

American Water Works Association Annual Conference & Exposition (AWWA ACE24)

June 10-13, 2024 in Anaheim, California

Session Descriptions & Objectives with Speaker Names

www.awwa.org/ace

EducationServices@awwa.org

For Oregon - OESAC - The sessions in yellow cover wastewater topics. Some of these sessions overlap, so it is not possible for an operator to attend them all. Max WW hours assigned for ACE24 is 8.

Session Date	Session Start Time	Session End Time	Session Code	Session	Wastewater Hours	Session Title	Session Description	Presenter First Name	Presenter Last Name	Presenter Job Title	Presenter Company	#
6/11/2024	3:30 PM	5:00 PM	TUE24	TUE24	1.5	TUE24 - Exploring the Digital Transformation of Water and Wastewater Industry	This session will present four examples of digital transformation in the Water Industry from various perspectives on a wide variety of topics. Learn about the journey and benefits of digital transformation and applying Artificial Intelligence.	Kedric	Szana		Jacobs	111
6/12/2024	8:30 AM	11:30 AM	WED20	WED20	3	WED20 - Resilient Urban Waters; Stormwater Management for Climate Adaptive Cities	Explore transformative initiatives in stormwater management designed to fortify urban environments against climate-related challenges. From flood planning to green infrastructure to cloudburst resiliency, this session delves into innovative approaches, partnerships, and community-focused solutions reshaping how cities respond to stormwater-related threats.	Paula	Lemons	Water Resources Project Manager	HDR	219
6/12/2024	8:30 AM	10:00 AM	WED21	WED21	1.5	WED21 - Showers to Flowers or Toilet to Tap? Potable Reuse	In the face of unpredictable water supplies in California, water reuse is an increasingly attractive option to diversify water supply portfolios. Monitoring and removal of chemical and microbiological contaminants in reuse source waters is essential to ensure the safety of water reuse. This session will present research on advanced methods to remove contaminants in reuse source waters and methods used to optimize a recycled water recharge project.	Maureen	Hodgins	Regional Liaison	Water Research Foundation	226
6/12/2024	10:00 AM	11:30 AM	WED36	WED36	1.5	WED36 - Gathering Support for Water Reuse Projects	As drought and effluent disposal challenges affect more utilities, potable reuse is becoming a more common and viable water supply strategy. But if you haven't talked to your customers about potable reuse before, there are specific strategies and resources you should consider. This section will feature speakers from different parts of the country who have either implemented outreach programs for potable reuse projects or can offer resources for utility communicators.	Christina	Montoya-Halter	Communications and Marketing Manager	El Paso Water Utilities	269
6/12/2024	1:30 PM	4:30 PM	WED61	WED61	3	WED61 - Enhanced Identification, Early Detection, and Removal of Contaminants in Potable Reuse	Potable water reuse is an increasingly attractive option to diversify water supply portfolios in the face of unpredictable water supplies in California. Research into monitoring and control of chemical and microbiological contaminants in reuse source waters is advancing our ability to implement potable reuse. This session will focus on methods for enhanced identification, early detection, and removal of contaminants in potable reuse.	Maureen	Hodgins	Regional Liaison	Water Research Foundation	140
6/13/2024	8:30 AM	11:30 AM	THU20	THU20	3	THU20 - The Evolving Water Reuse Landscape: Resilient Solutions for a Sustainable Future	This session showcases diverse projects and programs across different regions, providing insights into challenges, successes, and paradigm shifts in the realm of potable water reuse and reclaimed water utilization. Explore the evolving landscape of water reuse, from strategic reclamation efforts to comprehensive feasibility studies, and discover how these endeavors contribute to drought resilience and efficient water resource management.	Justin	Mattingly	Research Manager	USEPA	486
6/10/2024	9:00 AM	4:30 PM	PCW01	PCW01		PCW01: Asset Management: From Fundamental Concepts to Advanced Practices	The AWWA 2020 survey evaluating the Progress Levels in Asset Management revealed that many utilities still lack maturity in fundamental asset management documentation. This workshop will delve into critical documents, including the strategic asset management plan and asset management plans, exploring their content, sharing valuable lessons learned, and illustrating the advantages they offer utilities. Moreover, advanced topics like resilience, social equity, and environmental justice will be examined in relation to these plans.	Celine	Hyer	Senior Vice President Water Conveyance Leader	Arcadis	1

Session Date	Session Start Time	Session End Time	Session Code	Session	Wastewater Hours	Session Title	Session Description	Presenter First Name	Presenter Last Name	Presenter Job Title	Presenter Company	#
6/10/2024	9:00 AM	4:00 PM	PCW02	PCW02		PCW02: Successful Implementation of a Condition Assessment Program After Funding	Many utilities face challenges when it comes to establishing condition assessment programs. Some struggle to initiate such programs due to a lack of guidance, while others have programs but are unsure how to kick-start them. This workshop aims to guide the audience through the effective implementation of a condition assessment program, offering insights into tailored approaches that suit their utility's unique requirements. Industry-leading utilities will also share case studies to illustrate their successful approaches and explain why these strategies were effective.	Scott	Jauch	Assistant Project Manager	HDR	2
6/10/2024	9:00 AM	4:00 PM	PCW03	PCW03		PCW03: Optimal Delivery for my Public Water Utility Capital Project: What's the Best Approach?	How do you determine the best approach for delivering a capital improvement project? This workshop offers an opportunity for professionals, both new and experienced, to collaborate with water utility experts on how to make informed decisions about project delivery methods. In the morning, participants will gain insights into different project delivery methods, such as design-bid build, construction-manager-at-risk, and design-build, and engage in group discussions to select the most suitable method for example projects. In the afternoon, panels featuring experienced owners and practitioners will provide real-life perspectives on collaborative water project delivery methods.	Spencer	Adams	Engineer	Jacobs	3
6/10/2024	9:00 AM	4:00 PM	PCW03	PCW03		PCW03: Optimal Delivery for my Public Water Utility Capital Project: What's the Best Approach?	How do you determine the best approach for delivering a capital improvement project? This workshop offers an opportunity for professionals, both new and experienced, to collaborate with water utility experts on how to make informed decisions about project delivery methods. In the morning, participants will gain insights into different project delivery methods, such as design-bid build, construction-manager-at-risk, and design-build, and engage in group discussions to select the most suitable method for example projects. In the afternoon, panels featuring experienced owners and practitioners will provide real-life perspectives on collaborative water project delivery methods.	Paul	Delphos	Regional Global Practice Manager - Water	Burns & McDonnell	4
6/10/2024	9:00 AM	5:00 PM	PCW04	PCW04		PCW04: Operationalizing Automation, Data Analytics, and Machine Learning	Water 2050 proposes the advancement of digital technologies to enhance resource management and optimization. This workshop will delve into the factors driving this initiative, the obstacles encountered, and the opportunities it presents in harnessing digital technologies and putting data analytics into practical operation. It will explore the integration of AI/ML for improved decision-making intelligence. Participants will gain insights into evaluating and strategizing their decision support systems and AI/ML projects, underpinned by robust data engineering and analytics capabilities.	Prabhushankar	Chandrasekeran	Intelligent Water National Practice Leader, Arcadi	Arcadis	5
6/10/2024	9:00 AM	4:30 PM	PCW05	PCW05		PCW05: How to Extend the Lives of Old Water Mains Using Proven, Cost-Effective Methods	This workshop will emphasize the hands-on implementation of water main rehabilitation techniques, catering to utility managers and engineers at every proficiency level, from beginners to seasoned experts. Attendees will acquire the essential skills required to initiate or enhance programs that achieve greater infrastructure renewal while optimizing costs and minimizing public disruptions. The workshop will spotlight case studies from both large and small utilities, and participants are encouraged to actively engage in discussions and share their own experiences.	Dan	Ellison	Sr. Professional Associate	HDR	6
6/10/2024	9:00 AM	5:00 PM	PCW06	PCW06		PCW06: Operationalizing Digital Twins: Connecting to SCADA	Digital twins offer excellent benefits in operations, emergency management, and planning; however, the development of the digital twins requires knowledge in Operational Technology (OT) and data management/integration. The workshop will provide hands-on experience on how to build digital twins, including OT, cyber security, real-time modeling tools and utility case studies.	James	Cooper	Global Director	Arcadis	7
6/10/2024	1:00 PM	5:00 PM	PCW07	PCW07		PCW07: Beyond the Spec Book: Learn to Design and Operate Water System Equipment through AWWA Standards & Manuals	This comprehensive workshop offers participants hands-on experience with water system equipment such as pumps, valves, and pipe. Through this workshop, attendees learn practical knowledge of water treatment equipment and equipment specifications in user terms. They will also learn the value of AWWA Standards and Manuals as a resource in designing and operating various water system equipment.	Jihyon	Im		CDM Smith	8

