

2019 Technical Program - Calendar Summary		Maximum CEUs Possible Oregon - 1.7 DW, 0.6 WW		Maximum CEUs Possible Idaho - 1.7 DW, 1.65 WW		Maximum CEUs Possible WDOH - 1.7, WDOE 1.4	
Morning	Wednesday Morning Pre-Conference Seminars						
Room	Spruce	Pine	Oak	Hemlock	Cedar	Discovery D	Discovery E
Hosting Committee - Moderator	Water Information Technology - Rob Barrett - <b>Full Day Seminar</b>	Water Treatment - Matthew Hewitt - <b>Full Day Seminar</b>	Engineering - Carmen Brown	Distribution - Brooke Barry	Training Coordination - Jeff Lundt		
Seminar	Using Excel to Perform Functions and Calculations for the Drinking Water Industry	Water Treatment Classroom	Utilizing Advanced Engineering Tools to Increase Value / Improve Delivery	Efficiency and Water Loss	Train the Trainer - Math for Operators		
8:30	Overview of Best Practices and Interpreting Operator Records to Determine System Supply Patterns - Jason Van Gilder, Kevin Wyckoff	Groundwater Treatment - Overview of Constituents and Technologies - Lee Odell	Covington Water District's Hydro-turbine and Grant Success in Western Washington - Tom Malphrus, Andrew Williamson	Cherry-Picking Pump Stations: Consolidating System Assets for Operational Flexibility - Nathan Rostad, Jay Hummel	Train the Trainer - Math for Operators - Jeff Lundt, Eric Schey		
9:00				Developments on Water Demand Projects from WRF - Michael Dirks			
9:30 - 9:45 Break							
9:45	Water Industry Spreadsheet Calculators	Treatment for Iron and Manganese and Related Constituents - Milt Larsen	A Rock in the River: Navigating Obstacles in the Quest for Energy Efficiency at Hannah Mason Pump Station, Portland Water Bureau - Mike Carr, Kate Conrad, Keith Walker	Washington State Water Audit Pilot Results and the Future of Water Loss Tracking - Kate Gasner	Train the Trainer - Math for Operators (continued)		
10:15		Formation, Degradation, and Treatment: Addressing Water Quality Challenges in Salem's ASR Wells - Ali Leeds, DeEtta Fosbury	Knowledge Development and Transfer - Sustainable Documentation - Alena Thurman, Gary Tollefson	Pioneering Water Loss Control - Groundbreaking Statewide Technical Assistance Programs - Kate Gasner			
10:45 - 11:00 Break							
11:00	Writing Water Industry Procedures, Tutorials and Training Documents	Vancouver Water Station No. 1 - Michelle Henry	How to Simulate Operation of a 320-MGD Conventional Water Treatment Plant - Qianru Deng	The Non Revenue Water Journey to Capturing More Revenue and Saving Costs - Travis Smith	Train the Trainer - Math for Operators (continued)		
11:30		Carol Curtis Water Treatment Plant - Lee Odell, Russ Knutson	The EchoWater Project: Leveraging Technology to Enhance Project Delivery - Leveraging BIM and 4D/5D Tools to Manage Multiple Construction Projects at an Operating Treatment Plant - Christina Brown, Ron Perkins, Vick Kyotani				

Afternoon	Wednesday Afternoon Pre-Conference Seminars						
Room	Spruce	Pine	Oak	Hemlock	Cedar	Discovery D	Discovery E
Hosting Committee - Moderator	Water Information Technology - Rob Barrett - <b>Full Day Seminar</b>	Water Treatment - Matthew Hewitt - <b>Full Day Seminar</b>	Engineering - Patrick Weber	Distribution - Aurelie Nabannon	Training Coordination - Jeff Lundt		
Seminar	Using Excel to Perform Functions and Calculations for the Drinking Water Industry	Treatment Plant Tours	Case Studies and Lessons Learned	Planning & Modeling	Train the Trainer - Reading P&IDs		
1:00	Lab	Travel to Carol Curtis Water Treatment Plant (1:00 - 1:30)	City of Vancouver Water Station 1 Upgrade Project - Site Electrical, Pump Station, Treatment, and Control System Replacement - Michelle Henry, Brittany Hughes	The Office Side of Water Main Flushing: How to Ensure Data is Collected and Distributed Efficiently During Annual Maintenance - Kevin Wyckoff	Train the Trainer - Reading Process and Instrumentation Diagrams - Jeff Lundt, Butch Perry		
1:30		Tour of Carol Curtis Water Treatment Plant - Russ Knutson	Water System Disinfectant Conversion - Chlorine Gas to On-site Sodium Hypochlorite Generation - Patrick Craney	Lessons From the Field - Design Improvements for Increased Sanitary Protection - Jolyn Leslie			
2:00 - 2:15 Break							
2:15	Lab	Tour of Carol Curtis Water Treatment Plant - Russ Knutson (1:30 - 2:30)	How to Decide, the \$500M Question - David Peters	Drones Need Water Too: Meeting Industrial Water System Demands in Pendleton's Airport Area - Lael Alderman, Bob Patterson, Brian Ginter	Train the Trainer - Reading Process and Instrumentation Diagrams (continued)		
2:45		Travel (2:30 - 3:00)	A Tale of Two Tanks: Construction and Assessment of a New and an Existing Steel Reservoirs - Pat Van Duser, Casey Ferguson, Jeff Fuchs, Wes Bleisner	Adding Transmission Capacity Without Bigger Pipes - Camas Downtown Supply Operational Improvements - Daniel Reisinger, Sam Adams			
3:15 - 3:30 Break							
3:30	Lab	Tour of Water Station No. 1 - Michelle Henry (3:00 - 4:00)	Keep It Down Out There! Pump Station Facility Noise Issues and Mitigation Design - Alan Burt, Joe Foote	Using GIS and Hydraulic Modeling to Save Time and Add Value - Doug Lane	Train the Trainer - Reading Process and Instrumentation Diagrams (continued)		
4:00		Travel to Conference Center (4:00 - 4:30)	Balancing Safety, Process Performance, and Costs in Design, Construction, and Operations - Kim Ervin	Combining Two Water Systems Into One - Matt Huang, Adam Bjornstedt			
Early Morning	Thursday Early Bird Sessions						
Room	Spruce	Pine	Oak	Hemlock	Cedar	Discovery D	Discovery E
Hosting Committee - Moderator	History - Catherine Howells	Public Officials - Len Englund	Engineering - Adam Donald	Distribution - Jenna Mariano	Research / Water Quality - Tom Bell-Games		
7:00	History of NW Utilities: Portland and Vancouver - Catherine Howells, Tyler Clary	Public Engagement Provides Valuable Community Input in Milestone Bull Run Water Treatment Decisions - Libby Barg, David Peters	A Tale of Two Tanks: Water Facility Planning and Design in Idaho Falls - Dennis Galinato	Water Well Rehabilitation & Asset Management: Maintaining Well Performance and Water Quality - Michael Judkins	Lessons Learned from Salem's 2018 Algal Toxin Event - Jude Grounds, Tim Sherman	(Set up General Session)	
7:30		Cross Connections We All Should Be Making Within Our Communities - Rich McConaghy, Suzanne Hebert	Fire and Water Unite: Providing Water System Improvements and Firefighter Training With a 103-foot-tall Reservoir - Marshall Meyer	Well Rehabilitation in Alaska Bush Country: Techniques to Improve Wellfield Productivity - Ida Fischer, John Koreny			

8:00 - 9:30									
Opening General Session - Discovery Ballroom									
Late Morning									
Thursday Morning Technical Sessions									
Room	Spruce	Pine	Oak	Hemlock	Cedar	Discovery D	Discovery E		
<b>Hosting Committee - Moderator</b>	<b>Young Professionals - Josh Miner</b>	<b>Water Resources - Kim Swan</b>	<b>Engineering - Doug Lane</b>	<b>Cross Connection - Tonya Reiss</b>	<b>Water Quality / Water Treatment - Matt Maring</b>	(Strike General Session, set up tech sessions)			
9:45	Cover Letter and Resumes: How To Stand Out in a Crowded Job Market - Kevin Wyckoff	Source Water Protection Basics 101 - Kimberly Swan	How Taking a Holistic Approach to Master Planning Can Provide Added Value - David Stangel	Nightmare on Worthen Street and Other Backflow Incidents - Jessica Shaw	Regulatory Perspective of Cyanotoxins in Oregon - Gregg Baird				
10:15		Developing a Source Water Protection Program in the Rogue River Basin - Craig Harper	Leveraging Industry Experience to Anticipate the Trade-offs of Alternative Water Supplies - Joanie Stultz, Lynn Stephens	Small Public Water System Cross Connection Control Program Development - Terry Pickel, Mary Howell	Blue-Green Algae Control from Source to Tap - Lee Odell				
