systems.

**PRESENTATIONS:**

10:30 AM CST

### When Machine Learning Isn't the Answer: Practical Optimization of Reverse Osmosis Operations

**Speaker(s):** YOKO KOYAMA, Carollo Engineers, Inc.

11:00 AM CST

### Reuse Case Studies for Applying Machine Learning to Monitoring, Design, and Control

**Speaker(s):** Kyle Thompson, Carollo Engineers, Inc.

11:30 AM CST

### Artificial Intelligence from SCADA and OT: What Water Utilities Need to Be Ready

**Speaker(s):** Robert Ivanovic, CDM Engineers

## WED14 - Case Studies in WTP Optimization

**Moderator(s):** Silvana Ghiu

**Event Type:** Educational Sessions

**Event Track:** Looking to the Future: Innovations in the Water Industry

10:30 AM - 12:00 PM CST | Wed

[Add to Calendar](#)

#### OVERVIEW:

#### PRESENTATIONS:

10:30 AM CST

### Optimizing Miami-Dade's 214.7 MGD Lime Softening Facility

**Speaker(s):** Samantha Black, HDR Engineering, Inc.

11:00 AM CST

### Settled Water Savviness: Pretreatment Optimization at Thornton, Colorado's High Efficiency Biofiltration Plant

**Speaker(s):** Rachel Himyak, City of Thornton

11:30 AM CST

### From Chemical Reaction Kinetics to Full-Scale Performance: Case Studies on Chemical Mixing and Injection Strategy in WTPs

**Speaker(s):** Qigang Chang, AE2S

## WED15 - Analytical Methods for PFAS Testing

**Moderator(s):** Alice Fulmer

**Event Type:** Educational Sessions

**Event Track:** PFAS

01:30 PM - 03:00 PM CST | Wed

[Add to Calendar](#)

**OVERVIEW:** This session investigates traditional and emerging PFAS analytical methods and tools. Methods discussed in this session will include contaminant co-occurrence analyses, QA/QC, and chemical and electrochemical detection techniques

#### PRESENTATIONS:

01:30 AM CST

**Application of Multiple Chemical Analytical Techniques for Forensic Analysis of PFASs to Identify Their Origin**

**Speaker(s):** [Ian Ross](#), [CDM Smith](#)

02:00 PM CST

**Low-Cost Electrochemical MIP/NiO/SPCE Sensors for Rapid Field Monitoring of PFOS, PFOA, and PFBS in Water Systems**

**Speaker(s):** [Samuel Adjei-Nimoh](#), [University of Central Florida](#)

02:30 PM CST

**PFAS Removal with Ground Anion Exchange Resin: Evaluation of Particle Grinding Impact and RSSCT Implications**

**Speaker(s):** [Esther Hughes](#), [Hazen and Sawyer](#)

## WED16 - CCT Case Studies

**Moderator(s):** [Colin White](#)

**Event Type:** Educational Sessions

**Event Track:** Lead, Copper, and Other Distribution System Issues

01:30 PM - 03:00 PM CST | Wed

[Add to Calendar](#)

### OVERVIEW:

### PRESENTATIONS:

01:30 PM CST

**Rim-to-River Reliability: Evaluating Water Treatment from Source to Distribution at Grand Canyon National Park**

**Speaker(s):** [Allyssa Brauer](#), [HDR Engineering, Inc.](#)

02:00 PM CST

**From Blended Phosphate to Orthophosphate: System-Wide Research Findings from the City of Chicago's Successful Transition**

**Speaker(s):** [Jennifer Liggett](#), [Jacobs](#)

02:30 PM CST

**Joint Corrosion Control Treatment for Blended Water Systems: Lessons from the Rochester–Monroe County Water Authority Pipe Loops**

**Speaker(s):** [Alexandria Hackford](#), [Ramboll Americas Engineering Solutions](#)

## WED17 - Microbial Control and Disinfection

**Moderator(s):** [Bina Nayak](#)

**Event Type:** Educational Sessions

**Event Track:** Micro Focus

01:30 PM - 03:00 PM CST | Wed

[Add to Calendar](#)

**OVERVIEW:** This session explores control and disinfection measures employed to combat nuisance organisms like golden mussels in source waters, biofilms in drinking water storage systems, and opportunistic pathogens like nontuberculous mycobacteria in finished water.



