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March 28, 2024

OESAC CEU Committee
PO Box 577
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Dear members of the CEU Committee:

Please consider this request for your approval of the American Water Works Association (AWWA) Winter 2024 Webcasts for 0.9 CEU's.

DATE	AWWA Winter 2024 Webcasts	CEU's: 0.9
11/30/23	Unlocking Your Plant's Potential: Optimized Quality, Reporting, & Operations	0.1
12/6/23	2023 Regulatory Update	0.1
12/12/23	Sustainable Infrastructure, Resilient Water Supplies: Digital Solutions for Water Loss	0.1
1/24/24	Preparing for the Lead and Copper Rule Improvements	0.1
2/7/24	AI/ML Applications and Implementations in the Water Sector	0.1
2/21/24	Looking Ahead to Compliance with Round 2 of AWIA: Updating Risk and Resilience Assessments and Emergency Response Plans	0.1
2/22/24	Achieving Net Zero 2050: A Practical Approach to Decarbonization	0.1
3/13/24	From the Trenches: System Experiences Developing Service Line Inventories	0.1
3/27/24	Communicating about Lead: Real-World Utility Examples	0.1

Thank you in advance for your consideration.

Respectfully,

Brooke Gardner
Portland Water Bureau
brooke.e.gardner@portlandoregon.gov

Enclosures:

1. Letter of request to review
2. AWWA Webcast Summaries and Speaker Bios

AWWA Webinar Program: Unlocking Your Plant's Potential: Optimized Quality, Reporting, & Operations
November 30, 2023

Webcast Description

Overview:

This webinar will help you discover new ways to turn your everyday data into your greatest advantage. From sensors and bench sheets to SCADA and LIMS, learn how to tap into your data's full potential. You'll uncover opportunities for optimizing chemical dosage, asset maintenance, remote operations, regulatory reporting, energy consumption, and more.

Water data experts from Hach and Aquatic Informatics will join wastewater pretreatment provider Renewable Water Resources to discuss ReWa's adoption of digital solutions that leverage historical data. Hear how ReWa has streamlined and automated log workflows, reduced human errors, and empowered remote operations across eight facilities.

Learning Objectives:

1. Ensure consistency and reliability in your plant's critical processes such as coagulation, pump run-time, and chemical feed.
2. Identify opportunities for efficiency at every step of your daily processes.
3. Discover trends and insights by integrating infrastructure, dosing, SCADA, and LIMS into a single centralized database.

Presenter Biography Information

Moderated by Bryan Sharpnack, Senior Technical Account Manager, Aquatic Informatics

Dave Rutowski, Process Optimization Advisor, Hach

Tony Jones, Business Analyst, Non-Profit WW Treatment & Collections Services, Renewable Water Resources "ReWa"

AWWA Webinar Program: 2023 Regulatory Update
December 6, 2023

Webcast Description

Overview:

As 2023 comes to a close, this annual AWWA webinar will summarize the latest regulatory and legislative developments and requirements in the water sector. Numerous new and changing regulatory requirements are accruing for public water

systems. U.S. EPA just released the Microbial and Disinfection Byproducts Rule Revisions Working Group report. EPA will be releasing the Lead and Copper Rule Improvements proposal shortly. These developments are in addition to the Per- and Polyfluoroalkyl Substance drinking water standard proposed earlier this spring.

Learning Objectives:

1. Allow water utility managers assess how future regulatory developments will likely affect them.
2. Allow water utility staff to plan ahead to engage EPA, states, and their own communities to move forward in interim period before new regulatory requirements take effect.

Presenter Biography Information:

Moderated by Steve Via, Director Federal Relations, AWWA

Caroline Russell, Principal Technologist, Carollo Engineers

Steve Estes-Smargiassi, Director of Planning and Sustainability, Massachusetts Water Resources Authority

Stephanie Schlea, Senior Water Policy Advisor, Association of State Drinking Water Administrators

Deirdre Finn, Executive Director, Council of Infrastructure Financing Authorities

AWWA Webinar Program: Sustainable Infrastructure, Resilient Water Supplies: Digital Solutions for Water Loss

December 12, 2023

Webcast Description

Overview:

Utilities are under increasing pressure to reduce non-revenue water. Aging infrastructure, shrinking water supplies, new regulations, and growing public concerns are causing utilities to rethink their water loss strategy. A comprehensive approach to reducing both real and apparent losses can conserve water, save money, and protect your pipelines. Water providers that properly implement a holistic NRW strategy have realized transformative outcomes that, in some cases, are nearly equivalent to finding a new water source. These benefits can extend beyond the distribution network. With the right approach, utilities can avoid large infrastructure capacity upgrades to their water treatment plants and other water production facilities. This webinar will explore ways utilities can future-proof their infrastructure with digital solutions and services ranging from analytics, optimization, and real-time decision support to advanced metering infrastructure and distributed sensor networks to pipeline inspections to minimize water

loss and maximize revenue. You'll hear from utilities who have leveraged data to effectively manage non-revenue water across their network.

Learn how digital technology can help you:

1. Simplify decision-making, optimize operations, and improve operating results.
2. Remotely detect and prevent real and apparent losses.
3. Ensure customer water consumption is accurately measured and billed.
4. Manage pressure to prevent leaks and bursts.
5. Pinpoint leaks on critical transmission mains.
6. Apply water loss techniques such as in-line leak detection, digitalization, and metering to manage water loss across your system.
7. Manage water loss effectively through data and digital technologies.
8. Learn how water loss technologies have helped utilities detect and prevent real and apparent losses.

Presenter Biography Information:

Michele Samuels, Strategic Account Manager, Xylem

Eric Toffin, P.Eng. Global Product Manager of Metallic Pipeline Solutions, Xylem

Jess Bromley, Director of Sales, Key Accounts, NA Water, Xylem

Michele Samuels, Strategic Account Manager, Xylem

David Wallenstein, Associate Engineer, East Bay Municipal Utility District

**AWWA Webinar Program: Preparing for the Lead and Copper Rule Improvements
January 24, 2024**

Webcast Description

Overview:

In 2023, the EPA published modifications to the Lead and Copper Rule Revisions, known as the Lead and Copper Rule Improvements. There are some changes to the rule that drinking water utilities need to be aware of so they can begin preparing for the current initiation of the rule by October 2024. Utilities are already required to submit a service line inventory by October 2024. However, preparation will likely need to begin for lead service line replacement programs, lead and copper monitoring plans (as most utilities will be placed on routine monitoring) with a new tiering structure, and preparation for sampling schools just to mention a few.

This webinar will highlight some of the new changes in the rule revisions and focus on how utilities can begin addressing these changes before the rule goes into effect. This

webinar will also highlight a utility and outline what they are doing to prepare for the upcoming rule.

Learning Objectives:

1. Summarize the changes in the Lead and Copper Rule Improvements.
2. Outline major sections of the new Lead and Copper Rule Improvements that utilities need to begin preparing for.
3. Identify the tools, guidance, and approaches to preparing for the new rule changes; identify the use for each tool, guidance, and approach.
4. Analyze a utility's preparations for the new rule.

Presenter Biography Information

Moderated by Steve Via, Director of Federal Relations, AWWA

Steve Via is Director of Federal Relations for the American Water Works Association (AWWA) working in AWWA's Washington, D.C., office. Mr. Via's primary responsibilities are two-fold. First, working with the Environmental Protection Agency (EPA) and other federal agencies on the development of policy and regulations that affect the water sector, and communicating the basis and substance of federal policy and regulations to the water sector. Mr. Via has 31 years' professional experience in environmental regulatory compliance assistance related to federal and state drinking water, wastewater, and solid/hazardous waste regulations. His work experience includes supporting communities engaged in planning, financing, and managing infrastructure improvements.

Rebecca Slabaugh, Drinking Water Practice Lead, Arcadis

"LCRI Timeline and Inventory Requirements"

Ms. Slabaugh is a Vice President with Arcadis and serves as the Drinking Water Practice Lead for North America. She brings over 16 years of experience engineering innovative solutions to distribution system water quality challenges, including corrosion control and metals release. She is a member of the AWWA Lead and Copper Rule Technical Advisory Workgroup and the current chair of the AWWA Distribution System Water Quality Committee.

