



April 29, 2024
Ms. Judy Grycko
OESAC CEU Committee
PO Box 577
Canby, OR 97013-0577

Re: OESACID: 6096 – CEU Application Update for Technical Program Content, Pacific Northwest Section – American Water Works Association (PNWS-AWWA) 2024 Annual Conference.

Dear Judy Grycko,

Enclosed for your review, evaluation and CEU credit approval are a few updates to the 2024 PNWS-AWWA Annual Conference, to be held in Spokane, WA, May 1-3, 2024. Updates are as follows:

- The MacGregor, Burnham and Thomson abstracts are replacement speakers, so only the speaker biographical information is updated (highlighted in yellow on the attached program schedule).
- Two speakers will not be able to attend the conference and have not been able to find replacement speakers. We have replaced that hour with a presentation that has already received wastewater CEUs via another conference.
 - Oregon Association of Clean Water Agencies Model FOG Ordinance was assigned CEUs in 2024 for OESAC ID# 6181 48th Annual Oregon Water Education Foundation's (ORWEF) Water Environment School (WES).

The conference will allow water and wastewater professionals the opportunity to enhance their job skills and knowledge. Information and education about topics including engineering, water quality, water resources, water treatment, water distribution, customer service, public information/education, water information technology, water system resilience, regulatory compliance, asset and data management as well as other utility management strategies will be presented during this virtual conference.

Enclosed materials include:

- Updated program schedule
- Updated abstracts only, which also include training goals and speaker information
- Updated sections of each abstract are highlighted in yellow, except the new abstract

Attendance at sessions during the conference will be tracked by reading bar codes on each attendee's name tag at the beginning of each session and after each hour of presentations. Registration materials and conference information can be accessed on-line <http://www.pnws-awwa.org/conference/>.

On behalf of the Pacific Northwest Section – American Water Works Association, thank you for your time and assistance regarding this request. Should you have any questions, please do not hesitate to contact me at my home office (541) 543-5774 or at jhoyenga@pnws-awwa.org.

Respectfully, Jill Hoyenga
2024 PNWS-AWWA Program Committee Chair, Enclosures

DRAFT Spokane 2024 Conference Program Schedule

CEUs Awarded - Oregon - 1.9 DW, 1.9 WW
 CEUs Awarded - Washington 2.0 DW, listed as variable, 1.9 WW
 Idaho accepts CEUs awarded by Oregon and Washington

Morning	Wednesday, May 1 Morning Pre-Conference Seminars						
Room	102 C/D - 100	201 A/B/C- 100	202 A/B/C - 100			Meet in Lobby	
Hosting Committee	Conservation	Distribution	Water Resources			Treatment & Wastewater	
Moderator	Dan Denning	Doug Kubik	Andrew Austreng			Tessora Young	
Theme	Water Efficiency Solutions for Commercial Properties - Part 1	Operator Skills Part 1 – Math for Operators	Water Supply and ASR Permitting			Off-Site Tour	
8:30	99a-Intro to Water Efficiency Solutions for Commercial Properties, Annikki Chamberlain (60) DW	18 - Math for Operators, Jeff Lundt (3 hours) DW/WW	87-Well Electric Well Station Assessment – Evaluating Options for Increasing its Reliable Production Capacity, Kenny Janssen (30) DW			63-Tour of Spokane’s Riverside Park Water Reclamation Facility, Tessora Young (3 hours, off site) DW/WW	
9:00			48-PFAS Regulation and Implications for Aquifer Storage and Recovery (ASR) and Artificial Recharge (AR) Projects: Data Review, Management Strategies, and Case Studies, Matt Kohlbecker (30) DW				
9:30 - 9:45 Break							
9:45	99b-Meters, submeters and deduct meters, oh my!, Annikki Chamberlain (60) DW		92-Pilot Testing Supports ASR Decision Making, Lee Odell (30) DW				
10:15			148-Permitting Considerations for ASR Source Water, Andrew Austreng (30) DW				
10:45 - 11:00 Break							
11:00	86-Water meters can’t find water main line leaks, can they? You bet they can!, Graham Mattison (60) DW		52-Municipal Water Supply Source Development and Regulatory Considerations, Patrick Cabbage (30) DW				
11:30	99c-Leak Detection on Commercial Properties, Annikki Chamberlain (30) DW		178-Water Quality Challenges and Solutions for ASR Systems, DeEtta Fosbury (30) DW				
		Drinking Water CEUs only	Wastewater CEUs only				