#### PRESENTATIONS:

01:30 PM CST

**Alternatives to Chlorine for Golden Mussel Yeliger Settlement Control and Adult Infestation Remediation in Water Intakes**

**Speaker(s):** Mounir AYADI, *University of Toronto*

02:00 PM CST

**Antimicrobial Blue Light (aBL) Can Enhance Water Disinfection and Prevent Biofilms in Drinking Water Storage Systems**

**Speaker(s):** Melanie Gamboa, *CU Boulder*

02:30 PM CST

**Examining the Effect of UV Disinfection on Nontuberculous Mycobacteria (NTM) in a Full-Scale Drinking Water Treatment System**

**Speaker(s):** Soojung Lee, *University of Michigan*

### WED18 - Sensors, Real-Time Monitoring, and Modeling

**Moderator(s):** Nicole Holloway

**Event Type:** Educational Sessions

**Event Track:** Water Quality & Monitoring

01:30 PM - 05:00 PM CST | Wed

Add to Calendar

#### OVERVIEW:

#### PRESENTATIONS:

01:30 PM CST

**Navigating Regulatory Approval: Online Strontium Monitoring for High Pathogen Removal LRV Crediting in RO Systems**

**Speaker(s):** Troy Pittenger, *SailBri Cooper Inc.*

02:00 PM CST

**Long-term Deployment of a High-Frequency Optical Sensor to Measure DOM Characteristics in a Raw Water Supply**

**Speaker(s):** Kristina Bonnet, *Montana State University*

02:30 PM CST

**Detecting Harmful Algal Blooms in Drinking Water Treatment Plants: A Machine Learning Ensemble Approach**

**Speaker(s):** Mennatallah Alnahas, *University of Toronto*

03:30 PM CST

**Near Real-Time Quantitation of Chloramines, Chloronitramide, and Nitrite**

**Speaker(s):** Julian Fairey, *University of Arkansas*

04:00 PM CST

**Easy On-Ramps to Water Quality Modeling: Pathways for Enhancing Distribution System Models Beyond Just Hydraulics**

**Speaker(s):** Ben Chenevey, *Arcadis U.S., Inc.*

04:30 PM CST

**A Lead Soft Sensor for Early Detection of Filter Failure**

**Speaker(s):** Abena Sabuh, *University of Michigan*

## WED19 - Impacts of Wastewater Effluent

**Moderator(s):** Sheldon Masters

**Event Type:** Educational Sessions

**Event Track:** Emerging Water Quality Issues

01:30 PM - 03:00 PM CST | Wed

[Add to Calendar](#)

**OVERVIEW:** This session explores the downstream impact of wastewater and treated effluent on treatment processes and environmental matrices. Topics discussed include the application of a geospatial tool to quantify wastewater effluent input into environmental waters, the membrane fouling potential of treated effluent, and methods for assessing antibiotic resistance in wastewater samples.

### PRESENTATIONS:

01:30 PM CST

#### ReSource Tracker: An Open-Source, Environmental Justice-Focused Approach to Tracking Treated Wastewater Effluent in Streams

**Speaker(s):** Kylie Boenisch-Oakes, University of Colorado, Boulder

02:30 PM CST

#### Rapid Quantification of Antibiotic Resistant Escherichia coli in Wastewater Samples Using Modified Culture-based Methods

**Speaker(s):** R. Stephen Brown, Queen's University

## WED20 - Advances in UV Disinfection and AOP

**Moderator(s):** Partiban Raja

**Event Type:** Educational Sessions

**Event Track:** Advances in Treatment

01:30 PM - 03:00 PM CST | Wed

[Add to Calendar](#)

**OVERVIEW:** Papers in this session provide insights into modeling UV-AOP kinetics and investigating inactivation with new UV technologies

### PRESENTATIONS:

01:30 PM CST

#### Comparative Inactivation and Mechanistic Analysis of Far-UVC (222 nm), LP UV, and UV-LEDs for Waterborne Pathogens

**Speaker(s):** Yoontaek Oh, Pegasus Technical Services, Inc.

02:00 PM CST

#### Cracking the Black Box: Open-Source Chemical Kinetics Modeling for UV Advanced Oxidation

**Speaker(s):** YOKO KOYAMA, Carollo Engineers, Inc.

02:30 PM CST

#### Structural and Molecular Responses of P. aeruginosa Biofilms Under Constant UV Stress

**Speaker(s):** Madison Ferrebee, University of Colorado

## WED21 - Reuse Microbiology: LRVs, Data Centers and More

**Moderator(s):** [Patsy Root](#)

**Event Type:** Educational Sessions

**Event Track:** Looking to the Future: Innovations in the Water Industry

01:30 PM - 03:00 PM CST | Wed

[Add to Calendar](#)

