

Kennewick 2023 Conference Program Schedule

Assigned CEUS: Oregon, 2.0 Drinking Water; Washington, 2.0 Drinking Water

2023 Conference Program Schedule

DRAFT - April 26, 2023

Attendees from Idaho will receive a certificate with an Oregon accreditation number per the Idaho Administrative Code Bureau of Occupational Licenses IDAPA 24.05.01.500 i. 0.4 Approved Courses. Those continuing education courses which are relevant and approved by the states of Nevada, Oregon, Montana, Utah, Wyoming, and Washington are deemed approved by the Board. (2-26-08)

Assigned CEUS: Oregon, 2.0 Drinking Water; Washington, 2.0 Drinking Water

Wednesday, May 3							
Morning	Morning Pre-Conference Seminar						
Room	A & B (cap 100)	C (cap 120)	D (cap 120)	E & F (cap 120)		G (cap 130)	H (cap 130)
Hosting Committee	Treatment			Distribution		Engineering	
Preconference Seminar	PFAS Solutions Part 1			A Comprehensive Look at Municipal Installation of High Density Polyethylene (HDPE) Pipe Part 1		Hydraulic Modeling & Pumping	
Moderator	Sean Thomson			Brian Murphy		Nick Augustus	
8:30	145-Treatment selection and design for PFAS management in a changing regulatory environment (30 min) Joanie Stultz			36a-An Overview of Construction Installation Methods (60 min) Peter Dyke		16-Maximizing Booster Station Efficiency (30 min) Jason King	Reserved for Meet & Greet
9:00	53-Developing a PFAS Treatment Approach (30 min) Mehrin Selinger						
9:30 - 9:45	Break						
9:45	66-PFAS Mitigation Strategy and Lessons Learned by a Regional Water Provider (30 min) Marshall Meyer			36b-Open Cut Installation (60 min) Drew Mueller		34-Dual Challenges of Portland's Bull Run Filtration Pipelines Project: Minimizing Head loss and Optimizing Flow Control (30 min) Brad Phelps	
10:15	69-Removal of PFAS in groundwater: practical lessons and forward-looking planning (30 min) Chris McMeen					73-Leveraging Hydraulic Modeling Tools for Pump Selection in Closed Water Systems (30 min) Chadwick Johnson	
10:45 - 11:00	Break						
11:00	60-In Search of..... PFAS (30 min) Alex Mofidi			36c-Horizontal Directional Drill (60 min) Dan Landy		86-Distribution System Flushing: Conventional, Unidirectional, and No Discharge Methods (30 min) Dylan Bright	
11:30	12-Planning and Design of 18 MGD IX PFAS Treatment in Colorado (30 min) Laurie Sullivan					97-How Can I Make Sense of Demand Data, for Hydraulic Models and Everyone Else (30 min) Matt Huang	

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Afternoon	Afternoon Pre-Conference Seminar						
Room	A & B (cap 100)	C (cap 120)	D (cap 120)	E & F (cap 120)		G (cap 130)	H (cap 130)
Hosting Committee	Research			Distribution		Engineering	
Preconference Seminar	PFAS Solutions Part 2			A Comprehensive Look at Municipal Installation of High Density Polyethylene (HDPE) Pipe Part 2		Reservoirs	
Moderator	Debora Newby			Brian Murphy		Douglas Lane	
1:00	70-Communicating about PFAS While Maintaining Public Trust (30 min) Libby Barg-Bakke			36d-Pipe Bursting and Sliplining (60 min) Dan Landy		40-City of Kennewick Reservoir Evaluation & Replacement (60 min) Erik Peterson	Reserved for Meet & Greet
1:30	5-A PFAS Journey - Vancouver Approach to Widespread Source Detections (30 min) Tyler Clary						
2:00 - 2:15	Break						
2:15	136-Not-So-Forever Chemicals: Field Demonstration of PFAS Destruction by a Pilot-Scale Nanofiltration and UV-Sulfite Treatment Train (30 min) Charlie Liu			36e-Above Ground Installations (60 min) Drew Mueller		120-Rehabilitation Options for Aging Concrete Water Storage Reservoirs (60 min) Jamin Ankeny	
2:45	131-When PFAS is only half the battle: Treating multiple contaminants with a series of media (30 min) Stephen Timko						
3:15 - 3:30	Break						
3:30	27-Thermal destruction of PFAS during full-scale reactivation of granular activated carbon from water treatment (30 min) Adam Redding			36f-Repair Methods for HDPE (60 min) Peter Dyke		128-Baffled by CT? How Anacortes used baffle design and clearwell redundancy to streamline compliance (30 min) Tara Randall	
4:00	24-Yorba Linda Water District Installs Largest Ion Exchange PFAS Water Treatment Plant in US (30 min) Kelsey Hakes					146-The Balance of Conservation and Storage (30 min) Michelle Johnson	

