

AWWA Webinar Program: Presented by UMS Water -- Ditching Risk: How One City Simplified Its Complex Metering Upgrade
October 13th, 2022

Webcast Description

Overview:

The opportunity to streamline the benefits of advanced metering without the complexities of designing your own metering project is a new approach. This session will cover how Metering-as-a-Service (MaaS) is enabling utilities to subscribe to a metering program that delivers all the equipment, meters, software and services to upgrade antiquated infrastructures while simultaneously removing risk by eliminating the need for upfront capital investment. The City of Gonzales will share how they've leveraged MaaS to fast track their advanced metering, and utilities will learn how to remove the complexities of advanced metering, so they can focus on doing what is most important – serving their customers.

Learning Objectives:

- Understand how Metering-as-a-Service differs from the traditional approach to advanced metering.
- Learn how Metering-as-a-Service helped the City of Gonzales accelerate their approach to metering and achieve innovations with lasting impact.
- How utilities can advance beyond cost cutting and work smarter in order to make a genuine difference to long-term business goals and the community.

Presenter Biography Information

Jacob Jaspersen; Senior Advisor, UMS

Jacob currently serves as a Sr. Advisor for UMS, where he works with utilities and municipalities to help them identify their business objectives/needs and implement the solution that provides the best resolutions for their needs. He has worked in the municipal utility industry for over 12 years, working for both meter/technology manufacturers as well as system integrators and consultants. In addition to his work directly with municipalities, Jacob is a regular speaker and contributor to industry events and publications such as AWWA, NRWA WaterWorld, WaterPro, SWAN, Water Asset Management Conference, and many others.

Jackie Baumann; Chief Engineer, City of Gonzales

Jackie is a professional, civil engineer. She graduated from the Louisiana State University in 2000 and began her career designing residential and commercial developments. Jackie transitioned from private design work to municipal project management in 2007. For the past 12 years, Jackie has been the City of Gonzales Chief Engineer managing municipal storm water, drinking water, wastewater, natural gas, municipal building, disaster recovery, and roadway infrastructure projects. Jackie serves on numerous committees representing Gonzales and works to improve environmental health, roadway safety, utilities, and economic development within the City.

**AWWA Webinar Program: Women of Impact in Water
November 4th, 2022**

Webcast Description

Overview:

AWWA is proud to promote the many successes of women who contribute to advancing the water sector. Studies by international organizations: Her2O, World Bank and McKinsey & Company and The Society for Human Resource Management (SHRM) surveyed the barriers of women faced in workforce: fewer than one in five employees in a water utility, on average, are women; found out the performance of organizations with different levels of workplace diversity: gender and ethnic diversity are, respectively, 15% and 35% more likely to outperform less diverse organizations, and proposed potential solutions on improvement and enhancement.

Women leaders from different parts of the world and various career levels will share what motivates them to be self-resilient and to persevere along their career paths. This virtual event will recognize and celebrate the remarkable impact of gender diversity and inclusion in the water sector. All professionals are welcome, including students, senior executives and potential mentors.

Learning Objectives:

- Learn about barriers and challenges that female water professionals are facing in the water sector
- Hear from female leaders who find the strength to stay in this career and advocate for themselves to make a positive difference in business, society and in the water community
- Consider and develop strategies to leverage, sustain and promote the power of women in the workplace

Presenter Biography Information

Julienne Ndjiki; Programme Officer and Gender Equality Champion – Water Resource Cooperation Department, Stockholm International Water Institute (SIWI)

Julienne Ndjiki serves as Programme Officer and Gender Equality champion in the Water Resource Cooperation Department at Stockholm International Water Institute (SIWI) and is for supporting water diplomacy processes as part of SIWI's Shared Waters Partnership programme. Leveraging her background and 8-year experience in water resources management, transboundary water cooperation and governance, Julienne supports efficient coordination and engagement, programme management and development as well as resource mobilization. Julienne has supported the Women in Water Diplomacy Network in the Nile since 2021 through initiating the first Leadership Council as well as contributing to the development of the Women in Water Diplomacy Network Nile and Beyond Global Strategy 2022 - 2027

Brianna Huber; Founder/Executive Director, Her2O®

Brianna started her water career as the Chemist/Asst. Dept. Head at a municipal drinking water utility and is currently the Director of Water Filtration at the City of East Moline. Brianna is also

Founder/Executive Director of Her2O®, an international 501c3 nonprofit. As Director of Water Filtration Brianna is currently focused on improving asset management, optimizing operations through improved workflow, energy optimization and analytics, emergency management, implementing the LCRRs, and enhancing diversity, equity, and inclusion (DEI) at her utility. As the Executive Director of Her2O, Brianna is currently focusing on recruiting the next generation of women in water and sanitation via girl-centric outreach, integrating women into the industry via educating industry organizations about DEI and helping them implement DEI effectively, supporting women in the industry via advocacy, networking, support and training, and retaining women via research, support and education to industry employers. Through Brianna's vision, Her2O has also partnered with Engineer Without Borders(EWB)/Community Engineering Corps (CE Corp) to complete a drinking water project in VA and will complete a WASH project in Kenya in 2022. Brianna previously launched and was Chair of the ISAWWA Women in Water Committee, launched and chaired the ISAWWA Mentoring Committee, is Co- Chair of the Upper Mississippi River Surface Water Suppliers Coalition, and is a steering committee member of the USCG Area Maritime Security Council. She is also a committee member of the AWWA Diversity & Member Inclusion Committee and the ISAWWA District 1 Trustee. Brianna earned a BA in Biology, MS in Health Sciences, and an MBA in Business Analytics

Clare Haas Claveau, PE; Chief Operating Officer, Engineers Without Borders USA

Clare Haas Claveau, PE, is the Chief Operating Officer with Engineers Without Borders USA. In this position, she oversees the programmatic and operational functions of the organization. Clare is inspired daily by the passion and dedication of EWB-USA's volunteers and the impact they have in partnership with communities around the world. Clare has worked in the environmental industry for over 25 years providing a diverse range of management and engineering services. She holds a MS in Civil and Environmental Engineering from Marquette University and a BS in Mechanical Engineering from the University of Minnesota.

**AWWA Webinar Program: Implementing Biological Treatment Processes in One Water Applications
November 10th, 2022**

Webcast Description

Overview:

This webinar will provide operational strategies, lessons learned, and data interpretation of potable reuse/advanced water treatment facilities using biological treatment processes such as biofiltration.

This webinar will focus on regional (California) and national expertise to provide operational strategies, lessons learned, and data interpretation of potable reuse/advanced water treatment facilities using biological treatment processes such as biofiltration. Specifically, the webinar will discuss the benefits of biological treatment (e.g., improved removal of total organic carbon, contaminants of emerging concern, and nutrients) while providing guidance for managing common biofiltration challenges in potable reuse applications (e.g., bromate formation, biomass production). The webinar will feature potable reuse leaders from utilities nationwide who will share their experiences with pilot, demonstration, and full-scale implementation of biofiltration in advanced water treatment.

This webinar will highlight the benefits of implementing biological treatment processes in potable reuse applications, including increased stability of finished water and removal of recalcitrant contaminants.

Experiences from utilities implementing these biological processes will demonstrate to attendees how to implement and operate biological treatment processes, along with associated challenges.

This webinar will provide guidance to utilities wanting to implement biological treatment in water reuse applications. The audience will benefit from the experiences of other nationwide utilities implementing biological treatment in potable reuse.

Learning Objectives:

- Understand challenges associated with implementing biological treatment processes in potable reuse applications, such as management of unwanted contaminants (bromate).
- Evaluate the benefits of implementing biological treatment processes in potable reuse applications, such as treatment of constituents of emerging concern and improved finished water stability.
- Compare and assess implementation of biological treatment processes with traditional potable reuse technologies used in California's "full advanced treatment" train.
- Apply real-world biological treatment examples to their own treatment system to understand how to implement, conduct, and analyze results from a biological treatment pilot or full-scale system.

Presenter Biography Information

Ann Malinaro; Water Treatment Process Specialist, City of Aurora

While finishing her bachelor's degree from Schreiner University in 2007, Ann began her water career as Water Quality Chemist in a private laboratory. She then worked as a chemist for Dallas Water Utilities, and then as a Water Treatment Operator for DWU, before rising to the position of Plant Supervisor. In 2016, Ann joined Aurora Water as a Class A Water Operator and is currently the Process Specialist at Binney Water Purification Facility.

John Carroll; Pure Water Treatment Superintendent, City of San Diego

John Carroll is Pure Water Treatment Superintendent of the North City Pure Water Facility, Phase 1 of the City of San Diego's Pure Water Program. He has thirteen years of operations experience and eighteen years of service with the Public Utilities Department. John has a Grade V Wastewater Treatment Plant Operator certificate, a Grade 5 Advanced Water Treatment Operator certificate and is Chair of the Advanced Water Treatment Operator Certification Committee for CA-NV AWWA/CWEA.

**AWWA Webinar Program: Global Practices in Strengthening Vulnerable Water Communities
November 17th, 2022**

Webcast Description

Overview:

This webinar will offer an international perspective on how water utilities in small, under-resourced communities can implement advanced solutions and access needed assistance to build modern, efficient, and resilient water and sanitation systems to meet the unique needs of their communities into the future.

The objective of the webinar is to discuss the unique challenges faced by water utilities in small, under-resourced communities, particularly those most vulnerable to natural disasters and impacts from climate change. We will hear firsthand from utility operators and climate specialists about best practices for improving the resilience of water networks in vulnerable and disadvantaged communities, incorporating perspectives from both the U.S. and neighboring Latin American countries. Presenters will discuss demonstrated approaches and technologies that have been deployed in the U.S. and overseas to improve utility performance, enhance disaster preparedness and response, and adapt to the long-term consequences of climate change through water reuse and “One Water” approaches. Presenters will also explore what types of technical and financial assistance are most effective at helping disadvantaged communities build or rebuild critical water infrastructure using advanced technology and forward looking circular economic methodologies.

Attendees will learn how smaller utilities in vulnerable communities can access needed resources and technical capacity to improve the operating performance, resilience, and sustainability of their water and sanitation networks in the face of rising population pressure and a changing climate.

Learning Objectives:

- Water utility operators in small, under-resourced communities often face unique challenges that larger utilities can manage or avoid more easily, particularly when it comes to accessing resources needed to expand or modernize their systems in the face of growing populations and rising environmental and operational risks. This webinar is focused on understanding these unique challenges and providing first-hand knowledge of lessons learned specific to small and highly vulnerable utilities.
- The webinar will provide perspectives from both the U.S. and neighboring communities in Mexico and Puerto Rico, emphasizing the potential value of global knowledge sharing among under-resourced communities facing similar circumstances in the U.S. and abroad.
- The webinar will also be helpful for utilities focused on the U.N. Sustainable Development Goals, specifically the dual priorities of improving access to clean, reliable water and sanitation (SDG #6) while also combatting climate change and its impacts (SDG #13).

Presenter Biography Information

Moderated by Maria DeChellis; Founder, Executive Director, AccessH2O

Maria DeChellis is a 22-year veteran of the utility industry and is founder and executive director of AccessH2O, a nonprofit formed to provide financial assistance to vulnerable individuals at risk of water shut-off. A former public works chief for the City of Baltimore, Maria is also Senior Director at Oracle, specializing in solutions for municipal and public utilities and working on policy for water affordability and equity. She is a Division Trustee to the Management and Leadership Division of the American Water Works Association and is a Certified Project Manager and Certified Change Management Professional.

Bruce A. Macler, PhD; Drinking Water Toxicologist (Retired), US EPA

Dr. Bruce Macler recently retired from US EPA after three decades as the Pacific Southwest Region's drinking water toxicologist. During that time, he worked on many drinking water regulations and oversaw EPA-sponsored water research projects. He has more than 35 years experience on wastewater recycling, beginning with NASA's efforts for a Mars mission in the 1980's. He remains professionally active, primarily with the American Water Works Association. Current research interests include the safety of recycled and alternative water sources, wildfire-related contamination of drinking water distribution systems, emergency management, and water treatment for small systems. He has a PhD in biochemistry from UC Berkeley and has authored over 70 professional publications.