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Afternoon		Wednesday, May 1 Afternoon Pre-Conference Seminars						
Room		102 C/D - 100	201 A/B/C- 100			Meet in Lobby	206 A/B - 100	206 C/D - 100
Hosting Committee		Conservation	Distribution			Water Resources	Treatment	Engineering
Moderator		Brittany Contreas	Tonya Reiss			Seth McIntosh	Milt Larson	Nicholas Augustus
Theme		Water Efficiency Solutions for Commercial Properties - Part 2	Operator Skills Part 2 - Understanding Process Control & Diagrams			Off-Site Tour WR	PFAS Treatment	Seismic/Resilience Planning and Projects
1:00		99d-Commercial Irrigation Efficiency, Annikki Chamberlain (60) DW/WW	19 - Reading Process & Instrumentation Diagrams, Jeff Lundt (3 hours) DW/WW			83-City of Spokane Well Electric Well Station and Water System Field Trip, Seth McIntosh (3 hour tour) DW	124-City of Vancouver Bench- and Pilot-Scale Evaluations for PFAS Mitigation, Gwen Woods-Chabane (30) DW	8 - Long Term Seismic Resilience Master Planning, Negar Niakan (30) DW
1:30							46-PFAS in Potable Reuse, Kyle Thompson (30) DW	152 - Seismic Piping 101, Daniel Shafar (30) DW
2:00 - 2:15 Break								
2:15		99e-Commercial Heating and Cooling System Efficiency, Annikki Chamberlain (60) DW/WW					104-Centralized Treatment to Removes PFAS and Nitrate in Tustin, CA, Esther Chang (30) DW	128 - Challenges of Routing and Designing a 66" Seismically Resilient Pipeline: Liquefaction Risks, Alignment Alternatives, and Deep Soil Mixing on the WWSP Pipeline, Kelli Barton (30) DW
2:45							118-A Utility's Journey to Treat Rising PFAS Concentrations: Emergency Treatment Implementation While Design of Permanent Treatment Facility is Underway, Amy Gao (30) DW	12 - Lessons Learned about Seismic Certification to Help Your Equipment Operate Post-Earthquake Event, Mike Britch (30) DW
3:15 - 3:30 Break								
3:30		99f-Field Evaluation of a Commercial Property, Annikki Chamberlain (60) DW/WW					130-Navigating PFAS Treatment Technology Decisions, Cynthia Yeager (30) DW	68 - Oregon City Henrici Reservoir Rehabilitation – Extending the Service Life of Welded Steel Potable Water Storage Tanks, Justin Ford (30) DW
4:00							175-GAC and IX for PFAS Removal: A review of recent case studies, Eli Townsend (30) DW	160 - Getting Ready for the Big One: Seismic Upgrades at a 255 MGD WTP, Jeremy Williams (30) DW
			Drinking Water CEUs only	Wastewater CEUs only				

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Thursday, May 2 Early Bird Sessions									
Morning	Room	102 A/B - 100	102 C/D - 100	201 A/B/C- 100	202 A/B/C - 100	203 - 50	205 - 50	206 A/B - 100	206 C/D - 100
Hosting Committee		Water Quality		Distribution	Research	Utility Management	Diversity, Equity, Inclusion and Belonging	Treatment	Engineering
Moderator		Mia Vijanderan		Dave Stanley	Doug Lane	Mike Grimm	Chris Young	Tyler Kurtz	Taylor Stockton
7:00		176-Washington Regulatory Update, Brad Burnham (30) DW		165-Flow and Function: Facets of Large Vertical Pumps, Motors, and VFDs, Jennifer Murphy (60) DW/WW	43-Water Treatment Media Design and Evaluation - Screening Method Limitations and Proper Pilot Trial Design, Neal Megonnell (30) DW/WW	101-Holistically Evaluating Staffing Needs, Emily Palmer (30) WW	132 - Implementing DEI Initiatives in your Water Utility, Kyle Bayer (60) DW/WW	113-To Pilot or not to Pilot? PFAS Pilot Testing Approaches and Case Studies, Amy Gao (60) DW	6-Essentials for the Design & Specification of Earthquake Resistant Ductile Iron Pipe, John Kitchen (30) DW/WW
7:30		126-Oregon Regulation Update, Michelle Byrd (30) DW			107-Side-by-side Comparison of Online Monochloramine Analyzers, Mojtaba Azadiaghdam (30) DW/WW	82-Broadening our SCOPE – Growing Industry Involvement in the STEM Educational Experience, Maricris Eleno-Orama (30) WW			
Thursday, May 2 Morning Technical Sessions									
Morning	Room	102 A/B - 100	102 C/D - 100	201 A/B/C- 100	202 A/B/C - 100	203 - 50	205 - 50	206 A/B - 100	206 C/D - 100
Hosting Committee		Water Quality	Conservation	Distribution	Water Resources	Utility Management	Diversity, Equity, Inclusion and Belonging	Research & Treatment	Engineering
Moderator		Mia Vijanderan	Danlyn Brennan	Dave Stanley	DeEtta Fosbury	Theresa Jurotich	Chris Young	Brian Smith	Greg Loscher
8:30		27-Lead and Copper Rule Revision: Idaho Primacy and Beyond the Inventory, Cassandra Lemmons (60) DW	170-Fixing Leaks, Saving Wallets: Tacoma's Water Service Line Grant and Loan Program, Tyler Cummings (30) DW	140a-Hands-On w/ Hydraulic Control Valves: Function, Steve Causseaux (60) DW	162-Enhancing Protection of the Willamette River, Oregon's Largest Watershed, Jacob Krall (60) DW	164-Aligning Your Top Projects with Federal Funding Priorities, Sean Thomson (30) DW/WW	9-What Makes an Award-Winning Diversity Equity & Inclusion (DEI) Program?, Ann Hajnosz (30) DW/WW	60-Four Tenets of Pressure Vessel Design - What to Consider on Your Next GAC or IX Treatment System, Richard (Bo) Botteicher (30) DW	157-Alternative Delivery: Another Tool in the Toolbox to Get Projects Done, Patrick Weber (30) DW/WW
9:00			54-Water Providers Uniting to Conserve Water on Oregon's Mid-Coast, Suzanne de Szoeki (30) DW				145-External Funding Opportunities to Reduce Project Financing Costs, Seema Chavan (30) DW/WW	20-From Raindrops to Rivers: Nurturing Diversity, Equity, and Inclusion in the Pacific Northwest's Water Journey, Courtney Thomas (30) DW/WW	85-The Evolution of Membrane Filtration for Water Treatment, Bryan Black (30) DW
9:30 - 9:45 Break									
9:45		32-PFAS - Proposed rule, UCMR5 and Idaho Sampling Project, Cassandra Lemmons (30) DW	16-Uniting for a Common Goal: Regional Partnerships in Water Conservation, Cody Scoggins (30) DW	140b-Hands-On w/ Hydraulic Control Valves: Maintenance, Steve Causseaux (60) DW	10-Current and Future Trends in Source Water Protection Planning, Rob Annear (30) DW	173-Forging the Future: Aligning Mission, Vision, and Values to Set Organizational Direction, Paul Matthews (60) DW/WW	59-Beyond Relationships: Creating Positive Impact in Underserved Communities, Nicki Pozos (60) DW/WW	98-Operational Conditions to Reduce Colloidal & Biological RO Fouling Downstream of Flat-Plate MBR Membranes for Potable Reuse Applications, Katrina Messologitis (30) DW	176-CMGC Design Phase Benefits, Challenges & Lessons Learned, Kelsey Hinsperger (30) DW WW
10:15		142-Tracing Copper in Schools: Implications for Lead Sampling under the LCRR, Damon Roth (30) DW	144-Flow-ward Bound: Making Waves with Residential Water Audits in Spokane, Will Rettig (30) DW		58-Using Place-based Planning to Develop and Implement Regional Water Supply Strategies, Suzanne de Szoeki (30) DW			106-Low pressure membrane verification studies, Jolyn Leslie (30) DW	88-Succeeding With Progressive Design Build Delivery of Your Water Treatment Project, Bryan Black (30) DW
				Drinking Water CEUs only	Wastewater CEUs only				

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10:45 - 11:00 Break								
11:00	37-LCRR, Corrosion Control Study, and Implementation Plan in Anacortes, Sanyukta Gokhale (30) DW					80-Operationalizing DE&I in the Water Industry through your Organization, Walt Walker (30) DW/WW	123-Bench-Scale Testing as an alternative to Pilot Testing, Brian Rowbotham (30) DW	
11:30	131-A Bench-Scale Study to Evaluate the Impact of Different Corrosion Inhibitors on Lead and Copper Leaching from Plumbing Materials in High and Low Hardness Waters, Hisyam Mohsin (30) DW	133-Water Wise Spokane and Spokane Public Schools use technology to improve water management, Annikki Chamberlain (60) DW/WW	140c-Hands-On w/ Hydraulic Control Valves: Troubleshooting, Steve Causseaux (60) DW	34-Getting to Informed Water Supply Planning Using a Feedback Loop of Systems Analysis, Data Collection, and Intentional Learning: A Spokane Case Study, John Porcello (60) DW	28-Levels of Service: Establishing and Supporting Realistic Goals for the Utility, Erin McLachlan Sanchez (60) DW/WW	81-Engineering Justice in Design – Water Equity Approaches in Practice, Walt Walker (30) DW/WW	136-Prove It! Demonstrating pathogen removal in a 10 gpm/sf gravity filtration pilot study, Enoch Nicholson (30) DW	24-CMGC Delivery Strategies in an Uncertain Cost Environment, Michael Neher (60) DW/WW
12:00 - 1:30								
Vendor Lunch								
Drinking Water CEUs only			Wastewater CEUs only					

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Afternoon		Thursday, May 2 Afternoon Technical Sessions						
Room	102 A/B - 100	102 C/D - 100	201 A/B/C- 100	202 A/B/C - 100	203 - 50	205 - 50	206 A/B - 100	206 C/D - 100
Hosting Committee	Water Quality & Treatment	Wastewater	Distribution	Water Resources & Information Technology	Utility Management	Young Professionals	Research & Treatment	Engineering
Moderator	Sean Thomson	Jeff Lundt	Cheryl Capron	Jamie Feldman	Mark Handzlik	Annabel Irwin	Kim Reid	Cameron Lee
1:30	122-Tracer Testing 101, Brian Rowbotham (30) DW	39-Nitrogen Removal Optimization at Post Point, Susanna Leung (60) WW	154-Resiliency Prioritization within the Distribution System, Daniel Shafar (30) DW/WW	45-One Inventory to Rule them All: Hillsboro Water's Quest for LCRR Lead Service Line Inventory Compliance, Symon Powlison (30) DW	139-How to Talk about Water Rate Adjustments with Decision-Makers and Stakeholders, Ann Hajnosz (60) DW/WW	72-Emerging Leaders Venturi-style: A Case Study for Professional Development, Erika Schuyler (30) DW/WW	74-Innovate ways to add capacity and ozone to the Quail Creek WTP, Jeremy Williams (30) DW	50-Case Histories: Concrete Water Reservoir Foundation and Floor Slab Design Considerations, Scott Schlechter (30) DW
2:00	158-Catalyst or Breaking Point - Dechloramination Decision, Andrew Nishihara (30) DW		171-The Pressure is On: Replacing a Crumbling Regulator Vault, Joel Ayres (30) DW	22-Targeted Streamflow Gaging and Associated Data Systems for Water Supply Planning - City of Waldport, OR., Zach Pike-Urlacher (30) DW		135-Turning a Job into a Career: Career Planning for Workforce Retention, Claire Litsky (30) DW/WW	91-True Capacity: Understand the current state of The Dalles WTP, Enoch Nicholson (30) DW	117-Structural Assessments and Asset Preservation Strategies for Welded Steel Water Tanks, Leslie Scott (30) DW
2:30 - 2:45 Break								
2:45	153-Making the most of your space: Lessons learned from On-site Hypochlorite Generation retrofit project with RO Pre-treatment, Joanie Stultz (30) DW	168-Is smaller always simpler? Engineering and Operating considerations for remote WWTPs, Kenneth Packard (60) WW	73-Under Pressure! Emergency Repair of Sherwood's Prestressed Concrete Tank. Matt Hickey (30) DW	108-Diverting Data Disasters, Kelsey Mach (30) DW	79- Equitable Climate Action Planning: From National Perspectives to Local Approaches, Walt Walker (30) DW/WW	36-Who? Me? A Leader?, Jason Canady (60) DW/WW	95-Zero to Hero: Best Practices for WTP Startup and Commissioning and Lessons Learned from the Houston NEWPP 320 mgd Greenfield WTP, Joshua Kennedy (30) DW	23-The Balance of Conservation and Storage, Jessica Nathan-Waller (30) DW
3:15	66-City of Spokane's 70-Year Well Facility Onsite Generation Disinfection Upgrade Challenges, Heather Burns (30) DW		110-Commissioning a New WTP with a Ruptured Reservoir, Danielle Philbrick (30) DW	147-Modeling visualization using R Shiny, Benjamin Beal (30) DW	114-Growing Your Own - Tacoma Water's OIT Journey, Craig Downs (30) DW		41-Alternatives and Optimization Strategies for Sedimentation Basin Sludge Collection, Henry Ricca (30) DW	33-Unlocking the Flow: SCADA-Powered Knowledge Retention for Efficient Flow Management, Jeff Hesse (30) DW
3:45 - 4:00 Break								
4:00	90-Preventing distribution system destabilization during source and treatment changes, Alex Mofidi (30) DW	61-Georgetown Wet Weather Treatment Station, King County, Washington: Commissioning and Startup Lessons Learned of a new 70 MGD ballasted sedimentation with UV disinfection wet weather treatment facility, Pedro deArteaga (60) DW/WW	7-Creating a New Pressure Zone in a Century-Old System: Seattle's Queen Anne 580 Zone, Cheryl Capron (60) DW	42-Increasing Data Quality, Defensibility, and Confidence Through Utilization of a Field Sampling and Measurement Organization Quality System, Thomas Krause (60) DW/WW	119-DRIP Talks: Creating Opportunities in the Water Industry Workforce, Natalie Reilly (60) DW/WW	149-Generations@Work: Tailoring the Employee Life Cycle for a Multigenerational Workforce, Luise Winslow (30) DW/WW	78-Comparison of Oxygen Sources for Ozone Generation, Ali Leeds (30) DW	69-Scope Creep for the Greater Good: Adding replacement of a 90-year-old reservoir to a pump station project on a highly constrained site, Greg Postlewaite (30) DW
4:30	77-Inorganic Awakenings: Anacortes's Investigation from Source through Distribution, Chris McMeen (30) DW		141-Chemical Mixing: Nothing but a G Thing?, Conner Mancosky (30) DW	161-The YP Mindset, Jacob Yoshino (30) DW/WW	70-Small Tank Material Selection Results in a 0.4 MG Prestressed Concrete Tank – How Considering Multiple Criteria Led to an Unexpected Material Choice, Nathan Rostad (30) DW			
			Drinking Water CEUs only	Wastewater CEUs only				

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Morning		Friday, May 3 Early Bird Sessions						
Room	102 A/B - 100	102 C/D - 100	201 A/B/C- 100	202 A/B/C - 100	203 - 50		206 A/B - 100	206 C/D - 100
Hosting Committee	Cross Connection	Wastewater	Distribution	Research	Public Information		Treatment	Engineering
Moderator	Darci Ronning	Jeff Lundt	Aurelie Nabonnand	Doug Lane	Tacy Steele		Tyler Kurtz	
7:00	125-Digital Transition to Backflow Prevention Compliance, Paul Molisani (60) DW	75-Are You Ready? Emergency Preparedness for Water Utilities, Sarah Lingley (60) DW/WW	166-Abrasive Situation: Rehab and Protection of 21-foot Diameter Raw Water Supply Piping, Matt Hickey (30) DW	96-Water 2050: Forecasting Tomorrow's Water Industry through Recent Research, Tyler Kane (30) DW	89-Demonstrating and Communicating the Absence of Lead Service Lines, Joel Cary (60) DW		84-A Typical Customer Concerns with Hard Water, Doug Greenlund (30) DW	
7:30			71-Redundancy and Reliability of Water Supply Solved with Trenchless Approach for the City of Pocatello, Idaho, Dennis Galitano (30) DW	93-Knowledge Management at Tacoma Water, Jennifer Airey (30) DW		105-Path to Clear Water - Managing Manganese, Qianru Deng (30) DW		
Morning		Friday, May 3 Morning Technical Sessions						
Room	102 A/B - 100	102 C/D - 100	201 A/B/C- 100		203 - 50		206 A/B - 100	206 C/D - 100
Hosting Committee	Cross Connection	Wastewater	Distribution		Public Information		Research & Treatment	Engineering
Moderator	Darci Ronning	Jeff Lundt	Aurelie Nabonnand		Tacy Steele		Xue Jin	Carmen Brown
8:15	179-Backflow Prevention Assembly Repair, Jim Purzycki (60) DW	182-Oregon Association of Clean Wwater Agencies Model FOG Ordinance, Jill Hoyenga (60) WW	103-Evaluating Water Quality and Enhancing Operations Management: Leveraging an EPS Calibrated Model, Natalie Reilly (30) DW		51-Rioting over Rising Rates: Communication Challenges in a "Water is a Right" World, Tacy Steele (30) DW/WW		150-Wildfire impacts on water quality and treatment processes in the Pacific Northwest, Kyle Shimabuku (30) DW	100-Delivering Capital Projects: A Young Professional's Guide to Specification Writing, Spencer Adams (30) DW
8:45			1-Saving Rate Payer Dollars by Completing Water Main Replacement Projects Using Your Crews, Dave Stanley (30) DW	174-Effective Strategies for Building Consensus with a Rate Advisory Committee, Paul Matthews (30) DW/WW	35-Evaluation of the Effectiveness of Low-pressure Membranes in Water Treatment after Wildfire, Xue Jin (30) DW	137-Navigating Common Construction Pitfalls, Greg Loscher (30) DW		
9:15 - 9:30 Break								
9:30	49-Cross Connection Control Hazard Surveys, William Bernier (60) DW/WW	180-MBR-LRV Testing, David Seymour (60) DW/WW	13-Water Distribution Management Systems: Quantifying An Innovative Approach to Improve Water Loss and Carbon Footprint, Mike Uthe (60) DW		177-Will AI Replace or Enhance Public Communication?, Kristen Zimmer (60) DW/WW		159-Building Treatment Resilience to Wildfires in Oxidation and Coagulation Responses, Mac Gifford (60) DW	3-Teamed-Up! Keeping people informed and at the virtual decision-making table. Tips for project management communications, Nicholas Augustus (30) DW/WW
10:00				155-Behind the Curtain – Things Owners and Consultants Wished Each Other Knew, Andrew Nishihara (30) DW/WW				
10:30 - 11:00 Break								
11:00	121-Cross Connection Control - Idaho Rules and Best Practices for Program Development, Anna Moody (60) DW	172-Equipment Preselection - How, Why, and Lessons Learned, David Seymour (60) DW/WW	44-Improving System Resiliency One Critical Valve at a Time, Bryan Robinson (30) DW		167-Water Service Lines of Communication: Achieving LCRR Goals Beyond the Meter, Alyssa MacDonald (30) DW		181-Unfiltered and On Fire: Lessons Learned from the Camp Creek Fire, Kimberly Gupta (60) DW	115-Informing Water Treatment Plant Design with Localized Hydraulic Models, Henry Ricca (30) DW
11:30			112-Medford Water's digital twin use for design through operator training, Stephanie McGregor (30) DW	53-Water Service Line Survey Outreach, Jill Hoyenga (30) DW	116-Tracer Study Back to Basics and the Intricacies Considered by McMinnville, Humberto Jaramillo (30) DW			
12:00 - 1:30								
			Drinking Water CEUs only	Wastewater CEUs only	Awards Lunch			

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Afternoon		Friday, May 3 Afternoon Technical Sessions					
Room			Conference Theater				206 C/D - 100
Hosting Committee			Subsection Advisory Committee				Engineering
Moderator			Convention Center Theater				Dan Shafar
1:30			Top Ops, DW				25-Leveraging Innovations - Utilizing Technology to Add Value for Project Stakeholders, Michael Nehar (30) DW
2:00							102-The New Era of Pressure Pipe Design in AutoCAD Civil 3D, Laura Oxsen (30) DW
2:30 - 2:45 Break							
2:45			Gimmick & Gadgets, DW				31-Cost Savings on an Accelerated Schedule Utilizing Artificial Intelligence, Josh Ford (30) WW
3:15							129-Taking Technology into the 21st Century: Creating a Resilient and Cybersecure SCADA System for Medford Water and Integrating it with the Duff WTP Expansion to 65 MGD, Jeff Kanyuch (30) WW
3:45 - 4:00 Break							
4:00							67-California Dreaming – Leveraging Water Reuse Innovations Inspiring PNW's Sustainable Future, Evelyn Choudhary (30) No OR CEUs; WADW CEUs
4:30							62-Starting from Scratch: When the Treatment Process is the Most Straightforward Part of Designing a New Water Treatment Plant, Chad Johnson (30) WADW CEUs
			Drinking Water CEUs only	Wastewater CEUs only	WA Drinking Water CEUs only		



2024 Annual Conference, Spokane, WA May 1 – 3
Spokane Convention Center 236 West Spokane Falls Blvd. Spokane, WA 99201

Then change information as necessary and highlight the information that has changed.
Thank you for your assistance in tracking changes to abstracts after submittal to the accreditation body.

Session ID: 143 **Date:** 5/3/2024 **Length of Presentation:** 30 minutes

Area of Relevancy: Drinking Water & Wastewater

Presentation Title: Medford Water's digital twin use for design through operator training

Abstract: Medford Water is completing major facility and SCADA upgrades at the Duff WTP, scheduled for completion in 2025. Medford Water requested a fully integrated digital twin connected directly to SCADA to understand how the new infrastructure and SCADA system would work ahead of commissioning and real operation. This presentation will show how the digital twin was used from design through commissioning to:

- Evaluate the new and existing facility flow split hydraulics and controls across a variety of what if scenarios
- Create an operator training tool using an offline copy of the upgraded SCADA graphics to familiarize and train operations staff on both the new SCADA platform and the hydraulic operation of the new facilities.

CEU Relevance Statement: The use of digital twins to improve WTP design and operation is becoming more widespread. The MWC project will cover an example of how a digital twin can be used to validate the design and provide hands on operator training in a simulation environment.

Author: Stephanie McGregor **Author's Job Title:** Instrumentation & Control Engineer

Email: stephanie.mcgregor@jacobs.com **Phone:** 541-231-1779

Organization: Jacobs

Primary Job Duties: Stephanie McGregor is an instrumentation and controls engineer for Jacobs in Portland, Oregon. She received her process engineering degree from Oregon State University and is a licensed PE in Oregon and Idaho. Her experience includes design, programming and startup of control systems for water and wastewater treatment systems. Stephanie's expertise includes controls modeling

for treatment plants and conveyance systems using dynamic simulation.

Related Prior Employment:

Registrations or Certifications: PE, Oregon and Idaho



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Spokane Convention Center 236 West Spokane Falls Blvd. Spokane, WA 99201

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Session ID: 176

Date: 5/2/2024

Length of Presentation: 60 minutes

Area of Relevancy: Drinking Water

Presentation Title: Washington Regulatory Update

Abstract: Washington State has been implementing PFAS requirements since 2022. While some systems monitored early under our free-PFAS sampling program, we now have results for over half of all water systems. This update will provide information on what we've found, and how EPA's (proposed/final) regulation may change our existing rule. The options the State Board of Health has for our rule will depend upon the changes from the proposed to the final rule. Transitioning from the LCR implementation after LSLIs are submitted this year to LCRR/LCRI implementation and our proposal for an extension will also be discussed. Additional legislative and regulatory updates will be provided.

CEU Relevance Statement: Since regulations provide an overarching guide for ensuring water systems provide safe and reliable drinking water, this presentation is relevant for all operators, managers, and public officials, engineers, and administrators.

Author: Brad Burnham

Author's Job Title: Policy and Planning Section Manager

Email: brad.burnham@doh.wa.gov **Phone:** 564-669-0820

Organization: WA Department of Health, Office of Drinking Water

Primary Job Duties: Brad is currently the Policy and Planning Section manager for the Office of Drinking Water at the Washington State Department of Health (DOH). Brad leads work on policies, rules, legislative tracking, and Foundational Public Health Services.

Related Prior Employment: Brad has worked at the Department of Health for ten years. Prior to the that, Brad worked at the Office of Superintendent of Public Instruction and the State Board of Education.

Registrations or Certifications:



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Session ID: 164

Date: 5/2/2024

Length of Presentation: 30 minutes

Area of Relevancy: Drinking Water & Wastewater

Presentation Title: Aligning Your Top Projects with Federal Funding Priorities

Abstract: Two years into the Bipartisan Infrastructure Law and one year into Inflation Reduction Act Funding - what trends are we seeing with federal dollars flowing (or not), and how can PNW water agencies best leverage these funds for their priority projects? In this presentation, we will cover federal priorities for infrastructure dollars, key considerations in prioritizing a capital improvement program based on funding availability, evaluating your project's competitiveness, and strategies for cobbling together multiple funding sources for a single project.

CEU Relevance Statement: Finding the funds to implement capital projects can be a challenge, especially when water agencies have to prioritize across many critical projects to address aging infrastructure, respond to regulatory changes, and continue to provide reliable drinking water services. Federal grant and loan programs can offset these costs, but it can be a challenge to stay on top of all the evolving trends. This presentation would be educational for City Managers, General Mangers, Finance Departments, Planning Departments, and Engineering Departments.

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Organization: Stantec

Primary Job Duties: Civil Engineer

Related Prior Employment: N/A

Registrations or Certifications: 95487PE (Oregon)



Date: 5/3/2024 Replacement abstract for cancelled speakers Length of Session: 60 min.

Area of Relevancy: Wastewater

Presentation Title: Oregon Association of Clean Water Agencies Model FOG Ordinance

Abstract: An ordinance to abate fats, oils and grease (FOG) is part of a comprehensive approach to Capacity, Management, Operations and Maintenance (CMOM). US EPA found that grease from restaurants, homes, and industrial sources are the most common cause (47%) of reported sewer blockages. FOG abatement is a pretreatment requirement. But, overlapping jurisdictions impact utility efforts. Installing FOG abatement equipment is in the jurisdiction of the plumbing code. Oregon Health Authority and the Oregon Dept. of Agriculture requirements cause FOG discharge. The OR-ACWA model ordinance helps utilities adopt an ordinance that collaborates with other jurisdictions.

CEU Relevance Statement: Most NPDES permits include requirements to prevent and report sanitary sewer overflows. FOG interference has proven to be a significant cause of sanitary sewer overflows. Pretreatment program coordinators and wastewater collection operator can work together on FOG abatement efforts. But such efforts must have a strong ordinance that leverages the full authority of the utility's jurisdiction. This presentation offers a model for building a strong FOG abatement ordinance.

Author: Jill Hoyenga

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Organization: City of The Dalles, OR

Primary Job Duties: Jill has worked at the City of The Dalles Public Works Department since 2017. She is responsible for ensuring that the City is in compliance with water, wastewater, stormwater and transportation regulations. She manages the Industrial Pretreatment Program for the City, which includes a robust FOG abatement program. She served on the Oregon Association of Clean Water Agencies FOG Working Group that developed the model ordinance and served as primary author of the model.

Related Prior Employment: Jill was previously employed at Eugene Water & Electric Board for 27 years. In that capacity she was a certified Cross Connection Specialist and Backflow Assembly Tester, and a State of Oregon authorized instructor for both certification and re-certification courses. She has over thirty years of experience working in the water industry.

Registrations or Certifications: Jill earned a Bachelor of Science in Management and a minor in Environmental Studies from Linfield College, Oregon. She is currently serving as chair of the Conference Program Committee for the Pacific Northwest Section of the American Water Works Association. Jill remains a certified Oregon Water Distribution I as well as an Oregon Cross Connection Specialist.