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6/11/2024	1:00 PM	1:45 PM	CHAT	CHAT		Fireside Chat with EPA	With an interactive audience discussion moderated by AWWA's CEO, David LaFrance, the Fireside Chat with EPA will cover EPA's perspective a variety of relevant topics in the water sector, as well as recognize the 50th Anniversary of the Safe Drinking Water Act. You will not want to miss this opportunity for discourse with key EPA regulators and the chance to have your questions addressed.	David	LaFrance	Chief Executive Officer	American Water Works Association	9
6/11/2024	2:00 PM	5:00 PM	TUE01	TUE01		TUE01 - Improving Water Treatment Resilience and Sustainability with Biological Treatment	Many utilities are looking to biological treatment to achieve more economical and sustainable treatment in surface water, ground water, and reuse applications. Biological treatment processes have the potential to boost treatment resiliency, as well as improve the overall sustainability of water treatment processes by leveraging microorganisms to biologically transform or degrade components.	Ashley	Kent	Discipline Leader, Biological Drinking Water Treat	Arcadis	10
6/11/2024	2:00 PM	5:00 PM	TUE02	TUE02		TUE02 - Complexities of PFAS - New Research about Removal, Transport, and Destruction	Research on PFAS has made significant strides in understanding the removal, transport, and destruction of these persistent contaminants. Studies explore advanced filtration technologies, such as adsorption and membrane processes, to enhance PFAS removal from water sources. Additionally, research delves into the environmental fate and transport of PFAS, unraveling pathways and mechanisms that govern their movement through different media. Innovations in destructive technologies, including chemical and biological degradation methods, offer promising avenues for breaking down PFAS compounds, addressing the urgent need for effective remediation strategies in the face of growing environmental and health concerns.	Kim	Ervin			16
6/11/2024	2:00 PM	5:00 PM	TUE03	TUE03		TUE03 - What Does Water 2050 Mean for Water Infrastructure Asset Management Practices	This session will show the relationship between the visionary concepts from Water 2050 and asset management. Case study presentations will provide examples of the linkage and show how their utilities have adapted their business practices to anticipate future challenges. There will be opportunities for audience engagement through question and answer after each presentation and the panel discussion.	Jennifer	Suttles	Division Director, Water and Sewer Technical Servi	Gwinnett County Government Department of Water Resources	23
6/11/2024	2:00 PM	3:30 PM	TUE04	TUE04		TUE04 - Tackling Plant Operation & Maintenance Issues	This session will review how utilities tackle tough operation and maintenance issues at their plants. Issues range from chemical tank maintenance, chlorine equipment maintenance, and overall O&M performance standards					33
6/11/2024	2:00 PM	3:30 PM	TUE05	TUE05		TUE05 - PFAS Media Maintenance and Management Strategies	This session explores the nuanced aspects of maintaining and optimizing the performance of PFAS removal media throughout its operational lifespan. Topics covered include best practices for routine maintenance, techniques for media regeneration, and considerations for efficient management to ensure sustained efficacy in PFAS removal systems. Attendees will gain insights into the challenges and innovations associated with preserving the functionality of PFAS media, contributing to the development of effective, long-term solutions for mitigating PFAS contamination.					37
6/11/2024	2:00 PM	5:00 PM	TUE07	TUE07		TUE07 - Emergency Preparedness Modeling for Distribution Systems	Water utilities are faced with tough decisions about how to operate, maintain, and improve their water distribution systems. Capacity, aging infrastructure, and water quality concerns drive the decision-making process, as do other risks to infrastructure. This session will focus on helping utilities make informed decisions using hydraulic modeling to quantify risks common to distribution systems.	Meg	Roberts	Distribution Systems Services Leader, Associate Vi	Hazen and Sawyer, P.C.	41
6/11/2024	2:00 PM	3:30 PM	TUE08	TUE08		TUE08 - The Project Before the Project: For Owners, Capital Project Delivery Is More Than Just Design and Construction	Delivering capital projects is a tremendous undertaking for utility owners, and when you put aside the design and construction phases of the project, the burden remains on owners to plan, budget, fund, procure, bid, administer, and hand-off their capital projects, often with little outside help. This session focuses on capital project delivery from the owner's perspective and the standards, best practices, and evolving needs for owners to remain both steadfast in their values and flexible in their approach.	Spencer	Adams		Jacobs	48

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6/11/2024	2:00 PM	5:00 PM	TUE09	TUE09		TUE09 - Utility Perspectives on LSLR Challenges Under the LCRI	This session will provide an opportunity for water systems to share experiences and learn from each other with some of the major challenges related specifically to identifying and replacing LSLs on private property, and how to prepare for potential upcoming requirements under the LCRI. The challenges to be addressed in this session are funding, private property access and communication/public outreach. All utilities with LSLs will be faced with these challenges when development and implementing their lead service line replacement programs.	Rebecca	Slabaugh	Drinking Water Practice Lead	Arcadis	52
6/11/2024	2:00 PM	5:00 PM	TUE10	TUE10		TUE10 - Water Policy Look Ahead	With Water 2050 AWWA is looking 30 years into the future and asking what future the sector believes we need to aspire to. The session focuses on the water policy challenges and opportunities facing the sector today. Overcoming today's obstacles will be necessary to set the stage for achieving future goals	Suzanne	Delorenzo	Director of Water Quality	San Jose Water Company	58
6/11/2024	2:00 PM	5:00 PM	TUE11	TUE11		TUE11 - Small System Management in the 21st Century	Operating a water utility under mindset "as long as the pipes are wet, all is good" is no longer sufficient in the 21st Century. Water utilities, especially small-sized water utilities, need to consider affordability, source adaptation, asset repair and replacement, and financial planning as they strategically build resilience and sustainability today and into the future. These six speakers will provide water utility managers and staff with the tools and roadmap to their strategic goals.	Michael	Grimm		West Slope Water District	64
6/11/2024	2:00 PM	5:00 PM	TUE13	TUE13		TUE13 - Implementing & Communicating Water Conservation Programs	Hands-on programming is the bread and butter of any effective water conservation and efficiency program. These speakers will share lessons learned from their programs, including the importance of communicating with the public and show how water use is changing.					71
6/11/2024	2:00 PM	3:30 PM	TUE14	TUE14		TUE14 - California's Hexavalent Chromium Regulation	In 2022 California proposed a Maximum Contaminant Level for hexavalent chromium of 10 ppb, which is expected to take effect in 2024. This session will discuss California's regulation of hexavalent chromium, potential cost of compliance, and how regulators are preparing for enforcement of the new regulation.	Tim	Worley			78
6/11/2024	2:00 PM	3:30 PM	TUE15	TUE15		TUE15 - Innovative Source Water Protection Approaches for Addressing Emerging Contaminants	This session explores diverse challenges in water quality management and the innovative approaches employed to mitigate contamination risks. From addressing 1,4-Dioxane in the Ohio River through interstate collaboration to tackling PFAS in Tucson's wellfields with a unique golf course treatment facility, and finally, the evolution of continuous online algae monitoring for proactive water treatment in the Region of Peel. Attendees will gain insights into effective strategies, collaborative initiatives, and advanced technologies shaping the future of source water protection.					81
6/11/2024	2:00 PM	3:30 PM	TUE16	TUE16		TUE16 - Ensuring Water Supply Resiliency for 19 Million People: Lessons Learned From Water Agency Leaders in Southern California	Ensuring a reliable, resilient and sustainable water supply for Southern California is becoming more challenging due to climate change, seismic risks and increasing regulations. This facilitated panel of water agency leaders will discuss lessons learned from past and planned implementation of resiliency programs and expected benefits to the region, state and nationally.	Keli	Balo	Deputy Director, Engineering and Program Management	San Diego Public Utilities Department	85
6/11/2024	2:00 PM	3:30 PM	TUE16	TUE16		TUE16 - Ensuring Water Supply Resiliency for 19 Million People: Lessons Learned From Water Agency Leaders in Southern California	Ensuring a reliable, resilient and sustainable water supply for Southern California is becoming more challenging due to climate change, seismic risks and increasing regulations. This facilitated panel of water agency leaders will discuss lessons learned from past and planned implementation of resiliency programs and expected benefits to the region, state and nationally.	Anselmo	Collins	Senior Assistant General Manager, Water System	Los Angeles Department of Water and Power	86
6/11/2024	2:00 PM	5:00 PM	TUE17	TUE17		TUE17 - Strategic Policies for Tackling Water Challenges Across the Globe by Charting a Course to a Sustainable Water Future	Communities across the world are facing many common water challenges ranging from scarcity, flood, and poor management. This session will provide a venue for North America attendees and our overseas visitors to share lessons learned, success stories, and insights across a number of projects and geographic settings.	Pooja	Chari	Water & Wastewater Engineer	Woodard & Curran	89
6/11/2024	2:00 PM	3:30 PM	TUE18	TUE18		TUE18 - Centering People: Exploring the Intersection Between DEI, Water 2050 and the UN's Sustainable Development Goals	Leaders across the globe and the AWWA community are working today to create a better tomorrow. A sustainable water future means a sustainable workforce. Hear from this esteemed panel of national leaders about the intersection between the Water 2050 project, the UN's Sustainable Development Goals, and everyday DEI strategies.	Donnell	Duncan	Associate Vice President		93