Sandra Kutzing, Lead and Copper Strategy Leader, CDM Smith

"LCRI Replacement Requirements"

Sandra Kutzing is a professional engineer and Senior Vice President at CDM Smith in New Jersey with 22 years of experience in drinking water. Ms. Kutzing is CDM Smith's Lead in Drinking Water Strategy leader, assisting utilities with meeting the Lead and Copper Rule and developing lead service line replacement programs.

She is an active member of the AWWA Distribution System Water Quality Committee.

Richard Giani, Distribution Water Quality and Corrosion Control Lead, CDM Smith

"LCRI Corrosion Control and Sampling Requirements"

Rich Giani is the Corrosion Control and Distribution Water Quality Lead at CDM Smith. Mr. Giani has 34 years of experience related to drinking water treatment and distribution water quality. Rich was a past chair of the AWWA Distribution WQ Committee and a lead author of the M58 Internal Corrosion Control in Water Distribution Systems.

**AWWA Webinar Program: AI Webinar Series: Part 1 - AI/ML Applications and Implementations in the Water Sector
Wednesday, February 7, 2024**

Webcast Description

Overview:

A 3-part webinar series in 2024 with leaders & experts in the AI/ML field providing background and discussing transformative issues, implications for the water sector, and a wholistic approach to adoption of emerging technologies.

AI and machine learning (ML) provides diverse tools for utilization within the water sector. These technologies offer substantial benefits, including enhanced predictive analytics, insights, and data management. Ultimately, they streamline both daily operations and long-term planning processes. Our panel will discuss and explore technologies and opportunities we can harness within the water industry.

Learning Objectives:

1. Differentiate between supervised, unsupervised, and reinforcement-based machine learning.
2. Identify applications of AI/ML in the water sector.
3. Analyze impacts of AI/ML implementation on the water sector and forecast potential future outcomes.
4. Examine the impacts of AI/ML on utilities and evaluate the potential for AI to foster parity between utilities of varied sizes and financial means.

Presenter Biography Information

Moderated by: Josh Fortenbaugh, AWWA

Katya Bilyk, Associate Vice President, Hazen and Sawyer

Katya is a nationally recognized leader in wastewater process modeling, nutrient removal, advanced control strategies, and machine learning. She has developed, calibrated, and utilized BioWin models for numerous wastewater facilities to optimize their performance and assess their ability to meet current/proposed nutrient limits. Katya is currently developing real-time process control capabilities for treatment operators.

Kyle Thompson, PhD, PE, Senior Reuse Technologist & National PFAS Lead, Carollo Engineers

Kyle is Carollo's National PFAS Lead and a Senior Reuse Technologist. With over 10 years of experience in research and consulting, Kyle specializes in advanced data science applications for reuse and One Water solutions for PFAS.

Prabhu Chandrasekeran, PE, Intelligent Water National Practice Leader, Arcadis North America

Prabhu is the Intelligent Water National Practice Leader for Arcadis North America. Prabhu brings over 18 years of engineering and consulting experience in water industry and specializing in utility management consulting for digital transformation. His background includes digital maturity assessment, digital strategy and planning, business process optimization, strategic planning, organizational effectiveness, smart water networks, Sensors and Industrial Internet of Things (IIoT) application, situational awareness, operations optimization.

Sasa Tomic, PhD, PE, Digital Water Lead, Burns & McDonnell Engineering Co. Inc.

Sasa provides over 30 years of experience in digital water and hydraulic modeling. He offers a unique blend of practical, theoretical, and software development skills perfected as an early adopter of AI in the water industry, the lead designer of hydraulic modeling platforms, and an internationally recognized digital water authority. Sasa is an active member of AWWA, SWAN, and WEF committees and serves on the Board of Advisors for Qatium.

AWWA Webinar Program: Looking Ahead to Compliance with Round 2 of AWIA: Updating Risk and Resilience Assessments and Emergency Response Plans

February 21, 2024

Webcast Description

Overview:

Are you prepared for the 2025/2026 round of America's Water Infrastructure Act (AWIA's) Risk and Resilience Assessment and Emergency Response Plan submissions? Attend this webinar to learn more about requirements, best practices, and available resources/training to comply with federal regulations and become more resilient. The next 5-year cycle is beginning. The deadline for updating Risk and Resilience Assessments (RRAs) and Emergency Response Plans (ERPs) for large water systems (serving more than 100,000 people) is quickly approaching. This March 2025 deadline will be followed by the submission of updates for medium and small water systems.