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Thursday, May 4							
Morning	Thursday Early Bird Session						
Room	A & B (cap 100)	C (cap 120)	D (cap 120)	E (cap 60)	F (cap 60)	G (cap 130)	H (cap 130)
Hosting Committee	Utility Management	Research		Water Resources			Distribution
Moderator	Ann Hajnosz	Stephen Timko		Jacob Krall			Stephen Deem
7:00	2-Improvise, Adapt and Overcome: Using Failure as an Asset (30 min) Dick Talley	149-PFAS Addressing State and Federal regulatory changes-what's next (60 min) Mike Meens		35-Water Supply Well Condition Assessments: Real-World Applications and Results (60 min) Panel Presentation facilitated by Kevin Lindsey			49-How to Manage an Aging Control Valve System (60 min) Steve Causseaux
7:30	91-Asset Management Culture and Workplan (30 min) Andy Tuchscher						
Morning	Thursday Morning Technical Session						
Room	A & B (cap 100)	C (cap 120)	D (cap 120)	E (cap 60)	F (cap 60)	G (cap 130)	H (cap 130)
Hosting Committee	Utility Management	Research	Treatment	Water Resources	Diversity & Inclusion	Engineering	Distribution
Moderator	Ann Hajnosz	Stephen Timko	Jolyn Leslie	Jacob Krall	Randy Black	Dan Schafar	Andrew Klempel
8:30	14-Building A Small Systems Support Network (30 min) Jamie Porter	152-Reframing the Conversation around Emerging Contaminants (30 min) Rachel Garrett	33-Gas Chlorine is Still Used for Disinfection - Designing for Safety (30 min) Stephen Nuss	39-Data Dashboards: Who, What, When, Where, Why, and How (30 min) Emma Martin	100-Retaining Talent a Panel Discussion (60 min) facilitated by Benedicte Diakubama	7-Permitting 101: Expectations And Strategies For Your Project (30 min) Sean Thomson	50-If Check Valves Were Cars: Style, Selection, Performance (60 min) Steve Causseaux
9:00	23-Mentoring: Still the Critical Path (30 min) Kimberly Kelsey	89-Impact of PFAS on Tacoma Water's Groundwater Supply and Corrosion Control Strategy (30 min) Beth Mende	82-Converting from Chlorine Gas to Sodium Hypochlorite at the Meadowlark Water Reclamation Facility (30 min) Heather Burns	143-Seeing the Future: Using GIS for Enhanced Planning and Forecasting of Well Maintenance and Life Cycle Costs (30 min) Kelsey Mach		8-Planning for Success - Adding Resiliency to Water Supply via Horizontal Directional Drill (30 min) Kenneth Packard	
9:30 - 9:45 Break							
9:45	118-Infrastructure Capital Funding Programs Panel Discussion: Program Updates, Strategies, and future Development (60 min) Chris McCord	113-Toxic Additives in Microplastics Desorb into Drinking Water Matrices (30 min) Husein Almuhtara	88-Improving Chemical Supply Resiliency - Transition from Gas to On-Site Hypochlorite Generation for a Large 1500 PPD System (30 min) Joshua Kennedy	83-Integrated Modeling to Optimize Ecological and Agricultural Water Supply Enhancement (30 min) Jason Keller	59-Filling your Bucket: Diverse Discussion Panel on Recruitment (60 min) facilitated by Asa Reyes-Chavez	65-Successfully Tackling High Risk Design: Lessons Learned from the WWSP's Construction of the Raw Water Facility Project (30 min) Jennifer Minton	54-What's the Big Deal with Big Pumps? (30 min) Daphne Marcyn
10:15		107-Microplastics Removal in a Dynamic Coagulation-Flocculation-Sedimentation System (30 min) Robert Andrews	84-Round Tank in a Square Door: How to fit an OSHG System into an Existing WTP (30 min) Joanie Stultz	85-Pollutant Load Modeling Webtool for Source Water Protection (30 min) Jamie Feldman		93-Developing an Effective Permitting Strategy for your Water Supply Project (30 min) Jennifer Miller	1-Water Loss Reduction Techniques (60 min) Mike Uthe
10:45 - 11:00 Break							
11:00	30-Machine Learning / Artificial Intelligence (ML/AI) Applications for Small Systems (60 min) Mike Grimm	101-Machine Learning in Water Coagulation Optimization (30 min) Benedicte Diakubama	44-Successful Installation and Operation of a full-scale Hypolimnetic Oxygenation System for T&O Control (30 min) Daniel Mosiman	135-Using ESRI's GIS Technology to further Tacoma Water's AMI (Automated Metering Infrastructure) program (60 min) Andy Simpson	117-An Equity Journey Begins at Tacoma Water (30 min) Rochelle Gandour-Rood	115-Dog River Pipeline: Replacing a 100-year-old Wooden Pipeline to Secure a Resilient Water Future (60 min) Brady Fuller	80-Condition Assessment of Large Diameter Pipe (60 min) Glenn Edgemon
11:30		124-Making Conventional Treatment Cutting Edge Technology - Process Optimization Using Advanced Data Analytics (30 min) Damon Roth	102-Leveraging a Digital Twin to Implement Complex Control Logic at the 3Kings Water Treatment Plant (30 min) Stephanie McGregor		19-Everyone on Board: Advancing Equity Within Different Organizational Cultures (30 min) Nicki Pozos		
12:00 - 1:30 Vendor Lunch							