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6/11/2024	2:00 PM	4:00 PM	TUE19	TUE19		TUE19 - Setting the Stage for the Next Generation of Water Professionals	Setting the stage for the next generation of water professionals involves a strategic focus on education, technology, and sustainability. Establishing partnerships between educational institutions and the water sector providing internships that can introduce and prepare young individuals for working for water. Encouraging the adoption of cutting-edge technologies and data-driven solutions within the water sector will attract tech-savvy professionals and enhance efficiency. Moreover, emphasizing the industry's commitment to sustainable practices and environmental stewardship will resonate with the socially conscious values of the next generation, inspiring them to contribute to the vital work of water professionals in addressing global water challenges.					94
6/11/2024	3:30 PM	5:00 PM	TUE21	TUE21		TUE21 - Strategies to Improve Resiliency in Water Infrastructure	Join us for a session on exploring strategies to improve resiliency for utility owners. Moulton Niguel Water District led an effort to broadly engage their organization to develop a people-centered approach to sustained organizational resilience. A panel discussion will follow, featuring Ted Henifin, Interim Third Party Manager for Jackson Water, and representatives from engineering partners. The discussion will explore the critical intersection of resiliency and sustainability in water infrastructure development through the lens of the Jackson water system and its complex challenges.	Mel	Harclerode			100
6/11/2024	3:30 PM	5:00 PM	TUE22	TUE22		TUE22 - Smart Water Metering: Advancements, Trends, and Business Models in the Global Water Market	The evolving landscape, driven by technological advancements, allows metering systems to gather more data through cellular networks and convert it into actionable intelligence, marking a departure from traditional billing-focused designs. This session explores how to maximize the value of this intelligence, emphasizing the need for utilities to leverage new AMI data sets for improvements and innovations in operations. Here from experts as they explore the transformation of water metering and shifting metering business models.	Christopher	Tapia	Meter Service Worker	Carlsbad Municipal Water District	103
6/11/2024	3:30 PM	5:00 PM	TUE23	TUE23		TUE23 - PFAS Operations Experience	The extent of PFAS occurrence in environmental waters is unknown, and there is economic and public pressure to install treatment systems that can remove additional PFAS that may be regulated in the future. To this end, robust analytical methods and knowledge of treatment efficacy across a wide breadth of PFAS are needed. This session adds to the sector's growing PFAS treatment knowledge through analysis of three utility approaches to PFAS treatment.					107
6/11/2024	3:30 PM	5:00 PM	TUE25	TUE25		TUE25 - Unique Project Drivers Guiding 3 Owners to Collaborate Delivery	What do a circa-1800's WTP in Maine, a 1/2-billion dollar conveyance project in California, and Microchips in Texas have in common? They have enough unique challenges and project drivers to encourage these Owners to look beyond traditional design-bid-build for delivery methods that provide the flexibility they need. Attendees in this session will learn about three vastly different projects, and why their Owners determined that CMAR and Progressive Design Build afforded them the best path to a successful project outcome.	Scott	Phillips	Business Development Manager	Garney Construction	116
6/11/2024	3:30 PM	5:00 PM	TUE27	TUE27		TUE27 - Water is a National Security Priority	Water and wastewater play a critical role in our nation's infrastructure. Ensuring the protection of these systems is crucial for the survival and well-being of all Americans. The sector faces a variety of threats, including contamination, physical attacks, and cyber-attacks. In this session the Cybersecurity and Infrastructure Security Agency (CISA) will discuss collaboration with the Environmental Protection Agency and water system stakeholders to mitigate risks, including new resources to support water systems with managing various risks. The recently updated strategic plan of the Water Sector Coordinating Council will be profiled which include key priority for improving the sectors security posture. The session will also include a profile from a utility on actions it has taken to mitigate various risks. This will conclude with a facilitated panel discussion with audience Q&A.	Andrew	Ohrt	Resilience Practice Area Lead	West Yost Associates	120

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6/11/2024	3:30 PM	5:00 PM	TUE29	TUE29		TUE29 - The Water Research Foundation Research Highlight: Holistic Flood Management Under Climate Impacts	Municipalities and utilities are facing unprecedented challenges in planning for extreme precipitation and flooding events, which are occurring more frequently and unpredictably. A holistic approach to flood management and modeling, including partnerships among stakeholders, is needed to better balance competing management objectives while minimizing overall system vulnerabilities in a changing climate. This half-session will provide the latest advances and best practices with case studies from WRF-funded research studies and share the utility perspectives as well. The research findings and related guidance can be applied by municipalities of all sizes to incorporate climate variability and uncertainty into their holistic flood management and modeling practices.	Harry	Zhang		The Water Research Foundation	122
6/11/2024	3:30 PM	5:00 PM	TUE30	TUE30		TUE30 - Challenges and Solutions for Implementing Metropolitan Water District's Pure Water Southern California	Our session will feature five speakers that will present on the work that they are currently doing to help implement the PWSC. There will be a variety of topics including technical and policy presentations made by the Metropolitan and LACSD staff responsible for the work. After the presentations, the panel members will answer both questions from the facilitator as well as the audience.	Gloria	Lai Bluml	Advanced Water Treatment Facilities Program Manage	Metropolitan Water District of Southern California	123
6/11/2024	3:30 PM	5:00 PM	TUE31	TUE31		TUE31 - Navigating Challenges of Water Affordability	Rising costs and recent high-profile crises have made the affordability of water and sewer service a prominent policy issue for utility managers, as well as local, state, and federal officials across the United States. A clear picture of affordability is critical as utility leaders seek to serve low-income customers while simultaneously raising the revenue necessary to maintain and advance public health. Developing and implementing sustainable models, such as income-based affordability programs and community-driven solutions, get us closer to safe water access for all.					129
6/11/2024	3:30 PM	5:00 PM	TUE33	TUE33		TUE33 - Xylem Sponsored Session - Unlocking Optimization: Stories of Success in Pipeline Management and Smart Metering	Utility managers face the challenge of driving efficiency while upholding reliability, safety, and affordability. Join us to hear industry and utility leaders share their success of optimization within drinking water systems through large-diameter pipeline management and integration of smart metering technology. Utility leaders will share their perspectives on holistic strategies, innovative assessments, and transformative applications for data analysis. Attendees will leave equipped with the knowledge to build, strengthen, and optimize their drinking water systems serving large industrial and contract water customers.	Lynne	Putnam	Senior Program Manager		133
6/12/2024	10:00 AM	11:30 AM	WED27	WED27		WED27 - Lessons Learned on Development and Implementation of a Linear Asset Management Program from a Utility Perspective	This session will serve as a venue to discuss lessons learned from development and implementation of linear asset management programs through the lens of representatives from four major utilities. Participants will be representative of varying geographic regions and disciplines within their respective utility, offering unique perspectives on the similar, but different challenges, they each face.	Cheryl	Porter	Chief Operating Officer, Water	Great Lakes Water Authority	134
6/12/2024	8:30 AM	10:00 AM	WED01	WED01		WED01 - Monitoring, Prevention and Tools for Managing Nitrification	The standard practice for nitrification monitoring is to collect a grab sample from water storage tanks and reservoirs weekly to monitor residual disinfectant as well as nitrite levels. Implementing the use of on-line analyzers to monitor the nitrite levels is beneficial for maintaining high water quality. Studies were conducted to understand the impact of increased chlorine to ammonia ratio to address nitrification issues on water quality, providing system-specific recommendations for improvement, including the addition of mixers and online analyzers.	Meg	Roberts	Distribution Systems Services Leader, Associate Vi	Hazen and Sawyer, P.C.	141
6/12/2024	8:30 AM	11:30 AM	WED02	WED02		WED02 - 101 Series: Conventional Surface Water Treatment	Back by popular demand! AWWA's 101 water treatment series are a great opportunity to learn and refresh. Always engaging, always enlightening. Join us for ACE24's 101 session on Conventional Surface Water Treatment. Coagulation, filtration, disinfection, and aesthetics controls are the backbone to many water treatment systems. A focus on the basics of these technologies and their optimization provides a foundation to improve plant performance and efficiency. This series serves as a reminder of these critical system components, provides basic information for those new to the field, and a valuable refresher for those with years of experience in the industry.	Rebecca	Venot			145

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6/12/2024	8:30 AM	10:00 AM	WED03	WED03		WED03 - Current Research on Pipe Joints and Pipe Liners	Ongoing research in the field of pipe joints and liners has focused on improving the durability, efficiency, and environmental sustainability of these components. Researchers have been exploring advanced materials and manufacturing techniques to enhance the strength and longevity of pipe joints, and developing pipe liners that can resist corrosion, optimize fluid flow, and address specific challenges in diverse applications in water distribution and wastewater management.					146
6/12/2024	8:30 AM	10:00 AM	WED04	WED04		WED04 - Emerging Trends in Sustainable Infrastructure	This session dives into emerging trends and novel approaches for sustainable infrastructure. Orange County, Florida identified their Northwest Water Reclamation Facility as a pilot project for ground-mounted solar installation in pursuit of their goal to achieve 100% of electricity load from clean, renewable sources by 2035. Harrisonburg, Virginia included consideration of specific energy and preferred operating ranges into their procurement process to ensure their equipment best met their needs. A 60+ floor building development in Ottawa has implemented WET technologies using domestic sewage as a heat source.	Christine	Kirby	Senior Associates, Team Leader	Lockwood, Andrews & Newnam, Inc. (LAN)	150
6/12/2024	8:30 AM	10:00 AM	WED05	WED05		WED05 - Prioritizing Pipe Condition Assessment – a Playbook for Savings	This session covers three topics of interest for the water pipe condition assessment community. First, the economic return on investment value proposition for three types of pipe condition assessment categories: desktop condition assessment, survey level condition assessment, and high-resolution condition assessment. Second, outline the business case for each assessment type. Third, prioritize pipe condition assessments economically, and qualitatively based on organizational priorities and triple bottom line impact.	Tim	Ruhl	Product Line Leader - Water Products and Solutions	Mueller	154
6/12/2024	8:30 AM	10:30 AM	WED06	WED06		WED06 - Everything You Ever Wanted to Know About Water Main Rehabilitation - the Brand-New Update to Manual M28	This session will provide an overview of water main rehabilitation methods, what they accomplish, their benefits and limitations. Participants will learn how to determine the method that best matches their objectives, and ways to manage the project or program for maximum benefit. Case studies will demonstrate where utilities have successfully used spray-applied lining, cured-in-place pipe lining, pipe bursting, and other methods, in place of traditional open-trench construction.	Mark	Knight	Professor	Waterloo University	159
6/12/2024	8:30 AM	10:00 AM	WED07	WED07		WED07 - Managing Water Quality with Distribution Flushing	Distribution system flushing is an important maintenance practice aimed at improving water quality and system performance. Strategic flushing practices release accumulated sediments, debris, and stagnant water, preventing issues such as discoloration, and taste and odor problems. This session discusses valuable insights and utility case studies and tools to support an effective distribution flushing program.					166
6/12/2024	8:30 AM	10:00 AM	WED08	WED08		WED08 - Treatment Plant Solids Residual	This session will review how utilities address issues with solids residuals from treatment plants. Topics discussed will include: screw press dewatering facilities, residual process optimization, and the impact to residuals handling by changing coagulants.					169
6/12/2024	8:30 AM	11:30 AM	WED09	WED09		WED09 - Persistent Fixes to Adverse Synthetics: Effective Solutions for PFAS	This session will present lesson-learned from the successful design, construction, and start-up of PFAS treatment systems. This information will provide support to water systems that are in the planning to comply with the anticipated final drinking water MCL for PFAS.	Joe	Stanley	Sr. Vice President	Mott MacDonald	173
6/12/2024	8:30 AM	11:30 AM	WED10	WED10		WED10 - Mastering Technology: People, Processes, and Progress	This special topic session will take attendees on a journey from analyzing current technology trends to realizing the benefits of these solutions in both the short and long term. Presenters will discuss how to make the appropriate selection for a utility, the implications of this decision, and the implementation and change management necessary to adopt these solutions.	Juan	Donoso	Director of Asset Management	Veolia	180
6/12/2024	8:30 AM	10:00 AM	WED11	WED11		WED11 - Digital Twin Application in California	From improving utility resilience, to enhancing storage and compliance, digital twins and associated technology such as AI are presented with use cases across California. Every topic presented directly applies to the current issues facing local utilities.	Peter	Martin	Client Solutions Manager		182

Session Date	Session Start Time	Session End Time	Session Code	Session	Wastewater Hours	Session Title	Session Description	Presenter First Name	Presenter Last Name	Presenter Job Title	Presenter Company	#
6/12/2024	8:30 AM	10:00 AM	WED12	WED12		WED12 - Addressing Unique Construction Challenges of Large- Scale Treatment Facilities	Construction of water treatment systems on a large scale requires addressing several unique challenges. This session provides a discussion of several case studies					187
6/12/2024	8:30 AM	10:00 AM	WED13	WED13		WED13 - Lead and Copper Communication Guidance	As every utility in North America prepares for compliance with new Lead and Copper rule requirements for lead service line inventory and replacement programs, many water providers are embracing this opportunity to build trust with their customers. Hear case studies, lessons learned, and emerging communication best practices from a geographically diverse set of utility peers.	Matthew	Junker	Public Relations Specialist	The Municipal Authority of Westmoreland County	191
6/12/2024	8:30 AM	11:30 AM	WED14	WED14		WED14 - Getting Prepared for the Lead and Copper Rule Improvements	The US EPA has proposed the Lead and Copper Rule Improvements and the sector is awaiting the final rule. In the interim systems need to begin preparations. Once the rule is finalized the time available for the tasks in the proposed rule will require that systems begin preparing to comply with the LCRI as soon as possible.	Steve	Via			196
6/12/2024	8:30 AM	11:30 AM	WED15	WED15		WED15 - Building Resiliency in Small Systems	Information on how to work toward water system resilience can be hard to come by for smaller utilities. Many small systems have a hard enough time just keeping up. This session is intended to provide listeners with what to do to gain resilience while still keeping up and with helpful examples of how other systems did it.	Bruce	Macler	Retired		203
6/12/2024	8:30 AM	11:30 AM	WED17	WED17		WED17 - Landscape Transformations for Water Efficiency	Meeting outdoor water demand is a big challenge for utilities. To reduce water use and provide for more sustainable and resilient communities, water utilities are looking to help customers transform their landscapes into ones that are less thirsty and more beautiful.					208
6/12/2024	8:30 AM	10:00 AM	WED18	WED18		WED18 - Tools for Implementing California's Sustainable Groundwater Management Act	Implementing California's Sustainable Groundwater Management Act (SGMA) requires a suite of effective tools to address the complex challenges associated with sustainable groundwater use. Geographic Information Systems (GIS) play a crucial role by providing spatial data analysis to understand groundwater basin dynamics and aid in decision-making. Groundwater modeling tools help simulate aquifer behavior, facilitating the prediction of groundwater level changes and potential impacts of management strategies. Monitoring technologies, such as sensors and satellite imagery, offer real-time data on groundwater levels and land subsidence, aiding in adaptive management approaches. Join experts as they talk about the array of technologies to help water managers with sustainable groundwater management.					215
6/12/2024	8:30 AM	11:30 AM	WED22	WED22		WED22 - Embedding DEI: Leveraging a Water Utility Manager's Guide to Community Stewardship	Join AWWA's Diversity and Membership Inclusion Committee on a deep dive into how your organizational culture can set you up for success in your community engagement goals. This session will introduce attendees to the AWWA publication 'A Water Utility Manager's Guide to Community Stewardship' and the important role it can play at their utilities, especially in the HR arena. As providers of an essential community service, utilities can leverage their assets and operations to expand their stewardship role in their communities.	Donnell	Duncan	Associate Vice President		230
6/12/2024	8:30 AM	11:30 AM	WED23	WED23		WED23 - Engendering a Modern Water Workforce	Engendering a Modern Water Workforce presents a unique opportunity to address the pressing challenges faced by the water sector while promoting gender diversity and inclusive practices. Through data-driven insights, expert perspectives, and collaborative discussions, we aim to pave the way for a more resilient, sustainable, and gender-inclusive water workforce.	Antra	Bhatt	Statistics Specialist and Researcher	UN Women	231
6/12/2024	8:30 AM	11:30 AM	WED24	WED24		WED24 - Technical Solutions to Water Challenges Across the Globe by Charting a Course to a Sustainable Water Future	Communities across the world are facing many common water challenges ranging from scarcity, flood, and poor management. This session will provide a venue for North America attendees and our overseas visitors to share lessons learned, success stories, and insights across a number of projects and geographic settings.	Norhan	Sadik	Program Analyst	World Bank Group	236
6/12/2024	10:00 AM	11:30 AM	WED25	WED25		WED25 - Treatment of Inorganics - Mn, AS, Li	The treatment of inorganic contaminants such as manganese (Mn), arsenic (As), and lithium (Li) in water often requires a tailored approach. Join experts as they discuss treatment of these inorganics.					240

Session Date	Session Start Time	Session End Time	Session Code	Session	Wastewater Hours	Session Title	Session Description	Presenter First Name	Presenter Last Name	Presenter Job Title	Presenter Company	#
6/12/2024	10:00 AM	11:30 AM	WED26	WED26		WED26 - Lead Scales in Pipes	Lead scales in pipes are particularly concerning as lead poses serious health risks, and its presence in drinking water can lead to lead poisoning. Research has been ongoing to understand the factors contributing to lead scale formation, such as water chemistry, temperature, and pipe material interactions.					244
6/12/2024	10:00 AM	11:30 AM	WED28	WED28		WED28 - Smart Water, Smart Utilities: Advanced Metering Infrastructure from Concept to Deployment	Choosing to go 100% remote is a significant expense for water utilities and the decision is not made lightly. This session examines water utilities as they grapple with ROI, risk of technology, customer impact, and the issues of having completed a meter upgrade. This session takes the attendee from the initial concept to AMI deployment.	Christopher	Tapia	Meter Service Worker	Carlsbad Municipal Water District	250
6/12/2024	10:00 AM	11:30 AM	WED29	WED29		WED29 - Applications of Machine Learning in OT System	This session offers a holistic exploration of the transformative role of machine learning in the water industry. From sustainable water resource management and effective decision-making to the integration of emerging technologies, this session provides a comprehensive overview of the implications and applications of machine learning in the context of water resource sustainability and operational optimization.	Prabhushankar	Chandrasekeran	Intelligent Water National Practice Leader, Arcadi	Arcadis	254
6/12/2024	10:00 AM	11:30 AM	WED30	WED30		WED30 - Lead POU Treatment and Lead-Free Testing Programs	This session will explore experiences with using point of use (POU) treatment options to reduce lead in drinking water and describe a lead-free testing program.	Darren	Lytle			259
6/12/2024	10:00 AM	11:30 AM	WED31	WED31		WED31 - PFAs Litigation and the MDL	This moderated discussion focusing on strategies for a resilient Colorado River will include such topics as a review of current compacts, acts, and agreements surrounding the Colorado River, and likely changes to these in 2026. A panel of experts will also discuss the legal, management, and financial aspects of such key Colorado River Basin issues as land use and planning strategies that support greater system resilience, compensated conservation and economic considerations, and trading frameworks and practices that allow for greater system flexibility in the Basin. A discussion on water reuse, desalination, and the future of water supplies in the Colorado River will also be part of the session's discussion topics.					263
6/12/2024	10:00 AM	11:30 AM	WED34	WED34		WED34 - Crisis Ripples: Safeguarding California's Waterscape from Quakes to Dam Bursts	Dive into the heart of California's water resilience with 'Crisis Ripples.' Explore cutting-edge strategies for earthquake warnings, emergency bypass pipes, fuel contingencies, and dam failure preparedness.	Jim	Wollbrinck		METISIS LLC	267
6/12/2024	10:00 AM	11:30 AM	WED37	WED37		WED37 - The Water Research Foundation Research Highlight: Occurrence and Removal of Brominated, Iodinated, and Nitrogenous DBPs	Disinfection Byproducts (DBPs) are an ongoing challenge for many water utilities. Control and removal of DBP precursors are critical for meeting regulatory and health-based treatment goals. Speakers in this session will address precursor occurrence, formation potential, and controls for brominated, iodinated, and nitrogenous DBPs.	Mary	Smith	Research Program Manager	Water Research Foundation	273
6/12/2024	10:00 AM	11:30 AM	WED38	WED38		WED38 - Transforming Communities with Assistance Programs	Water sector customer assistance programs play a crucial role in ensuring access to safe and affordable water while addressing the diverse needs of communities. They aim to enhance the overall customer experience by providing equitable access to water services, particularly for vulnerable populations facing economic challenges. Implementing data-driven solutions helps optimize resource allocation and improve the efficiency of water assistance programs. Additionally, public-private partnerships often play a key role in fostering innovation and sustainability in addressing the complex challenges associated with water access and affordability.					274
6/12/2024	10:00 AM	11:30 AM	WED39	WED39		WED39 - Emerging Local Water Leaders: Making Strides Towards an Equitable, Sustainable Water Future for Their Communities	Mid-level water utility professionals are leading the way on equitable, sustainable water management for their communities. This session will feature three award-winning emerging leaders who are building local resilience through water conservation and green infrastructure. It will also explore new ways of looking at familiar financing approaches for affordable investments at scale.	Cynthia	Koehler	Executive Director	WaterNow Alliance	278
6/12/2024	1:30 PM	3:00 PM	WED41	WED41		WED41- University Forum	Join us for the latest in academic research					289

Session Date	Session Start Time	Session End Time	Session Code	Session	Wastewater Hours	Session Title	Session Description	Presenter First Name	Presenter Last Name	Presenter Job Title	Presenter Company	#
6/12/2024	1:30 PM	4:30 PM	WED42	WED42		WED42 - Seismic Resilience: Criteria for Next-Gen Pipeline Engineering	Seismic resilience is a critical aspect of designing next-generation pipelines to withstand the impact of seismic events. Attendees will delve into innovative design strategies, material considerations, and construction techniques aimed at enhancing the seismic resilience of pipelines. The session will also address the incorporation of advanced technologies, such as real-time monitoring and adaptive systems, to dynamically respond to seismic activities. By understanding and implementing these criteria, the goal is to establish a new benchmark for pipeline engineering that ensures reliability and safety in regions prone to seismic activity.					293
6/12/2024	1:30 PM	3:00 PM	WED44	WED44		WED44 - Condition Assessment of Water Mains - The Path Forward	This session will review how condition assessment technologies evolve every year and can change the current practices in the industry. The advancements in artificial intelligence/machine learning, in-line ultrasonics, and others have expedited the updates to the M77 – Condition Assessment of Water Mains. Case studies will be presented that detail some of those advancements.	Scott	Jauch	Assistant Project Manager	HDR	298
6/12/2024	1:30 PM	4:30 PM	WED45	WED45		WED45 - Securing the Supply: Modernizing Cross-Connection Control Programs	Cross-connection control programs aim to prevent backflow of contaminated water into the public water supply by identifying and protecting against cross-connections between the public water supply and a source of contamination or pollution. A cross-connection control program is critical to ensuring the safety of drinking water systems. Learn from experts what it takes to achieve compliance, how to modernizing your existing backflow program and requirements for responding to cross-connection incidents.	Luis	Huerta		City of Sacramento Dept. of Utilities	302
6/12/2024	1:30 PM	4:30 PM	WED46	WED46		WED46 - Keys to Successful Water Treatment Plant Operation and Maintenance	This session focuses on water treatment plant operation and maintenance strategies and best practices for optimized performance. Participants will explore presentations on the importance of maintenance programs, plant start-up, and equipment upgrades highlighting the importance of both to seamless plant performance.					304
6/12/2024	1:30 PM	3:00 PM	WED47	WED47		WED47 - Communicating about PFAS and Emerging Contaminants	Although the EPA's proposed standards for PFAS are not yet approved, utilities are already monitoring the compounds. As some of these results become publicly available, utilities need to be prepared with communication plans and strategies. This section will feature experts offering guidance on how to talk about these and other emerging contaminants and how to maintain public trust.	Michelle	Clements	Public Relations Manager	Portland Water District	311
6/12/2024	1:30 PM	3:00 PM	WED48	WED48		WED48 - Are you CMMS Ready? What's Next After Selecting a Computerized Maintenance Management System	This session will cover implementing a CMMS software from initiation through change management. Including business procedures, roles and responsibilities, and creating an environment of both collaboration and accountability. We will discuss key decisions about system hierarchies, domains (drop-down menus), quality assurance/quality control processes, and workflows.	Jacob	Gardner	US Digital Analytics Lead	Arcadis	315
6/12/2024	1:30 PM	3:00 PM	WED49	WED49		WED49 - Improving Water Quality with Distribution System Modeling	Water quality modeling has many applications and benefits for assessing and managing water systems. This session will discuss water quality modeling techniques and showcase real-world examples, providing attendees with valuable insights into improving water quality for various purposes, from optimized flushing to water storage and water age.	Meg	Roberts	Distribution Systems Services Leader, Associate Vi	Hazen and Sawyer, P.C.	319
6/12/2024	1:30 PM	4:30 PM	WED50	WED50		WED50 - The Power of Design-Build Partnerships	The power of design-build partnerships lies in the integration of creativity, efficiency, and collaboration throughout the project lifecycle. By fostering a unified vision from conception to completion, design-build partnerships empower teams to navigate complex challenges with collective expertise. This session examines the outcomes of these partnerships from the viewpoints of the partners.					323
6/12/2024	1:30 PM	3:00 PM	WED51	WED51		WED51 - Lead Material Inventories and More!	This session will address lead service line inventories including assessing methods to identify unknown service line materials	Christina	Devine			325
6/12/2024	1:30 PM	4:30 PM	WED52	WED52		WED52- Stage 3 Microbial / Disinfection Byproduct Rules	Systems need to begin now to prepare for the upcoming Stage 3 M/DBP rulemaking. NDWAC recommended more reliable secondary disinfectant residual maintenance, additional organic carbon removal, increased coordination between wholesale and consecutive water systems, and increased focus on water management in buildings.					329

Session Date	Session Start Time	Session End Time	Session Code	Session	Wastewater Hours	Session Title	Session Description	Presenter First Name	Presenter Last Name	Presenter Job Title	Presenter Company	#
6/12/2024	1:30 PM	4:30 PM	WED53	WED53		WED53 - Novel Approach for Small System Planning and Management	This session presents new approaches for planning, managing, and source of supply for small water systems.	Irfan	Gehlen	Senior Engineer	Kerr Wood Leidal Assocs. Ltd.	330
6/12/2024	1:30 PM	4:30 PM	WED55	WED55		WED55 - Part 1-Planning to Save Water / Part 2- Optimizing Outdoor Water Use-Lessons Learned from Large-Scale Landscape Strategies	In the first half of this session, you will hear from speakers looking to plan for future water shortages and demands, as well as anticipating water quality challenges that could result from less use. The second half of the session will present the results of research investigating the effectiveness of strategies undertaken to adapt outdoor water use in the face of growing water scarcity and a changing climate.					336
6/12/2024	1:30 PM	3:00 PM	WED57	WED57		WED57 - The Changing Manganese Picture in California	The adverse impact that the presence of manganese (Mn) has on drinking water quality is receiving renewed attention by California regulators and drinking water utilities. The establishment of a health-based standard for Mn in Canada at a level commonly seen in treated drinking water underlies potential health concerns involving Mn. At the same time there is a growing appreciation for the many detrimental effects of Mn that has accumulated in distribution systems. An improved understanding of the implications of presence of manganese in treated water is forcing the industry to better control this contaminant.					343
6/12/2024	1:30 PM	4:30 PM	WED59	WED59		WED59 - Wildfires Are Here: Learn What Utilities Should Expect and Should Do to Respond and Recover	The most destructive, costliest, and deadliest wildfires have been recorded in recent U.S. history and these require an equally unprecedented response by water utilities. This session will share real-world lessons direct from frontline utilities impacted, offer a concept of operations plan (CONOPS) that all utilities can adopt, worker safety advice from NIOSH, and researcher discoveries.	John	Stufflebean	Director	Maui County Department of Water Supply	346
6/12/2024	1:30 PM	4:30 PM	WED60	WED60		WED60 - Innovations in Aquifer Recharge and Storage: Strategies for Sustainable Water Management	Explore initiatives and leading strategies in aquifer recharge and storage, addressing the challenges of climate change, population growth, and regulatory dynamics. This session presents a journey through diverse approaches and case studies, navigating the complexities of aquifer storage and recovery (ASR) and managed aquifer recharge (MAR) to create resilient water systems in the face of evolving water resource challenges.					351
6/12/2024	1:30 PM	3:00 PM	WED62	WED62		WED62 - The Water Research Foundation Research Highlight: Incorporating Equity Considerations into Utility Decision-Making	This session will explore different ways utilities can better incorporate equity into their decision-making process. We will take a deep dive into equity considerations of three topics: workforce, asset management planning, and affordability programs.	Sydney	Samples	Research Program Manager		355
6/12/2024	1:30 PM	3:00 PM	WED63	WED63		WED63 - Brand Building and How to Network Like a Pro	This session will help build your personal brand in the industry through networking, reputation building, increasing influence, and creating personal collateral in building relationships.	Pranjali	Kumar		Carollo Engineers	356
6/12/2024	3:00 PM	4:30 PM	WED65	WED65		WED65- How Bench- and Pilot-Testing Inform Treatment	Bench- and pilot-testing play important roles in informing water treatment processes by providing essential insights into the efficacy and feasibility of proposed treatments. Bench-scale allows researchers to analyze the fundamental aspects of a treatment method, such as chemical reactions and removal efficiencies. Pilot-scale testing, on the other hand, bridges the gap between laboratory studies and full-scale implementation, offering a more realistic assessment of how a treatment process performs under operational conditions. These testing phases help identify potential challenges, optimize parameters, and validate the scalability of treatment technologies, ultimately guiding decision-makers in selecting the most effective and cost-efficient solutions for large-scale water treatment applications.					359
6/12/2024	3:00 PM	4:30 PM	WED66	WED66		WED66 - Targeting PFAS with Destructive Removal Technologies	Destroying PFAS often involves advanced treatment processes, such as oxidation or thermal destruction, designed to break down PFAS compounds into non-hazardous byproducts. The exploration of destructive technologies is essential to providing a comprehensive approach to PFAS remediation and containment efforts. As the scientific community continues to advance in this field, these technologies represent a vital frontier in the ongoing battle against PFAS contamination.					363