In this webinar, panelists will discuss the latest industry standards for RRAs, ERPs, and Cyber Security; best practices for revising the documents; EPA requirements; lessons learned to apply to this round; and additional resources to help your utility not only comply with the federal regulation but also truly become more resilient.

- Preparing for the Next Round of Compliance with America's Water Infrastructure Act
- Overview of AWIA Requirements and Updates to Recent Litigation
- EPA's Expectations and Tools for The Next Round of AWIA

Learning Objectives:

1. Understand the requirements and deadlines for the AWIA RRA and ERP updates.
2. Apply the lessons learned from other utilities to your utility.
3. Learn and use the tools available to update your RRA, ERP, and cybersecurity assessment and determine the next steps to becoming more resilient.
4. Update your emergency response plan to become a useful document to maintain resilience.

Presenter Biography Information

Moderated by Linda Warren, Resilience Specialist, Launch Consulting, Inc.

Kevin Morley, Manager – Federal Relations, AWWA

Kevin M. Morley, PhD is Manager, Federal Relations for the American Water Works Association (AWWA). He works closely with multiple organizations to advance the security and preparedness of the water sector. This includes

supporting the development of several ANSI/AWWA standards that represent minimum best practice for water sector risk and resilience management, including cybersecurity guidance. He is a leading expert on section 2013 of America's Water Infrastructure Act (AWIA) of 2018 and multiple resources that enable water system to advance their security and preparedness to all-hazards. Dr. Morley has been appointed to the President's National Infrastructure Advisory Council.

Charlene Kormondy, Water Infrastructure and Cyber Resilience Division, Office of Ground Water and Drinking Water, U.S. EPA

Charlene Kormondy joined the United States Environmental Protection Agency's Water Infrastructure and Cyber Resilience Division (WICRD) in 2020. Charlene leads the agency's efforts related to America's Water Infrastructure Act (AWIA) Section 2013. In this role, Charlene conducts outreach and training on AWIA requirements and how to conduct robust risk and resilience assessments and emergency response plans to prepare for future emergencies.

Heidi Gilmore, Senior Engineer, AECOM

**AWWA Webinar Program: Achieving Net Zero 2050: A Practical Approach to Decarbonization
February 22, 2024**

Overview:

Climate change puts the water industry at risk and makes the water supply less predictable. This directly impacts the water industry's ability to meet its primary mission to provide water on demand to its customers, safely and securely. While the water is part of the problem as a major carbon producer and emitter, the water industry is decentralized and risk-averse making it more challenging to implement essential broad-based decarbonization. As climate change accelerates at a rapid pace, there is an urgent need to take action, direct resources, and attention to decarbonization. We do not have the luxury of time. This webinar will focus on addressing actionable opportunities to fund and implement decarbonization initiatives and solutions.

Learning Objectives:

1. What solutions are other utilities deploying proven to reduce their carbon footprint and have a ROI?
2. How did those efforts come about and why?
3. What have other utilities done to tactically reduce carbon (low-hanging fruit) and why?

4. What is holding utilities back and how would one create a road map to affect change and overcome challenges such as funding, competing initiatives, climate change bias, securing internal support from staff and the board, etc?

Presenter Biography Information

Moderated by Cristina Ahmadpour, President and Managing Director (Americas), Isle Utilities

Clifford Chan, General Manager, East Bay Municipal Utility District

George Hawkins, Esq., Founder & CEO, Moonshot Missions (ret. GM of DC Water)

Austin Alexander, Vice President, Sustainability and Social Impact, Xylem Inc.