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Afternoon	Thursday Afternoon Technical Session						
Room	A & B (cap 100)	C (cap 120)	D (cap 120)	E (cap 60)	F (cap 60)	G (cap 130)	H (cap 130)
Hosting Committee	Utility Management	Water Quality	Treatment	Water Resources	Public Information	Engineering	Distribution
Moderator	Kim Reid	Emilia Blake	Amy Gao	Kenny Janssen	Andrea Watson	Erika Murphy	Andrew Klempel
1:30	132-Environmental Justice and Water Equity Private Sector Alliance - Partnering with Utilities (30 min) Andrew Nishihara	71-The Changing Regulatory Picture of Manganese (30 min) Helene Baribeau	129-The Revitalization of Water Infrastructure: Modernizing and Expanding a 100-year-old Water Treatment Plant (30 min) Emily Palmer	37-Groundwater Level Declines: Not Just an Odessa Groundwater Management Area Challenge (30 min) Kevin Lindsey	58-What could go wrong? The challenges of communicating during construction (60 min) Marlys Mock	56-Incorporating Additional Resilience Measures through Operational and System Control Strategies now that the Design is Complete for the Willamette Water Supply System (30 min) Mike Britch	3-Fire Hydrant Maintenance, Operation and iHydrant (60 min) Vaughn Barber
2:00	21-Public Private Partnership is Micro Hydro Installations (30 min) Sam Shipp	62-How Widespread is Manganese in Drinking Water? (30 min) Andy Eaton	126-Evaluation of Membrane Technologies and Options for Meeting the Ultimate Capacity Demand at Kennewick WTP (30 min) Pierre Kwan	68-A Study in Proactive Water Supply Planning (30 min) Kelsey Mach		67-Trailer to Tap: Maintaining a City's Water Supply While Replacing it's 100-year Old WTP (30 min) Danielle Kalmbach	
2:30 - 2:45	Break						
2:45	32-City of Vancouver's Water Resiliency Strategy - Using different financial levers to raise revenues. (30 min) Chris Malone	63-Comparing Manganese Treatment Technologies (30 min) Philip Brandhuber	144-Finding the Best Option for Upgrading JWC's Chlorine Gas Disinfection System (30 min) Connor Mancosky	51-All's Well that Ends Well -- Implementing Eugene Water and Electric Board's Emergency Well Program (60 min) Nathan Endicott	15-That was Then, This is Now: Communications in an Everchanging COVID Environment (30 min) Tacy Steele	87-Seismically Resilient Transformation of the Medford Water Duff WTP (30 min) Joshua Kennedy	47-77,000 Service Lines Identified in 1,000 days - GIS to the Rescue (30 min) Patrick Craney
3:15	26-Financing the Cascade Groundwater Development Program with a WIFIA Loan and Revenue Bonds (30 min) Kari Duncan	55-Legacy Manganese Issues in Distribution Systems (30 min) Andrew Hill	76-High Rate Filtration Pilot Study and the impacts of the Chlorine Shortage (30 min) Tessora Young		122-Customer Information System Conversions: Lessons Learned (30 min) Kristen Zimmer	142-Installing Earthquake Resilient Water Mains in Constrained Corridors (30 min) Sarah Merrill	127-Elevated Water Storage Tank Assessment and Rehabilitation – Extending the Service Life of our most Visible Infrastructure (30 min) Matt Hickey
3:45 - 4:00	Break						
4:00	162-Asset Management Plan: Lessons Learned (30 min) Chris Guest	57-Main Cleaning and Control Strategies for Legacy Manganese (30 min) Andrew Hill	156-Enhancing Drinking Water Treatment Resilience to Wildfire Events (60 min) Lynn Stephens	155-Groundwater Depletion and Municipal Supply Resiliency in the Columbia Basin, Washington (30 min) Walter Burt	141-Engaging the Community in the Affordability Challenge (60 min) Libby Barg-Bakke	116-The Cascade Groundwater Alliance: Groundwater Development Project Program Overview Update and Package 1 Construction (60 min) Brian Ginter	31-Setting Up for Success: The City of Hillsboro's Comprehensive Approach to Pipeline Replacement Project Prioritization (30 min) Preston Love
4:30	160-Lessons Learned from School to Design (30 min) Michelle Horio	151-Manganese Landscape in Washington: Occurrence, Challenges, and Regulatory Perspective (30 min) Jolyn Leslie		158-Managing for the Future: Building Drought Resiliency and Reliability into Municipal Water Supply (30 min) Tyson Carlson			90-Challenges extending Earthquakes Resilience to hydrants and water services (30 min) Daniel Shafar