Session Date	Session Start Time	Session End Time	Session Code	Session	Wastewater Hours	Session Title	Session Description	Presenter First Name	Presenter Last Name	Presenter Job Title	Presenter Company	#
6/12/2024	3:00 PM	4:30 PM	WED67	WED67		WED67 - Leveraging AI for W/WW System Analysis and Enhancement	Learn about applying Artificial Intelligence with four examples of AI application in the Water Industry. These case studies will share how AI was applied to various water systems and the benefits provided.	Kedric	Szana		Jacobs	367
6/12/2024	3:00 PM	4:30 PM	WED68	WED68		WED68 - Using a Digital Twin to Improve Water Distribution System O&M	One of the most widely-used areas for digital twins in the water sector is the water distribution network. This session will present three utility examples of water distribution digital twins from various perspectives. Come prepared with tough questions, as this is an interactive session with audience Q&A for the speakers.	James	Cooper	Global Director	Arcadis	371
6/12/2024	3:00 PM	4:30 PM	WED69	WED69		WED69 - Conducting Lead Outreach for Daycare and Schools	Among the most sensitive and challenging aspects of the LCRR for utility providers is the mandate to partner with daycares and schools on lead testing. Engaging with schools and daycares as subject matter experts on water quality and supporting them as they prepare to communicate with the public offers a pivotal opportunity for North American water utilities to foster trust among those they serve. Hear the perspectives of regulators, consultants, and utilities on their strategies and tactics to effectively rise to the occasion of these new regulations.	Mandy	Cawby	Director of Customer Relations	Water District No. 1 of Johnson County	376
6/12/2024	3:00 PM	4:30 PM	WED72	WED72		WED72 - Security and Emergency Response in California	Experts from water industry will go over how they navigate the waters of security and emergency management, ensuring California stays afloat in the face of challenges.	Jim	Wollbrinck		METISIS LLC	382
6/12/2024	3:00 PM	4:30 PM	WED73	WED73		WED73 - Cyanobacteria/Harmful Algal Blooms Monitoring, Detection and Prediction	Monitoring, detecting, and predicting cyanobacteria or harmful algal blooms (HABs) are critical aspects of safeguarding water quality and public health. Continuous surveillance, early detection, and predictive modeling further enhances the ability to anticipate and manage the occurrence of HABs, allowing for proactive measures to protect water resources and prevent adverse health effects. As climate change and anthropogenic activities contribute to the increased frequency and intensity of HABs, the development and refinement of monitoring, detection, and prediction strategies play a pivotal role in effective water management practices.	Polly	Barrowman		Yokogawa Fluid Imaging	384
6/12/2024	3:00 PM	4:30 PM	WED74	WED74		WED74 - Strategies for Water Infrastructure Funding	The renewal, replacement, and protection of aging water and wastewater infrastructure is the number one issue facing our industry. At the root of this challenge is the ability of systems to provide sufficient funding for these needed infrastructure improvements that can withstand the conditions of tomorrow. Join experts as they discuss three different approaches to infrastructure funding.					388
6/12/2024	3:00 PM	4:30 PM	WED75	WED75		WED75 - How Federal Water Infrastructure Financing Programs Address Affordability and Assist Disadvantaged Communities	This session will provide an overview of each of several federal water infrastructure funding programs at U.S. Environmental Protection Agency and U.S. Department of Agriculture, including borrower and project eligibilities. Presenters will also describe how these funding programs benefit underserved and disadvantaged communities and accelerate water infrastructure investments.	Kiri	Anderer	Sr. Environmental Engineer	U.S. EPA	392
6/12/2024	10:00 AM	11:30 AM	PST01	PST01		PST01 - Fresh Ideas Poster Session	The future of water is here! Join the best and the brightest from AWWA's Sections. These students and young professionals won their Section poster competitions to attend and compete at ACE24.					397
6/12/2024	1:30 PM	3:00 PM	PST02	PST02		PST02 - Wednesday Poster Session	Take advantage of this great opportunity to interact directly with presenters at the poster sessions being held in the Exhibit Hall. The poster presenters will be present for the full duration of each poster session to provide attendees with the opportunity for in-depth discussions about their topic. Topics Covered in this session - Intelligent Water (IW) and Water Resources (WR)					398

Session Date	Session Start Time	Session End Time	Session Code	Session	Wastewater Hours	Session Title	Session Description	Presenter First Name	Presenter Last Name	Presenter Job Title	Presenter Company	#
6/13/2024	11:45 AM	12:45 PM	DROP	DROP		The Last Drop	Water 2050 established a vision for a sustainable and resilient future for the water community. The diverse contributors to this initiative developed nearly 50 recommended actions for the water community to implement to transform this ambitious vision into reality – with recommendations grouped under 5 strategic themes, including Sustainability & Resilience. The Last Drop is dedicated to exploring how the water community can advance meaningful change to create our Water 2050 future. Join us for an exploration of the future of water, featuring diverse panelists in engaging conversation with AWWA’s Director of Engineering & Technical Services, Barb Martin, covering future priorities, taking action, collaboration and partnerships, and breaking barriers to ensure a secure, sustainable, affordable, resilient, and innovative water future for all. The Last Drop provides attendees with the opportunity to join the conversation about Water 2050 and share their own thought-provoking questions about the future of water. This session is sure to spark your imagination and leave you hopeful for the future of the water community!	Barbara	Martin	Director ETS	American Water Works Association	423
6/13/2024	8:30 AM	10:00 AM	THU01	THU01		THU01 - The Water Research Foundation Research Highlight: Advancements and Applications of UV LED Technology for Water Treatment	This session will offer an in-depth exploration of three ongoing WRF research endeavors focused on assessing the practicality and potential impact of utilizing ultraviolet light emitting diode (UV LED) technology in water treatment. The primary focus of this session is to evaluate the feasibility of integrating UV LED systems within water treatment processes. This involves analyzing the effectiveness of UV LED irradiation in mitigating Legionella, reducing biofilm formation, and enhancing water quality.	Grace	Jang	Research Manager	Water Research Foundation	424
6/13/2024	8:30 AM	10:00 AM	THU02	THU02		THU02 - University Forum - Advances Process Optimization	Join us for the latest in academic research.					426
6/13/2024	8:30 AM	10:00 AM	THU04	THU04		THU04 - The Challenges of Condition Assessment - Promising Solutions an Success Stories	This session will highlight some of the challenges associated with performing condition assessment and management of a water system and discuss recent strategies and case studies for how those challenges were overcome.					434
6/13/2024	8:30 AM	11:30 AM	THU05	THU05		THU05 - R&D Project: CIPP Lining of Asbestos Cement Pipe for Seismic Resiliency and Rehab of Aging Pressure Pipe Infrastructure	This panel will introduce this R&D project’s goals and objectives, and engage utility owners on the challenges and concerns associated with improving their aging ACP infrastructure via CIPP. The discussion will help refine the outcomes needed for the project, helping utility owners, who are often working with limited budgets and options, to implement researched proven solutions for aging ACP.	Joy	Eldredge	Deputy Utilities Director	City of Napa	438
6/13/2024	8:30 AM	11:30 AM	THU06	THU06		THU06 - Steel Tanks, Water Meters, and Sodium Hypochlorite for Chlorine Dioxide Production: New and revised AWWA standards	This session highlights the release of new AWWA Standards and Manuals on steel tanks, water meters, and sodium chlorite as a precursor for chlorine dioxide production.	Andrew	Chastain-Howley		Black & Veatch	439
6/13/2024	8:30 AM	11:30 AM	THU07	THU07		THU07 - Safe by Design: Integrating Safety into the Work Environment	Workplace safety involves the establishment of safety protocols, training programs and the implementation of effective communication channels for reporting and addressing safety concerns. Leadership plays a crucial role in fostering a safety culture, where employees are actively involved in safety initiatives, and continuous monitoring and improvement strategies are in place to adapt to changing work conditions and emerging risks. Ultimately, a commitment to workplace safety contributes to a secure and healthy work environment, promoting employee well-being and organizational success.					444

Session Date	Session Start Time	Session End Time	Session Code	Session	Wastewater Hours	Session Title	Session Description	Presenter First Name	Presenter Last Name	Presenter Job Title	Presenter Company	#
6/13/2024	8:30 AM	11:30 AM	THU08	THU08		THU08 - Getting the Most out of your PFAS Bench Testing	As water utilities across the country are grappling with the proposed National Primary Drinking Water Regulation and whether treatment changes will be needed for them to stay in compliance, many projects are being rolled out both to better screen best available technologies for PFAS treatment and understand how much these potential solutions will cost. Bench-scale methods to collect and utilize information regarding the efficacy of treatment options are an attractive first step for water systems given the comparatively low cost to perform, and rapid accessibility of results compared to pilot or full-scale trials. The craft of designing, performing, and interpreting bench tests is developing rapidly, and water utilities, consulting engineers, and the research community could all stand to benefit from effective sharing of potentially meaningful and cost-saving insights by the many parties currently striving to solve the problem of PFAS in drinking water.	Issam	Najm	President	Water Quality & Treatment Solutions	450
6/13/2024	8:30 AM	11:30 AM	THU09	THU09		THU09 - Generative AI for Water: A Hands-On Dive	This interactive session introduces water practitioners to the burgeoning realm of Language Models (LLMs) and Generative AI, showcasing their growing significance in water management. Through a blend of insightful presentations and hands-on roundtable discussions, attendees will explore customized LLMs, gaining practical insights into leveraging these technologies for water challenges.	David	Lynch	CEO	Klir	456
6/13/2024	8:30 AM	10:00 AM	THU10	THU10		THU10 - Finding Efficiencies with Digital Twins	Three examples of real applications are presented focused on applying digital twin intelligent water technology to pumping, storage, and operations of water distribution systems.	James	Cooper	Global Director	Arcadis	460
6/13/2024	8:30 AM	10:00 AM	THU11	THU11		THU11 - Can't Stop. Won't Stop. Maintaining Plant Operations During Major Upgrades	This session will present unique solutions and lesson-learned from making major WTP modifications while effectively maintaining water supply to meet system demands.	Mark	White	Drinking Water Practice Leader	CDM Smith	464
6/13/2024	8:30 AM	10:00 AM	THU12	THU12		THU12 - Lead and Corrosion Control Measurement Methods	This session will present methods and approaches to assess corrosion control.	Ian	Robinson			468
6/13/2024	8:30 AM	11:00 AM	THU13	THU13		THU13 - Preparing for Per- and Polyfluoroalkyl Substance Regulations	The PFAS drinking water standard and CERCLA Hazardous Substance designation for PFOA and PFOS has significant implications for drinking water systems. This session explores the current state of PFAS regulations and treatment options for PFAS and PFAS contaminated waste streams.	Chris	Moody	Regulatory Technical Manager		472
6/13/2024	8:30 AM	10:30 AM	THU16	THU16		THU16 - Leveraging Customer Portals for Tracking and Engagement	This session will describe how utilities can use AMI and associated portals to track water use through their utility operations and engage the consumers to provide them with more information on how they are using water.					475
6/13/2024	8:30 AM	11:30 AM	THU18	THU18		THU18 - Tackling Hexavalent Chromium Release, Treatment and Disposal	In 2022 California proposed a Maximum Contaminant Level for hexavalent chromium of 10 ppb, which is expected to take effect in 2024. This session will discuss cost of compliance, and experience with treatment methods.	Tim	Worley			483
6/13/2024	8:30 AM	11:30 AM	THU21	THU21		THU21 - The Latest and Greatest in Microplastics	Microplastics are an important emerging contaminant, particularly in California, which is implementing a state-wide monitoring program for drinking water systems. However, many critical questions remain the subject of research. This session focuses on key updates with respect to our understanding of health risks, treatment, customer communications.	Brent	Alspach	VP and Director of Applied Research	Arcadis	493
6/13/2024	8:30 AM	10:00 AM	THU22	THU22		THU22 - Staying Ahead of the Games	The way customers want to receive and hear updates from their utilities continues to evolve. Utility communicators need to know the latest strategies and approaches to engage a distracted public. This section will feature a variety of communications best practices from across the country.	Michelle	Zrodowski	Chief Public Affairs Officer	Great Lakes Water Authority	500
6/13/2024	8:30 AM	11:30 AM	THU23	THU23		THU23 - Leveraging Data, Science, Collaboration and Federal Funding to Advance DEI	Delivering high quality water means you need the highest quality people, data, and solutions. Learn from utilities, regulators, consulting engineers, and academic researchers on how incorporating DEI led to better service outcomes and a stronger workforce.					505

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6/13/2024	8:30 AM	10:00 AM	THU24	THU24		THU24 - Investing in Workforce Development	Implementing targeted workforce development programs can become a low-cost/high-return investment. A well-developed workforce is better equipped to meet evolving industry demands, positioning the utility for long-term success. Ultimately, investing in workforce development is an investment in the human capital that propels innovation, strengthens organizational resilience, and drives sustainable growth.					512
6/13/2024	10:00 AM	11:30 AM	THU27	THU27		THU27 - Using the Envision Sustainable Infrastructure Framework to Transform our Water Future	Water scarcity issues are escalating globally, and federal rules are reflecting urgency to implement solutions. The?Envision Sustainable Infrastructure framework and related tools, developed by the Institute for Sustainable Infrastructure are helping water infrastructure projects assess how to meet climate resiliency global challenges, help Transform our Water Future and meet Water 2050 goals.	Justin	Waples	Civil Engineer	Central Contra Costa Sanitary District	522
6/13/2024	10:00 AM	11:30 AM	THU27	THU27		THU27 - Using the Envision Sustainable Infrastructure Framework to Transform our Water Future	Water scarcity issues are escalating globally, and federal rules are reflecting urgency to implement solutions. The?Envision Sustainable Infrastructure framework and related tools, developed by the Institute for Sustainable Infrastructure are helping water infrastructure projects assess how to meet climate resiliency global challenges, help Transform our Water Future and meet Water 2050 goals.	Colin	Averill	Civil Engineer	City of Long Beach Public Works, Stormwater	523
6/13/2024	10:00 AM	11:30 AM	THU27	THU27		THU27 - Using the Envision Sustainable Infrastructure Framework to Transform our Water Future	Water scarcity issues are escalating globally, and federal rules are reflecting urgency to implement solutions. The?Envision Sustainable Infrastructure framework and related tools, developed by the Institute for Sustainable Infrastructure are helping water infrastructure projects assess how to meet climate resiliency global challenges, help Transform our Water Future and meet Water 2050 goals.	Melissa	Wu	Project Manager	Jacobs	524
6/13/2024	10:00 AM	11:30 AM	THU27	THU27		THU27 - Using the Envision Sustainable Infrastructure Framework to Transform our Water Future	Water scarcity issues are escalating globally, and federal rules are reflecting urgency to implement solutions. The?Envision Sustainable Infrastructure framework and related tools, developed by the Institute for Sustainable Infrastructure are helping water infrastructure projects assess how to meet climate resiliency global challenges, help Transform our Water Future and meet Water 2050 goals.	Anthony	Kane	CEO	Institute for Sustainable Infrastructure	525
6/13/2024	10:00 AM	11:30 AM	THU28	THU28		THU28 - Utility Perspectives on Asset Management Success	This session includes Utility Managers discussing their Asset Management Program success stories during Implementation. The session provides a valuable opportunity for participants to learn from real-world examples and best practices in asset management within the utility sector.					529
6/13/2024	10:00 AM	11:30 AM	THU29	THU29		THU29 - OT Systems for Resiliency, Sustainability, and Emergency Response	Explore cutting-edge approaches to enhance the resilience, sustainability, and emergency response capabilities of water systems in in this session. Topics cover innovative strategies, such as migrating modeling platforms to the cloud, upskilling staff, implementing digital resilience and response systems, and leveraging technology for accurate water data management. Discover how organizations are advancing in operational technology to address challenges, improve system reliability, and ensure robust emergency preparedness in the ever-evolving landscape of water resource management.	Sri	Kamojjala	Senior Civil Engineer	Las Vegas Valley Water District	533
6/13/2024	10:00 AM	11:30 AM	THU30	THU30		THU30 - Water Distribution Modeling in California	Water distribution models are actively being developed and used by utilities throughout California for a variety of applications. This session provides case studies from local California utilities and how these models are being utilized to advance planning and operations.	Melissa	Brunger	Associate	Freese and Nichols, Inc.	538
6/13/2024	10:00 AM	11:30 AM	THU31	THU31		THU31 - Unique Approaches for Delivering Distribution Projects	The Cascade Water Alliance Program, a century-old \$350 Million Project in Montreal, and the Lanham Station Road Water Main Replacement Project were each faced with difficult challenges. Each team focused on creative solutions to develop unique approaches to the planning, design and construction aspects of each project. The results were extremely positive including the tallest reservoir of its kind in the Pacific Northwest, an AWWA Landmark Award-winning project, and a pioneering initiative offering a blueprint for more efficient and cost-effective water main replacement in the future.	Trooper	Smith		Freese and Nichols	542

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6/13/2024	10:00 AM	11:30 AM	THU32	THU32		THU32 - LCR Compliance Sampling	This session will explore LCR compliance questions concerning sampling.	Meg	Roberts	Distribution Systems Services Leader, Associate Vi	Hazen and Sawyer, P.C.	546
6/13/2024	10:00 AM	11:30 AM	THU34	THU34		THU34 - Checking in on PFAS: A Mid-2024 Update of PFAS Related Litigation, Treatment & Funding Developments	This interactive session between legal, regulatory, and water utility experts focuses on updating attendees on the status of PFAS litigation relating to public water suppliers that is pending across the country. Moderator and panelists will also review key PFAS regulations at the state and federal level and their implications for public water suppliers, and explore and explain various sources and uses of PFAS funds - - from grants to loans to settlement monies.	Ashley	Campbell		Sher Edling, LLP	550
6/13/2024	10:00 AM	11:30 AM	THU35	THU35		THU35 - Progressive Tactics to Mitigate Non-Point Sources of Pollution	This session showcases progressive tactics to mitigate non-point sources of pollution, featuring innovative approaches from diverse regions. From Appalachia's farmers leading source water protection efforts to the strategic implementation of green infrastructure for sewer overflow mitigation, and the economic and environmental benefits of riparian buffers in urban water production. Attendees will gain insights into practical solutions, unexpected benefits, and strategic methodologies, contributing to the broader understanding of sustainable water management practices and pollution reduction strategies.					551
6/13/2024	10:00 AM	11:30 AM	THU36	THU36		THU36 - The Business Case for Water Affordability: A Quantitative Approach	Utilities' concerns about the cost of providing low-income discounts have inhibited the adoption of robust, local water affordability programs. However, low-income discounts can actually provide a net financial benefit to the utility and to its ratepayers as a whole. Attendees will learn how to quantify those benefits to help build support for adopting new utility-level affordability programs.	Tony	Searls	Superintendent, Commercial Services	Greater Cincinnati Water Works	555
6/13/2024	10:00 AM	11:30 AM	THU37	THU37		THU37 - Career Builder: Tools to Get Ahead	This session review real-life examples of young professionals (YPs) leveraging available tools to grow and advance their career meaningfully, ranging from leading through local and international service work, sharing the principles of project management that can benefit all, and reviewing a case study of a personalized YP program facilitated by Walnut Valley Water District in California.	Brian	Van Nortwick		American Water	559
6/13/2024	1:30 PM	3:00 PM	THU38	THU38		THU38 - Recent Developments in Membrane Research	Recent developments in membrane research have seen significant strides in the design and fabrication of advanced materials with enhanced separation properties. Innovations in nanotechnology and materials science have enabled the development of next-generation membranes, exhibiting improved selectivity, permeability, and durability. Join experts as they discuss the novel materials and application of membranes showcasing their potential for contaminant removal.	Chandra	Mysore	Vice President & US South Regional Lead	Jacobs	563
6/13/2024	1:30 PM	3:00 PM	THU39	THU39		THU39 - Climate Change Adaptation - Resilience, Preparation Efforts	Climate change adaptation research in drinking water utilities seeks to improve comprehension of its impact on system reliability. Specifically, studies on solar-driven desalination, the resilience of drinking water treatment technology in the aftermath of severe wildfires, and the effects of fire on water treatment systems. The findings provide valuable insights for enhancing the reliability and sustainability of drinking water systems in response to changing environmental conditions.	Kenan	Ozekin	Sr. Research Manager	Water Research Foundation	567
6/13/2024	1:30 PM	3:00 PM	THU40	THU40		THU40 - Resilient Infrastructure Solutions for Storm-Prone Areas	Demand Driven Distribution combines pumps, intelligent controls and monitoring solution to form a unique management system to save energy, save water, and save piping infrastructure. City of Houston's Northeast Water Purification Expansion adopted resilient microgrids powered by underground natural gas, allowing uninterrupted operation in a storm prone area. Florida Department of Emergency Management disaster response after Category 5 Hurricane Ian, and their successful approach to emergency restoration of services among nine water and wastewater utilities in Lee County.					571
6/13/2024	1:30 PM	4:00 PM	THU42	THU42		THU42 - Pipe, Hydraulics, Valves, and Water Conservation: New and revised AWWA Standards	This session highlights the release of new AWWA Standards and Manuals on PVC pipe, applied hydraulics, valves and copper fittings, and water conservation & efficiency in urban water utilities.	Paul	Olson	Senior Manager of Standards	American Water Works Association	575