Eduardo Ortegon Williamson; Director of Technology - Water and Sanitation Services, Monterrey (Mexico)

Listed as one of Mexico's 100 leaders in the Energy Sector in the Petroleo & Energía Magazine in 2020, Awarded at the Dutch Embassy an Scholarship to the Energy Executive Training in Rotterdam in September 2019, Finance Teacher in ICAMI, Awarded the Excellence Scholarship for the Master un Public Administration by Tec de Monterrey in 2018. Scholarship Recipient of Deutscher Akademischer Austauschdienst (DAAD) at Technische Universität Hamburg-Harburg (2003-2003).

Daniel Nix; Utility Operations Manager, Wichita Falls (Texas)

Daniel Nix is the Utilities Operations Manager for the City of Wichita Falls, where he has accumulated 35 years of experience in Water and Wastewater Treatment. Daniel graduated from Midwestern State University with a Bachelor of Science Degree in Environmental Sciences and holds licenses in both Water and Wastewater Operations from the State of Texas. Daniel is very active within the AWWA community, serving as Texas Section Chair in 2017, as well as serving on numerous State and National level committees related to water treatment, quality and potable reuse

**AWWA Webinar Program: Communicating about PFAS and Lithium in UCMR5
November 30th, 2022**

Webcast Description

Overview:

This webinar includes an expert review of the available lithium health effects information as well as an introduction to a communications "how to" guide for water systems speaking to their customers about PFAS. The webinar will close with a panel discussion with invited communication experts from the sector and regulatory agencies.

There is increasing public awareness and concern about per- and polyfluoroalkyl substances (PFAS), especially when found in drinking water. There are also public health claims regarding lithium in drinking water. With sampling under the Unregulated Contaminant Monitoring Rule community water systems across the nation and their customers will have information about the occurrence of 29 PFAS

and lithium in finished water both for their own water system but also many other systems across the country. PFAS and lithium are complex, hot-button communication topics for water systems. Planning ahead for communication for UCMR5 results is essential.

Learning Objectives:

- Better prepare to communicate about lithium in drinking water
- Better prepare to communicate about PFAS in drinking water

Presenter Biography Information

Dr. Greg Paoli; Principal Scientist, Risk Sciences International

As RSI's Principal Risk Scientist and COO, Greg Paoli is currently working with a broad spectrum of clients in the public and private sectors, with the greatest emphasis on the development of new approaches to transform regulatory systems to be more "risk-based" at multiple levels: how senior decision-makers process risk information and make the "tough choices" in regulating health and safety, how an organization can optimize its resources across a diverse mandate to maximize total "portfolio-level" risk reduction, and how to operationalize key resources like the scheduling of inspections when faced with thousands of inspection targets, but not enough resources to inspect all of them. While food safety and chemical safety continue to be an important part of his work, he has also been fortunate to gain a deep understanding of a very wide variety of risks borne by the public or the public interest. He has also shifted from focussing on specific risk issues on behalf of his clients to addressing the organization-wide capacity to conduct risk assessment and developing enabling technologies to allow for more robust risk assessment work within the client organizations. He was particularly fortunate to work with Public Safety Canada and the Defence Research and Development Canada (DRDC) in the development and application of the All-Hazards Risk Assessment Methodology for Whole-of-Government application of Emergency Management. During the same period, he was working with the Canadian Conservation Institute in applying risk management methods to the preservation of cultural property with hazards ranging from theft, to sunlight and humidity ruining paintings, to toxic ink destroying the very documents that record history.

Dr. Lauren Weinrich; Principal Scientist, American Water

Lauren has fulfilled her passion to better understand and protect our environment as a senior scientist in the Water Research and Development team for over 10 years. She works on research projects related to treatment, monitoring and optimization in drinking water, water reuse and seawater desalination in which she utilizes her laboratory training to solve challenges. Lauren holds a Master's degree from UNC Chapel Hill where she studied drinking water and disinfection chemistry and a Ph.D from Drexel University where she investigated a monitoring method for biological fouling to reduce its costly consequences in seawater desalination. Outside of work, she is an avid hobbyist of Amazonian discus fish and enjoys experiencing different cultures through her international travels.