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**OVERVIEW:** This session examines the microbiology and associated risks of fit-for-purpose treated wastewater. Presentations include the potential risk of Legionella in reclaimed water used for data center cooling, the efficacy of carbon-based processes in reduction/ removal of antibiotic resistance genes, and the study of viral surrogates in reuse systems.

### PRESENTATIONS:

01:30 PM CST

#### [Analysis of State Regulations for Use of Reclaimed Water in Direct Evaporative Cooling Systems](#)

**Speaker(s):** [Mark LeChevallier](#), *Dr. Water Consulting, LLC*

02:00 PM CST

#### [Impact of Carbon-Based Advanced Water Treatment on Antimicrobial Resistance in Water Reuse Applications](#)

**Speaker(s):** [Matthew Blair](#)

02:30 PM CST

#### [Virus Surrogates throughout a Full-scale Advanced Water Reuse System in Singapore](#)

**Speaker(s):** [Bradley Schmitz](#), *WSSC Water*

## WED22 - Piloting and Modeling for PFAS Treatment Selection

**Moderator(s):** [Alice Fulmer](#)

**Event Type:** Educational Sessions

**Event Track:** PFAS

03:30 PM - 05:00 PM CST | Wed

[Add to Calendar](#)

### OVERVIEW:

### PRESENTATIONS:

03:30 PM CST

#### [Developing an Interactive Process Simulator for Rapid Evaluation of PFAS Treatment Alternatives](#)

**Speaker(s):** [Caitlin Glover](#), *Stantec Consulting Services, Inc.*

04:00 PM CST

#### [Adsorptive Removal of PFAS from Aqueous Solutions Using GAC, PAC and Ball-Milled Colloidal Activated Carbon: Characterizing Efficiency](#)

**Speaker(s):** [Md Abdullah Al Masud](#), *University of Alabama*

04:30 PM CST

#### [From Treatment to Disposal: Evaluating PFAS Release from Spent GAC During Backwash and Landfill Leaching](#)

**Speaker(s):** [Benjamin Swarinnen](#), *Cornwell Engineering Group*

## WED23 - Orthophosphate Decisions

**Moderator(s):** [Simoni Triantafyllidou](#)

**Event Type:** Educational Sessions

**Event Track:** Lead, Copper, and Other Distribution System Issues

03:30 PM - 05:00 PM CST | Wed

[Add to Calendar](#)

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### OVERVIEW:

### PRESENTATIONS:

03:30 PM CST

**Maintaining Stable System Scale, Water Quality & Compliance While Evaluating Reduced Orthophosphate Use & Other Chemistry Changes**

**Speaker(s):** [Alexander Mofidi](#), Confluence Engineering Group

04:00 PM CST

**Orthophosphate In, Orthophosphate Out: Evaluating Corrosion Control Dynamics in Erie County Water Authority's Pipe Loop Study**

**Speaker(s):** [Victoria Nystrom](#), Hazen and Sawyer

04:30 PM CST

**Evaluating Strategies for Transitioning Away from Orthophosphate Corrosion Control Treatment**

**Speaker(s):** [Quinn Hiatt](#), University of Colorado Boulder

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## Thursday, November 19, 2026

### Q26T1 - Sheahan Pumping Station Facility Tour

**Moderator(s):**

**Event Type:**

**Event Track:**

07:00 AM - 12:00 PM CST | Thu | Peabody Hotel

[Add to Calendar](#)

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### OVERVIEW: Pre-Registration Required

The James Sheahan Pumping Station, owned by Memphis Light, Gas, and Water, is Memphis' second oldest pumping station. It pulls water from the Memphis Sands Aquifer. The water is treated via aeration and filtration before it is distributed to Memphis' residents. The pumping station has a capacity of 35 million gallons per day (MGD).

Bus departing at 7:30 AM. The shuttle will pick up and drop off at the Peabody Hotel.

### PRESENTATIONS: