

2018 WIAWWA Technical Program, September 12-14

Wednesday, September 12, 2018

Time	Track A Hall of Ideas Room E	Track B Hall of Ideas Room F	Track C Hall of Ideas Room G	Exhibit Hall/ Additional Activities
7:30 am to 8:45 am	Registration and Breakfast Join us for breakfast in the Grand Terrace			
8:45 am to 10:00 am	Opening Session – Hall of Ideas Room H & I Welcome: Rob Michaelson, Chair, Wisconsin Section AWWA Keynote Address: State of the Water Industry – AWWA Survey <i>Kurt Vause, Chair of the Water Utility Council</i> Mr. Vause relocated to Montana and now serves as Resident Engineer-in-Charge for the Town of Stevensville, Montana, executing work under AWWA's, ASCE's and Engineers without Borders Community Engineering Corps program. Prior to that he served from 1998 - 2017, first as the Engineering Division Director of Anchorage Water Wastewater Utility, then Special Projects Director providing planning, integration, and execution of strategic utility initiatives. These duties offer him a unique perspective on challenges facing our small and mid-size water systems both in urban and rural settings. In addition, Mr. Vause currently serves on the American Water Works Association's Water Utility Council as its Chair, having served the Council as its Regulatory and Legislative Committee Chair over the past several years. In 2017, he also assumed the duties of Chair of AWWA's National Asset Management Committee. He also served on the 2012 International Water Association - Water Supply Association of Australia Asset Management Best Practices Benchmarking Project Steering Committee, in addition to being a contributor to multiple AWWA activities at a national and Section level. Mr. Vause is also co-founder of StreamlineAM, LLC an Alaskan-based consulting service dedicated to Utility Management, Asset Management and Engineering for the water sector. WIAWWA Awards: Rob Michaelson, Chair, Wisconsin Section AWWA			Exhibit Hall Setup Tuesday 6 pm to 9 pm Wednesday 8 am to 1 pm
	Wisconsin Water for the World: Project Update <i>John Andersen and Committee Members</i>	How to Earn Public Buy-in to Replace Aging Infrastructure <i>Ed Maxwell and Andrew Behm, Ruekert & Mielke</i> Although the need for infrastructure upgrades are obvious from a utility's perspective, the public often doubts that it needs them. Hence, public officials will refuse to support the upgrades, even though they know they're postponing the inevitable at great cost to those they represent. Learn how to engage the public, overcome the vocal minority who always seems to show up to oppose upgrades, and ultimately garner support so that reliable, high-quality service continues.	City of Janesville Water Utility - Water Main Lining <i>Mark Kolczaki, Baxter & Woodman, Inc. and Dave Botts, City of Janesville Water Utility</i> The Janesville Water Utility experienced breaks in two water mains crossing the Rock River. With two river crossings out of service the Water Utility had limited capacity in the remaining water mains crossing the river and something had to be done. Given the location of the existing water mains cured-in-place technology was a cost-effective method for pipeline repair. This presentation will detail the challenges and innovative engineering solution from design through construction.	
SESSION W1 10:00 am to 10:30 am				

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<p>SESSION W2</p> <p>10:30 am to 11:00 am</p>	<p>Predicting a Utility's financial future: to boldly go where no manager has gone before</p> <p><i>Joe Trueblood, Sheboygan Water Utility</i></p> <p>Managing the interplay of revenues, expenses, and cash position is a challenge for a utility manager. Yearly changes in key financials can be straightforward to predict. However, as utilities embark on larger projects with new debt, future outcomes can be more difficult to predict for years into the future. Using simple spreadsheet tools, a utility can predict various financial scenarios into the future. By evaluating these scenarios, a utility manager can provide better information to all shareholders and avoid unexpected outcomes.</p>	<p>Addressing Single Point Failures in Electrical Systems</p> <p><i>Michael Stohl, Donohue & Associates</i></p> <p>Electrical distribution systems within pump stations and treatment plants vary due to a number of factors including physical location and local standards, available space for equipment, end-user equipment preferences but most notably pumping capacities and the amount of acceptable down time. Vulnerabilities within electrical distribution systems can be exposed as the system is expanded to accommodate station and plant growth.</p>	<p>Cost-effective Conservation Measures</p> <p><i>Ed Maxwell, Ruckert & Mielke Denise Schmidt, WI PSC</i></p> <p>For a water utility, promoting conservation might seem like a self-defeating endeavor. After all, who wants to reduce their revenue? However, there are ways to promote conservation that don't impair a utility's revenue stream. Learn which cost-effective measures would be best for your utility at this session.</p>	<p>Drinking Water Taste Test</p> <p>10:30 to 11:30 Hall of Ideas J</p> <p>Calling All Utilities!</p> <p>Please bring your water samples for a chance to be declared as having the best tasting water in the State!</p>
<p>SESSION W3</p> <p>11:00 am to 11:30 am</p>	<p>Improving Capacity with Water System Partnerships</p> <p><i>Cathy Wunderlich, WI DNR</i></p> <p>This presentation will cover the types of public water system (PWS) partnerships, as well as the benefits and cons to each type. Developing PWS partnerships can improve a utility's technical, managerial and financial capacity.</p>	<p>Value Added Cash Reserve and Investment Policies</p> <p><i>Dan LaHaye, Baker Tilly</i></p> <p>Deciding how much cash your municipal utility should have or what to do with cash you have can be difficult. This session will discuss benchmarks for reserves and best practices in developing reserve and investment policies.</p>	<p>What to Consider When Doing a Water Meter Change-Out Project</p> <p>11:00 am to Noon</p> <p><i>Brad Simms, Dakota Supply Group</i></p> <p>What to consider when looking at a water meter change-out project along with the differences between AMR drive-by versus AMI fixed network systems. Presentation covers many of the topics to consider prior to choosing a vendor.</p>	

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SESSION W4 11:30 am to Noon	IT Controls for the Non-IT Expert <i>Amy Diestler, Baker Tilly</i> Daily use of computers and other technology demands that utility management consider the important of IT security. Explore the importance of IT controls often documented during an audit as well as best practices. Areas of discussion include passwords, access policies and limitations, backups, storage, physical access and more.	The State to State Domino Effect – World’s Largest Level 1 Validated Water Audit Data Set <i>Steve Cavanaugh, P.E. Cavanaugh & Associates, P.A.</i> This presentation will highlight how US states are navigating the political, regulatory, and funding landscape of water loss control to assure industry adoption and sustained increases in utility technical, financial, and managerial capacity. Attendees will learn how California Water Loss Tap participants learned water auditing best practices from the technical assistance program and transmitted those actions into a sustainable water loss management program catered to their particular geographic region.	What to Consider When Doing a Water Meter Change-Out Project 11:00 am to Noon	
Noon to 1:00 pm	Lunch in the Grand Terrace			
SESSION W5 1:00 pm to 1:30 pm	Ultrafiltration Membrane Pilot Experiment <i>Nate Ewanowski, Strand Associates Inc.</i> Learn about the process of setting up and conducting a pilot test for new ultrafiltration membrane equipment. The speaker will present an operational plan with a list of objectives and share results and experiences from a recent pilot experiment in Lake Forest, Illinois.	Pioneering Water Loss Control Several States Advance with Technical Assistance Programs <i>Steve Cavanaugh, P.E. Cavanaugh & Associates, P.A.</i> There is a growing recognition among the regulatory and infrastructure funding community that widespread adoption of effective utility management practices for water loss control have a measurable and meaningful impact. This presentation will review the progress of the five states who adopted the AWWA M36 auditing, validation and methodology training programs, other states which adopted pilot programs, those with formal incentive programs, and update the listeners on how these programs are revolutionizing national water loss policy and regulation.	How to Deal with the Media <i>John Beard, WKOW</i> John Beard, Assistant News Director at WKOW television, shares tips on working with the press in this interactive dialogue.	

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SESSION W6 1:30 pm to 2:15 pm	<p>Workforce Planning to Reduce Risk with Utility Resources and Capabilities</p> <p><i>Linda Mohr, Jacobs and Nancy Quirk, Green Bay Water Utility</i></p> <p>The Green Bay Water Utility (GBWU) assessed its workforce's capability to meet current and future workload demands, understand where competency gaps lie, and prepare a workforce development strategy and succession plan. The result: a practical guide for attracting, developing and retaining the GBWU workforce in keeping with strategic goals and customer service expectations.</p>	<p>Key Financial Metrics for Utilities</p> <p><i>Jon Cameron, Ehlers</i></p> <p>When doing a utility rate study some of the most frequently asked questions asked are (a) how much unrestricted cash should we have? (b) Is our equipment replacement fund over or underfunded? (c) Should we use cash or debt financing for this upcoming project? (d) Is our rate of return sufficient? (e) When do we reach a point of having too much debt, and when do our user rates become too high for our customers? This session will examine some of the key metrics for evaluating the health of utilities, including factors evaluated by Moody's and Standard & Poors for rating revenue bond debt, as well as factors evaluated by the PSC in review of rate cases.</p>	<p>Getting More From Your Map (and your mapping team) - Developing the GIS as a Decision Support Tool</p> <p><i>Peter Braselton, Madison Water Utility</i></p> <p>Presentation will explore the transition of MWU's GIS from a pretty picture to a decision support tool. Topic includes defining your mission, setting goals, staff development, change management, and ultimately laying the groundwork for new systems such as a CMMS.</p>	
SESSION W7 2:15 pm to 3:00 pm	<p>Wisconsin Cyber Information Sharing and Support</p> <p><i>Bill Nash, WI DOA and Jeremy Holmes, Department of Military Affairs-National Guard</i></p> <p>State of Wisconsin has developed a cross-functional team from the Departments of Administration (Enterprise Technology), Department of Justice (Statewide Fusion Center) and Department of Military Affairs (National Guard) to share cyber information while analyzing and evaluating cyber incidents. In order disseminate information to mission partners, standardize a cyber lexicon and actively share and unify messaging to ensure that each organization responds appropriately to cyber threats.</p>	<p>Preventing Flint-Michigan-Style and Other Water Quality Crises with a New Lead and Copper Rule</p> <p><i>Abigail Cantor, Process Research Solutions LLC</i></p> <p>The Lead and Copper Rule is being revised in 2018. Can the revisions prevent another Flint-Michigan-Style water quality crisis or more common compliance issues from occurring? This presentation will show how certain provisions in the proposed Lead and Copper Rule need to be approached with a bold new vision in order to clear away confusion regarding lead and copper release into drinking water</p>	<p>Utility Plant Accounting 101</p> <p><i>Gwen Zech, Baker Tilly</i></p> <p>From construction to retirement, review accounting for capital assets including cost accumulation, closing projects, property records, contributions, tracking construction funds and reporting to meet the PSCW guidelines.</p>	
3:00 pm to 6:00 pm	<p>Exhibit Hall – Join Us For</p> <ul style="list-style-type: none"> ● New Technology and Innovative Ideas ● Water for the World Silent Auction ● Networking Reception and Refreshments ● YP Raffle Tickets Available 			
7:00 pm	<p>Young Professionals Reception</p>			

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6:45 am to 8:00 am	1 Mile Walk / 5K Run to Benefit the Young Professionals Scholarship Fund <i>Meet in the Monona Terrace Lobby</i> Pre-registration encouraged (\$20) – On-site registration available (\$25)			
7:30 am to 8:30 am	REGISTRATION & BREAKFAST Join us for breakfast in the Grand Terrace			
SESSION T1 8:30 am to 9:30 am	Brace Yourself! Best Practices for Bidding in a Strong Economy <i>John Langhans and Brad Reents, MSA</i> Bid prices came in above our budget! "We only had ONE bidder!" "We had NO bidders!" Brace yourself! In a strong economy, we are all competing for the best contractors who can construct our projects within budget. This session will discuss best practices to structure successful project bidding scenarios, planning flexibility into your projects as well as factors that impact bid prices and contractor's interest in bidding the project. Our speakers have obtained feedback from contractor's around the state to share on what they are telling us.	Using Condition Assessment Data to More Efficiently Manage Your Pipelines <i>Steve Bruskwicz, Pure Technologies</i> Age has been shown to be one of the least reliable predictive factors in pipe failure based on findings by the US EPA, Water Research Foundation, and multiple utilities where data indicates that 70% to 90% of the replaced pipe has remaining life. Using asset risk to guide the management strategies, owners can ensure they are implementing the right approach, at the right time, with the lowest financial impact. This presentation will discuss different techniques and technologies for collecting actionable data on the condition of the pipeline to make confident and informed management decisions.	Attraction and Retention: Where is Everyone? <i>Steve Baue, ERC Counselors & Consultants</i> We are in the midst of a perfect storm: low unemployment, population migration, and mismatches in generational demographics. This means everyone who wants a job has one. This session will cover the importance and techniques of knowing your current talent and why they stay, attracting candidates who aren't looking, and hiring those candidates who truly "fit" your organization.	Utility Manager's Breakfast 7:30 to 8:30 Hall of Ideas H & I Tour the 2017 Project of the Year (Madison Well #7) 8:30 to 9:30 Meet in the Grand Terrace
SESSION T2 9:30 am to 10:00 am	Well-Facilities Pilot Asset Management Plan: Lessons Learned <i>Seth McClure, Madison Water Utility</i> As part of its implementation of an asset management program, MWU has recently completed a pilot asset management plan (PAMP) for its well facilities. This plan involved the creation of a risk register, management strategy groups, and will ultimately be used to optimize operations and maintenance strategies for MWU's unit wells. This talk will focus on the structure of the PAMP and how it has been incorporated into the operation of the Utility.	Asheville's Non-Revenue Water Program - 10 Years and Accounting <i>Will Jernigan, Cavanaugh & Associates, P.A.</i> The City of Asheville, NC has compelling results from over 10 years of proactive Non-Revenue Water (NRW) management, including water loss reductions from 7 MGD to 4 MGD and cost recovery of over \$3 Million dollars. The City's NRW program includes established auditing and data management practices, field verification of supply metering, billing system analytics, large meter testing, active leak detection and pressure optimization. Join in this presentation to learn why the City was featured in USEPA's 2016 Guidance Manual on Conservation & Efficiency.	The Greatest Love of All <i>Amy Deming, Madison Water Utility</i> Yes, the children are our future!—as consumers, customers, professionals, advocates, and emerging leaders of water industry. In this session, Amy Deming, community outreach specialist at Madison Water Utility, will focus on strategies for water utilities to educate, engage, and empower young people.	

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SESSION T3 10:00 am to 10:30 am	<p>The Process of Issuing Utility Debt</p> <p><i>Justin Fischer, Robert W. Baird</i></p> <p>Creating a well thought out debt plan is a critical part of your overall budget development. This session will focus on different funding methods, debt structures, building a financing plan and team, bond credit ratings, and bond underwriting. A common question we receive is who buys our bonds? This presentation will address that question along with many others and take you through all the steps and considerations a utility should consider when issuing debt.</p>	<p>Measuring Drinking Water Age with Naturally Occurring Radioactivity</p> <p><i>James Waples, School of Freshwater Sciences - UW Milwaukee</i></p> <p>Naturally occurring radioactivity that is present in source water can be used to calculate drinking water age. The ability to measure both water age and an analyte (e.g., chemical or microbe) in any water sample at any time allows for new insight into factors that control drinking water quality.</p>	<p>What's going on in Washington - Water Utility Council Perspective</p> <p><i>Kurt Vause, Water Utility Council Chair and Nancy Quirk, Green Bay Water</i></p> <p>Federal regulatory update</p>	<p>VOTE!</p> <p><i>Cast your ballot for Section Officers!</i></p> <p><i>Ballot Box is near Registration Desk</i></p> <p>Voting ends at 2 pm</p>
SESSION T4 10:30 am to 11:15 am	<p>Smart Cities, Smart Water - How IoT Devices are Transforming the City of the Future</p> <p><i>Jacob Jaspersen, Badger Meter</i></p> <p>As "smart cities" becomes a buzzword in the industry, many utilities want to know if this trend is just that, or if it will have any meaningful impact on their utilities and cities. This presentation will discuss the Smart Cities movement, what it is, and how it might be impacting your utility. It will also look at the technology around smart cities; IoT (or Internet of Things). We'll look at what constitutes an IoT device, what vendors are making them, how they interface with existing systems, and why you might want to consider them in your next purchase decision.</p>	<p>Boosting Success: Using Temporary Pumping Stations to Bypass Service Disruption</p> <p><i>Mattew Bednarski, GRAEF</i></p> <p>WisDOT's Zoo Interchange project impacted the Wauwatosa Water Utility's west pressure district forcing relocation of a 24-inch water transmission main. A proactive plan using a strategically located 'temporary' booster station was developed. Like heart bypass surgery the water system maintained service through massive coordination, creative design, and effective communication.</p>	<p>Converting an Arsenic Removal Plant to an Iron and Radium Removal Plant - Greenville, WI</p> <p><i>Dan Klansky, Town of Greenville; Jon Strand, CBS Squared and Jim Groose, Watersurplus</i></p> <p>The Town of Greenville Well #2 Treatment Plant was only producing 25,000 gallons of water between backwashes, not enough to justify keeping this well with a history of arsenic and radium issues. Greenville needed additional water and instead of drilling a new well, decided to rehab the well, treatment plant and water tower that resulted in a very productive system that now produces 350,000 gallons of water between backwashing. Presentation covers water treatment history, catalytic filter/HMO treatment system and plant rehab on a tight budget.</p>	

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SESSION T5 11:15 am to Noon	<p>Understanding the PSC Ratemaking Process</p> <p><i>Denise Schmidt, WI PSC</i></p> <p>Learn about the PSC's rate-making process from the Commission's water team auditors. Topics include: • How to avoid mistakes on your rate application • Information you'll need to provide • Typical rate case process and timeline • What can and cannot be included in the revenue requirement • How capital costs are recovered through rates • Two-step rate increases • Exceptions to the benchmark rate of return • Requesting the expense depreciation mechanism to help fund main replacement • How impact fees, TIF revenues, and special assessments are treated in ratemaking</p>	<p>How to Identify and Integrate Energy Savings at Your Facility</p> <p><i>Joe Kottwitz, Focus on Energy and Tony Mach, Neenah Water Utility</i></p> <p>Energy is one of the largest expenses for Wisconsin's water utilities - luckily, it is also one of the most manageable. In this presentation, attendees will hear firsthand from Neenah Water Utility on how they were able to incorporate energy efficiency into the culture at their plant. Learn the steps Neenah Water Utility made in under two years to reduce their electrical consumption by 13% and electrical costs by 19%, while still supplying the same amount of water. Also, find out what technical support and financial assistance is available from Focus on Energy.</p>	<p>Navigating New Waters: Designing and Permitting a New Drinking Water Supply System</p> <p><i>Catharine Richardson, Greeley and Hansen and Kelly Zylstra, Waukesha Water Utility</i></p> <p>The program will highlight risk and cost minimization strategies that reduce construction costs and project administrative burden, minimize change orders and provide stakeholders assurance that maximum value is realized for their construction investment.</p>	
Noon to 1:30 pm	<p>BUSINESS & AWARDS LUNCHEON</p> <p>Located in the Community Terrace (Level Two)</p>			
SESSION T6 1:30 pm to 2:00 pm	<p>DMARC - Only You Can Prevent Spoofing Attacks</p> <p><i>Daniel Honore, Village of Pleasant Prairie</i></p> <p>As the risk of cybercrime increases across the globe, organizations need the means to protect their information and networks from criminals. One of the most prevalent vectors for compromising an organization's network is via an organization's human assets. Through phishing attacks and malware-laced websites, many attackers are able to gain a foothold into a workstation or network. Attackers spoof the email address so the message looks like it is coming from a legitimate company. The user cannot tell the difference, opens the message, clicks on a link and now your organization is infected with the latest malware. DMARC can stop this type of attack in its tracks.</p>	<p>Building Novel Technologies for Removal of Pollutants from Water and for Detection of Pollutants in Water</p> <p><i>Marcia Silva, UW Milwaukee</i></p> <p>Clean and safe water is crucial for public health and ecosystems health. Technology innovation is needed to address local and global water challenges, while pursuing a more sustainable path. Water technology can support economic growth as the value of the global water market—control and cleanup of water—is estimated at \$500 billion per year. Through interaction with local industries and as a result of the integration with a dynamic community like the Global Water Center the need for new filtration materials and sensors was identified. Present challenges of the technologies will be discussed as well as the future horizons.</p>	<p>Raw Water Intake Improvements and Conceptual Design Study</p> <p><i>Bill Swearingen, Sheboygan Water Utility and Amrou Atassi, CDM Smith</i></p> <p>The primary objective of this study is to develop a basis of design for raw water improvements that will address the system's risk of failure, improve the reliability of the Utility's raw water intake and raw water pump station, and meet current and future water demands. The conceptual improvements, while based on projected demand, should be compatible for potential future expansion and anticipated future regulatory requirements.</p>	

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SESSION T7 2:00 pm to 2:30 pm	Improving Water Utilities through Asset Management <i>Cathy Wunderlich, WI DNR</i> Inventorying and assessing a water utility's assets will enable a system to reduce untimely infrastructure failures, improve resiliency, save money and improve regulatory compliance.	Sources of Radium in Wisconsin's Sandstone Aquifer <i>Madeleine Mathews, UW Madison</i> Many wells in Wisconsin's Cambrian-Ordovician groundwater system have combined radium concentrations measuring near or above the Maximum Contaminant Level of 5 pCi/l. Recent studies show that multiple geologic sources of radium are present in the sandstone aquifer. Multiple chemical mechanisms, including mineral dissolution and competitive ion exchange, appear to mobilize radium from these sources. Results from these studies can inform the design and construction of supply wells to mitigate water quality problems.	Using Your Senses to Detect Water Quality Problems <i>Andrew Jacque, Water Quality Investigations, LLC</i> Too often we rely upon compliance test results to tell us we have a water quality problem, and then expensive follow up testing to help identify what the problem really is. This talk will cover using your powers of observation and/or basic field testing to help identify a water quality problem before it gets out-of-hand, or shows up as a bad compliance result.	
SESSION T8 2:30 pm to 3:00 pm	Update on PSC Construction Approvals <i>Steve Kemna, WI PSC</i> Join us for a discussion and bring your questions for one of the Commission's Public Service Engineers. This session will cover the types of water utility projects requiring Commission approval, the approval process, information you'll need to provide on your application, and trends in construction applications and projects.	Developing a Financial Roadmap for Your Utility <i>Ryan O'Donnell, Baker Tilly</i> Community development, customer conservation, infrastructure replacement and ongoing regulation impact utility finances. Learn how a financial forecast can be used to gather information, anticipate the impacts of plans on borrowing needs and rates, and allow decision makers to proactively adjust plans, balancing utility and ratepayer needs.	Wisconsin InfraGard <i>Daniel Honore, Village of Pleasant Prairie</i> The mission of InfraGard is to support an information sharing partnership between the private and public sectors for the purpose of protecting the nation's CRITICAL INFRASTRUCTURES against attacks or failure caused by either foreign or domestic threats, and to support all FBI investigative programs, especially Counterterrorism, Counterintelligence, and Cybercrime.	
3:00 pm to 6:00 pm	Exhibit Hall – Don't Miss Out <ul style="list-style-type: none"> ● New Technology and Innovative Ideas ● Networking Reception and Refreshments ● Water for the World Silent Auction - final bids close at 5:00 pm 			
3:00 pm to 4:00 pm	Women in Water Reception Featured Speaker: Rosalind Rouse Hall of Ideas H & I		Small Systems & Operators Reception Hall of Ideas J	

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8:00 am to 9:00 am	REGISTRATION & BREAKFAST Join us for breakfast in the Grand Terrace	
SESSION F1 9:00 am to 10:00 am	<p>PSC Regulatory Update <i>PSC Staff</i></p> <p>Staff with the Commission's Division of Water, Telecommunications, and Consumer Affairs will provide an update on programs and regulatory issues of interest to the water utility industry. There will be an opportunity to ask questions and provide comments to Commission staff.</p>	<p>Installation of Common Water Distribution Products - BY THE BOOK <i>Jeff Fischer, Fischer Harris & Associates</i></p> <p>This presentation shows the importance of following manufacturer installation instructions on common waterworks products. Even if one thinks they already know how to install a particular product, the instructions often change over time and should be reviewed regularly. The presentation also gives examples of what can go wrong when installation instructions are not followed. This covers ductile iron and PVC pipe, mechanical joint fittings, joint restraints and repair clamps.</p>
SESSION F2 10:00 am to 10:30 am	<p>DNR Regulatory Update <i>DNR Staff</i></p> <p>DNRs Drinking Water and Groundwater Program, as well as the Community Finance Program, will provide regulatory updates regarding lead & copper, UCMR, Funding, etc.</p>	<p>Ratemaking 101 for Operators <i>PSC Staff</i></p> <p>How does my utility pay for operating and maintenance, infrastructure upgrades and replacement, and new projects? Which costs can be recovered through rates, and which cannot? What are customer classes, and how do costs get allocated between them fairly? What factors are considered in developing a rate design that ensures rates are just and reasonable? Get answers to these and your ratemaking questions at this session provided by the Commission's water team staff.</p>
SESSION F3 10:30 am to 11:00 am		<p>Under Pressure: Hot-Tapping and Line Stopping a 90-inch Water Main <i>Matthew Bednarski, GRAEF</i></p> <p>Imagine having to relocate an existing 90-inch, inner diameter water transmission main to accommodate a massive rebuilding and widening on the ever-busy Jane Addams Memorial Tollway (I-90) in Northern Illinois. The pipeline in question was designed for a pressure of 210 psi and is the only source of potable water serving approximately 500,000 residents in the northwest suburbs of Chicago. The TDW/GRAEF team successfully designed, tested, and constructed a thrust restraining system to absorb the massive forces generated by the hot-tapping, line plugging, and bypass operations through use of TDW's proprietary Stopple technology. All of this was successfully completed without interruption of water service to the half million residents that depended on the transmission main for their daily water supply.</p>

See You September 10-13, 2019 at Monona Terrace, Madison