Session Date	Session Start Time	Session End Time	Session Code	Session	Wastewater Hours	Session Title	Session Description	Presenter First Name	Presenter Last Name	Presenter Job Title	Presenter Company	#
6/13/2024	1:30 PM	3:00 PM	THU43	THU43		THU43 - Advancing the Science of PFAS	Utilities are exploring novel analytical techniques and AI to detect and quantify the presence of PFAS compounds, enabling a more comprehensive assessment of system contamination. Advancements in full-scale treatment are also providing lessons-learned and a rethink. Join us for a thoughtful session on the how, where and why of PFAS are investigated.					576
6/13/2024	1:30 PM	4:30 PM	THU44	THU44		THU44 - War Stories: Best Practices and Lessons Learned From the Front Lines of Digital Transformation	This special topic session focuses on how delivering digital projects differs from delivering traditional engineering planning and design projects, and associated best practices and lessons learned from the utilities projects of focus in the special session.	Nass	Diallo	Engineering Division Manager	Las Vegas Valley Water District	580
6/13/2024	1:30 PM	3:00 PM	THU45	THU45		THU45 - AI In The Water Sector...The Good, The Bad & The Ugly	Dive into the future with 'AI in Water: Matrix, Oracle or Terminator...Let's Explore' Explore the pros and cons of AI applications, from optimizing resource management to tackling challenges. Join us for an insightful session on navigating the dynamic waters of AI in the industry!	Cris	Perez	Dir. of Tech. Services	Santa Clarita Valley Water Agency	585
6/13/2024	1:30 PM	3:00 PM	THU46	THU46		THU46 - Hydraulic Modeling for Proactive Planning	Water distribution modeling is a critical tool in effective planning for water utilities. Modeling discussions during this session will include advanced techniques and case studies that will provide valuable insights into optimizing water distribution systems for sustainable urban development.	Matthew	Huang	Principal Planning Engineer, Associate Vice Presid	Carollo Engineers	586
6/13/2024	1:30 PM	3:00 PM	THU47	THU47		THU47 - Eureka! Advanced Treatment Innovation Leading the Way to Water 2050	Innovation in technology and treatment techniques are leading the way to meet the challenges of Water 2050. This session provides case studies using innovation with various advanced treatment technologies to successfully address current and emerging water challenges.	Jennifer	Osgood		CDM Smith	590
6/13/2024	1:30 PM	4:00 PM	THU48	THU48		THU48 - Get the Lead Out	This session will explore programs to remove lead service lines.	Simoni	Triantafyllidou			594
6/13/2024	1:30 PM	4:30 PM	THU49	THU49		THU49 - Treatment Complexities of Small Systems	Novel treatment techniques for small systems will be discussed in this session. Discussion of treatment to meet primary requirements to challenging contaminants like PFAS, nitrate and DBPs.	Stephanie	Elliott			600
6/13/2024	1:30 PM	3:00 PM	THU50	THU50		THU50 - Saving Water in Utility Operations	Water conservation and efficiency are not only needed on the customer side of the meter. Utilities can also look for opportunities to save water in their own operations – saving resources, money, and setting a good example for the community.					607
6/13/2024	1:30 PM	4:00 PM	THU52	THU52		THU52 - Source Water and Distribution System Challenges and Solutions in California	California faces unique challenges in treating source water and maintaining distribution system water quality in the face of severe drought. Proposed changes in California's regulatory environment for manganese also present utilities with new treatment and distribution system management challenges. This session will update participants on California's regulatory activities, provide guidance on water main flushing as a distribution system management strategy, and discuss strategies for treating and managing water quality concerns during drought, including issues with cyanobacteria, nitrification, and taste and odor.	Kambria	Tiano	Associate Engineer	West Yost Associates	614
6/13/2024	1:30 PM	3:00 PM	THU54	THU54		THU54 - Building Water Supply Reliability through Integrated Water Supply Strategies	The session will highlight integrated water supply strategies as part of an overall program to secure a diversified portfolio of water supplies for the future. Ensuring a reliable, resilient and sustainable water supply is becoming more challenging due to climate change, seismic risks and increasing regulations. Attendees will explore case studies for California and Florida to gain insights into practical solutions, benefits, and strategies for sustainable water planning.					617
6/13/2024	1:30 PM	4:30 PM	THU55	THU55		THU55 - Advancements in Water Reuse: Projects, Processes, and Partnerships	This session delves into technical aspects and innovations in water reuse. Explore projects ranging from direct potable reuse (DPR) implementations to advanced water purification processes. Understand the challenges faced and solutions developed by utilities, emphasizing collaborative partnerships for sustainable water practices. Gain insights into feasibility studies, treatment technologies, and operational strategies, offering a technical deep dive into the realm of water reuse.					621

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6/13/2024	1:30 PM	3:00 PM	THU57	THU57		THU57 - Approaches to Water Utility Planning	Today's municipal water utilities are facing unprecedented challenges ranging from current and emerging regulatory drivers, climate change impacts, and affordability challenges while striving to achieve the levels of service that customers expect. In particular, the regulations are continually evolving with expansions in science and technology leading to a diverse set of requirements that impact drinking water, wastewater, stormwater, and reuse utilities. Utilities are exploring means to meet multiple objectives while prioritizing equity and health concerns, regulatory obligations, and affordability constraints to provide higher-value investments for their customers.					628
6/13/2024	1:30 PM	3:00 PM	THU58	THU58		THU58 - Current Hot Topics: Desalination, AI, and Equity in LSL Replacement	Young Professionals (YP) actively working in the areas of the industry that are evolving at lightning speed – desalination, lead service line replacement, and artificial intelligence (AI) will present on the insights gained from their experiences.	Hayden (Hei Tsun)	Tse		CDM Smith	632
6/13/2024	3:00 PM	4:30 PM	THU59	THU59		THU59 - Ozone Biofiltration Process for Taste and Odor Control	Three treatment plants, one problem, and a solution found in an ozone biofiltration process.					636
6/13/2024	3:00 PM	4:30 PM	THU61	THU61		THU61 - Managing PFAS Issues from Source to Operations	Effectively managing PFAS issues from source to operations requires a comprehensive and integrated approach across the entire lifecycle of these substances. Learn from the experts as they share challenges, victories and lessons learned from the discovery of PFAS contamination, through changing Health Advisory Levels and public notices, to new sampling programs and treatment strategies, to securing funding and preliminary design for PFAS removal processes.					643
6/13/2024	3:00 PM	4:30 PM	THU62	THU62		THU62 - Using Digital Twins to Improve Water Treatment and Reuse	Advanced technologies such as digital twins, AI, and ML are being used to improve monitoring, control, and operator training for water treatment. Applications presented represent traditional water treatment and direct potable reuse.	Peter	Martin	Client Solutions Manager		646
6/13/2024	3:00 PM	4:30 PM	THU63	THU63		THU63 - Next Level Strategies for Robust Source Water Protection Planning	This session delves into next-level strategies for robust source water protection planning, featuring real-world experiences and scientific approaches. From crisis management and emergency response in the aftermath of a train derailment in Ohio to the development of a regional Source Water Protection Program in Sacramento, and a comprehensive vulnerability assessment in Quebec City considering surface-groundwater interactions. Attendees will gain valuable insights into practical responses, collaborative programs, and innovative scientific methods shaping the future of source water protection planning.					650
6/13/2024	3:00 PM	4:00 PM	THU64	THU64		THU64 - Public Engagement Strategies and Best Practices	This panel discussion will focus on why public engagement is important, best public engagement management practices that are adaptable and affordable for utilities of all sizes and budgets, determining meaningful key performance indicators, and how to start the process.	Darcy	Burke	CEO	Water Mark Associates	653
6/13/2024	3:30 PM	5:00 PM	THU65	THU65		THU65 - Chloraminated Distribution Systems	Chloramines have been employed as an effective disinfectant in water treatment processes since the early 20th century and their adoption rate has witnessed a notable uptick. As more systems in the west are faced with concerns such as drought, disinfection byproduct formation, resiliency, and disinfectant stability, chloramine use has become an advantageous and viable alternative to free chlorine.					654
6/13/2024	3:30 PM	5:00 PM	THU66	THU66		THU66 - Saltwater at the Doorstep: Assessing and Solving Seawater Intrusion	As sea levels rise and coastal populations expand, the risk of seawater intrusion intensifies, jeopardizing the quality and quantity of potable water. Mitigating seawater intrusion requires a comprehensive understanding of local hydrogeological conditions, coupled with effective management strategies such as the controlled extraction of freshwater and the implementation of barriers to prevent saltwater intrusion. Addressing this complex challenge is crucial for ensuring water security in coastal communities and necessitates sustainable water management practices to safeguard this vital resource.					658

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6/13/2024	1:30 PM	3:00 PM	THU68	THU68		THU68 - Exploring the Opportunities and Challenges of Water Markets in the West	Water markets or voluntary transfers offer an opportunity to allow water users to optimize economic, environmental, and water supply reliability benefits to the parties. Transfers from uses of lower to higher priority water users can provide a win-win if third-party impacts are identified and mitigated up front. On this panel three experts will discuss water markets in the western prior appropriation states as well as the challenges facing widespread adoption of the process.					661