Gregg Semler, CEO & Founder, InPipe Energy

AWWA Webinar Program: From the Trenches: System Experiences Developing Service Line Inventories

March 13, 2024

Overview:

Under the Lead and Copper Rule Revisions (LCRR), initial service line inventories must be submitted by October 16, 2024. This webinar will present lessons learned from various utilities as part of their journey to develop LCRR compliance service line inventories, focusing on several key areas including, but not limited to:

- Strategies to demonstrate the system is non-lead
- Where and how many locations along the service line need to be verified
- How to address unusual configurations in the inventory such as college and hospital campuses and trailer parks
- How to apply predictive modeling results to an inventory

Learning Objectives:

1. Understand current federal and state guidance for developing service line inventories
2. Identify hurdles to developing service line inventories
3. Develop new strategies and tools to apply to a service line inventory
4. Identify where more guidance and flexibility is needed to support confident, cost-effective inventories

Presenter Biography Information

Erica Walker, Arcadis

Robert “Nick” Tuttle, Environmental Scientist Supervisor, Philadelphia Water Department

Nick Tuttle is an environmental scientist/data analyst with the Philadelphia Water Department. After the announcement of the LCRR, he has been working through the complexities of developing a service line material inventory for PWD. His presentation will focus on these efforts and highlight the difficulties inherent to building an inventory in a city where the entire service line is privately owned by the property owner and where the state has imposed more stringent requirements.

Samantha Chen, P.E., Water Quality Manager, Golden State Water Company

Samantha is a registered Professional Civil Engineer in the State of California with more than 10 years of industry experience in drinking water, manufacturing, and groundwater remediation. Samantha’s specialties include: drinking water quality, regulatory compliance, treatment, and project management. She holds a M.S. in Environmental Engineering from the University of California – Berkeley and a B.S. in Earth and Environmental Science from the University of California – Irvine.

Jan Chwiedosiuk, Director of Distribution, Middlesex Water Company

Mr. Chwiedosiuk is the Director of Distribution for Middlesex Water Company, a publicly traded investor-owned water and wastewater utility company, primarily serving New Jersey and Delaware, where he oversees over 800 miles of transmission and distribution pipelines ranging in diameter from 6 inches through 60 inches. Mr. Chwiedosiuk’s responsibilities include the planning, coordination, and management of the utility’s distribution system maintenance, compliance, and capital construction programs. Mr. Chwiedosiuk has both a B.S and M.S. in Civil Engineering from the New Jersey Institute of Technology and is a New Jersey licensed Professional Engineer and a W-4/C-2 Licensed Operator.

**AWWA Webinar Program: Communicating about Lead: Real-World Utility Examples
March 27, 2024**

Overview:

This webinar will feature speakers from utilities across the country who are communicating about the risks of lead entering drinking water and lead service line replacement programs in their communities.

Topics to be explored:

1. The AWWA Lead Communications Toolkit

2. How to engage with customers
3. How to prepare for new notification requirements

Presenters will share examples of communication that's worked for education and engagement. It's not too late (or too early) to start planning!

Presenter Biography Information

Christina Montoya-Halter, Communications and Marketing Manager, El Paso Water

Christina has 20 years of media, communications and marketing experience. She is currently the Communications and Marketing Manager for El Paso Water, overseeing all media relations, public relations and outreach activities for the utility. Previously, she was an award-winning television news anchor and reporter in El Paso at the local NBC and ABC affiliates. Montoya graduated with a BA from University of Southern California. Montoya serves as the Outreach Chair for WaterReuse Texas and previously served on the AWWA Public Affairs Council. Her work in communications and public outreach has been awarded at local, state and national levels.

Mary Gugliuzza, Media Relations & Communications Coordinator, City of Fort Worth

Responsible for development and coordination of Fort Worth Water Department communications, including employee communications, media relations, customer outreach, website content, school educational programs, and much more.

Rebecca Zito, Acting Senior Manager of Public Affairs, Pittsburgh Water & Sewer Authority

Rebecca is an accomplished communications professional with experience in the public sector. She is a skilled community engagement architect, writer, collaborator, and content strategist. Rebecca is passionate about the art of storytelling to build awareness about the initiatives that shape a community. Rebecca has a degree in Marketing from Gannon University in Erie, PA and a Masters Degree in Public Policy/Management from Carnegie Mellon University located in Pittsburgh, PA.

Rachele DiFebbo, Community Relations Senior Specialist, Denver Water

Communications, outreach and education for Denver Water's Lead Reduction Program, aimed at replacing the estimated 64,000-84,000 lead service lines

within Denver Water's service area. Program approved by EPA and CDEPHE in December 2019.

Kelly Savage Fry, Communication Manager, WaterOne

Create branded internal communication pieces such as newsletters, emails, event notices and more. Also coordinate and managing involvement in community events. Social media management and tracking. I also created content for our new website including conservation practices.