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Friday, May 5							
Morning	Friday Early Bird Session						
Room	A & B (cap 100)	C (cap 120)	D (cap 120)	E (cap 60)	F (cap 60)	G (cap 130)	H (cap 130)
Hosting Committee	Utility Management	Cross Connection			Diversity & Inclusion	Engineering	Distribution
Moderator	Kimberly Kelsey	Jessica Shaw			Randy Black	Greg Loscher	Brian Murphy
7:00	28-The Future Ain't What it Used to Be: Dealing with uncertainty in climate projections (60 min) John Phillips	109-Game on! Come Roll the Dice on Water Complaints (60 min) Darci Mattioda			18-Responsive Support for Disadvantaged Businesses (30 min) Jessie Maran	138-No Exceptions Taken - Construction Submittal Review 101 (30 min) Josh Yung	29-Use of Fusible PVC in Adverse Conditions: corrosive soils, expansive soils, slope stability and for seismic resiliency (60 min) Jeffrey Rosenlund
7:30					108-Improving Disability and Language Access (30 min) Sarah Messier	20-Engineering Departments - Going Digital. Moving beyond spreadsheets, blueprints and paper maps (30 min) Stephen Dennehy	
Morning	Friday Morning Technical Session						
Hosting Committee	Utility Management	Cross Connection	Treatment	Water Resources	Conservation	Engineering	Water Quality & Distribution
Moderator	Kimberly Kelsey	Jessica Shaw	Scott Allis	Andrew Austreng	Dan Denning	Bill Reynolds	Emilia Blake
8:15	17-Understand The Tools in Being a Good leader (60 min) Randy Black	163-Fire Sprinkler System Standards (60 min) Gary Honald	64-Coagulation 101 (30 min) David Pernitsky	48-Developing a Strategic Source Water Protection Plan for Oregon's Largest Watershed (30 min) Christina Walter	11- Evolving Approaches to Public Outreach on a Regional Scale (30 min) Bonny Cushman	77-Upgrading Pendleton's Infrastructure to Support Development at the Top of Its Water System (30 min) Taylor Spencer	99-Navigating the New Lead and Copper Rule Requirements & Leveraging Available Funding (30 min) Lauren Wasserstrom
8:45			9-How Long is Too Long? Evaluating Extended Biofilter Shutdown at Hayden Bridge (WRF #4984) (30 min) Michael McKie	81-Development of a Watershed Protection, Monitoring, and Outreach Plan for the Willamette Intake Facilities Commission (30 min) Jacob Krall	10-Curtail Your Enthusiasm: How we exercised our conservation management plans and other regional projects (30 min) Bonny Cushman	140-Evaluation and Improvements Design of the Cloud Cap Inn Water System, Mt Hood, Oregon (30 min) Alex Bargmeyer	130-Preparing for LCRR Compliance Part I: Service Line Material Inventory (30 min) Helene Baribeau
9:15- 9:30 Break							
9:30	4-Emergency! Who's In Charge? (60 min) Brian Murphy	103-Reviewing Building Plans for Cross Connection Control (60 min) Jessica Shaw	137-Deep-Bed Filters: State of the Art and Lessons Learned (30 min) David Pernitsky	166-Forecasting Daily Streamflow to Maintain a Critical Minimum Streamflow Target (30 min) Kevin Boggs	92-Seeing Purple: Design and Construction of the City of Beaverton's Non-potable Water System for Municipal Irrigation (60 min) Jason Melady	121-ShakeAlert and Water Systems: What Would You Do With 10 Seconds of Earthquake Early Warning? (30 min) Kelly Missett	125-Preparing for LCRR Compliance Part II: Beyond the Service Line Material Inventory (30 min) Damon Roth
10:00			95-Modified Tracer Testing Methodology for Long Detention Times (30 min) Andrew Nishihara	61-Source Water Protection Planning in an Agricultural Watershed (30 min) Joanna Lewis		159-A scenario approach to supply system planning positions Portland Water Bureau for a sustainable future (30 min) Mark Anderson	72-Lead and Copper Rule Revisions: Find-and- Fix Assessments, Even Without Lead Pipes. (30 min) Virpi Salo-Zieman
10:30 - 11:00 Break							
11:00	150-Building Effective and Efficient Project Management Teams (30 min) Rachel McGinn	105-Building a Robust Cross Connection Control Program (60 min) Brian McDaniel	96-Ozone Disinfection in Drinking Water: Back to the Basics (30 min) Tessoro Young	52-Tualatin River Drinking Water Source Area Impoundment Identification and Prioritization (30 min) Austin Orr	164-Developing an Equity Data Toolkit: building organizational capacity to identify, assess and mitigate water conservation service inequities (30 min) Maoloud Dabab	25-Funding Your Next Risk Mitigation Project (30 min) Sarah Lingley - suggested	134-Guidance for Using Pipe Rigs to Inform Lead and Copper Corrosion Control Treatment Decisions - Program Drivers (30 min) Melinda Friedman
11:30	153-Aligning Strategic Priorities and Level of Service to Improve Project Outreach Effectiveness (30 min) Holly Tichenor		114-Major Ozone Equipment Replacement: How to Increase Resiliency of Your Ozone System Amidst Supply Chain Issues (30 min) Kim Ervin	78-Upper Tualatin Wildfire Protection Plan (30 min) Jacob Krall	165-Integrated conservation planning and targeted implementation (30 min) Dan Denning	139-Diving into Water Rates and Project Financing - end of PAYGO? (30 min) Susan Burke	133-Guidance for Using Pipe Rigs to Inform Lead and Copper Corrosion Control Treatment Decisions - Design (30 min) Pierre Kwan
12:00 - 1:30 Awards Lunch							

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Afternoon	Friday Afternoon Technical Session						
Room	A & B (cap 100)	C (cap 120)	D (cap 120)	E (cap 60)	F (cap 60)	G (cap 130)	H (cap 130)
Hosting Committee			Treatment				Water Quality & Distribution
Moderator			Scott Allis				Emilia Blake
1:30	Top Ops		154-Bull Run water: Investigating coagulation, flocculation and sedimentation (60 min) Mojtaba Azadiaghdam				42-Oversight and Communication for Implementing Improved Corrosion Control Treatment (30 min) Yone Akagi
2:00							41-Regulatory, In Home, and Installation Monitoring for Implementing Improved Corrosion Control Treatment (30 min) Mac Gifford
2:30 - 2:45	Break						
2:45	Gimmicks & Gadgets		112-Advances and Challenges in Microplastic Sampling and Analysis of Drinking Waters (30 min) Robert Andrews				46-Rockwood Pipe Loop Study: Pilot Testing Challenges for Corrosion Control Optimization (30 min) Daniel Mosiman
3:15			111-Interaction of Microplastics with Per- and Polyfluoroalkyl Substances (PFAS) and Microcystins in Drinking Water (30 min) Husein Almuhtaram				104-Setting the Standard: City of Lacey pH Treatment Projects (30 min) Nathan Rostad
3:45 - 4:00	Break						
4:00			161-Approaches for Accelerating the Design and Construction of a PFAS Treatment Facility (30 min) Amy Gao - suggested				79-Water Quality: Seriously Consider the System (30 min) Chris McMeen
4:30			123-Nitrate Treatment for Groundwater Wells (30 min) Jeganathan				119-Using Bench-Scale Testing and Field Activities to Identify Distribution System Destabilization Risks from Water Supply and Treatment Changes (30 min) Alex Mofidi