10:45 - 11:00 Break									
11:00	Tapping into a Network: How to Make the Right Connections - Chris Young	The Path to Healthy Headwaters - Kimery Wiltshire	Feeding the Machine: Water Facilities to Keep Up With Development - Dennis Galinato	Test Fraud: How to Find Bad Testers and What Should/Can Be Done About Them - Scott Hallenberg	Combating Algae - Startup of the Bellingham Dissolved Air Flotation Facility - Joshua Kennedy				
11:30	Capitalizing on Generational Strengths: A MurraySmith Case Study - Shelby Asato	How to Communicate to Ratepayers and Build Capacity for Source Water Protection - Cathy Kellon	Waterline Alignment Modification for Land Use and Seismic Constraints - Joelle Bennett, Faride Abzade		A Bacteria That Acts Like a Plant? Demystifying Cyanobacteria and Their Toxins - Bryan Black				
Afternoon									
Thursday Afternoon Technical Sessions									
Room	Spruce	Pine	Oak	Hemlock	Cedar	Discovery D	Discovery E		
<b>Hosting Committee - Moderator</b>	<b>Young Professionals - Mike Pleasants</b>	<b>Water Resources - Andrew Austreng</b>	<b>Water Information Technology - Rob Barrett</b>	<b>Distribution - Doug Schlepp</b>	<b>Water Treatment - Mac Gifford</b>	<b>Cross Connection - Tonya Reiss</b>	<b>Public Information - Robin Pederson</b>		
2:30	Women in Leadership – Learning to Lead - Erika Schuyler	Reclaimed Water - New Water Solutions for Washington - Jacqueline Klug	Replacement of Legacy SCADA, Telemetry, & Control Systems: Planning, Budgeting, and Implementation - Rob Barrett	Seismic Facility Updates and Operational Planning - Mike Britch	Comparison of GAC vs PAC for DBP Reduction at Two WTPs With the Same Source Water - Todd Reynolds	State Regulations: Updates, Incidents, Differences - Bill Bernier (WA); Molly Keller & Scott Ruyle (OR); Anna Moody (ID)	What Do Your People Really Know? Summarizing Public Knowledge and Understanding of Drinking Water Issues in Today's Information-Rich World - Sean Thomson		
3:00	Self-Guided Leadership - Blaze Your Own Trail - Michael Lubovich	Siting, Characterization, and Preliminary Design for Groundwater Recharge and Watershed Augmentation, Kitsap County and Suquamish Tribe, Kingston Facility - Jonathan Turk, Tadd Geisbrecht, Barbara Zaroff, Bob Gatz	Assessing Maturity of GIS Programs with the SLIM GIM Model - Kevin Wyckoff	Water Industry Seismic Guidelines and Practice Updates - Mike Britch	Treatment Considerations for Surface Water T&O Issues - Kim Ervin		Communicating About Risk - Jaymee Cuti		
3:30 - 3:45 Break									
3:45	Keep Flowing, Don't Be Stagnant - Motivation Tools for Lifelong Success - Joanie Stultz, Kyle Wong	Domestic and Instream Flow Mitigation Strategies in Mission Creek - Mike Kaputa	Effective SCADA Graphics - Enable Situational Awareness - Michael Karl	Seismic Resilience of Two Water Lines: Case Studies in Everett, WA - Jeff Blakely, Richard Hefti	Preliminary Results of Portland's Treatment Pilot Study - Anna Vosa, Lynn Stephens	How to Do a Site Survey and Obscure Things to Look For - Dale Baxmann	The Power of "We" - Nicki Pozos		
4:15	How Saying Yes Can Derail Success - Lael Alderman	Evaluation of Municipal Residential Stormwater Reuse With Aquifer Storage and Recovery - Jason Melady		Existing Steel Reservoirs – Retrofit or Build New? - Myron Basden	Portland Water Bureau's Improved Corrosion Control Treatment Project - Michelle Cheek	A Fully Web-Based Cross Connection Control Program: How TVWD Made the Leap - Joel Cary			

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Room	Spruce	Pine	Oak	Hemlock	Cedar	Discovery D	Discovery E
Hosting Committee - Moderator	Water Resources - DeEtta Fosbury	Public Information - Robin Pederson	Engineering - Greg Loscher	Distribution - Bill Reynolds	Water Quality - Jessica Dorsey	Utility Management - Andy Tuchscherer	Wastewater Treatment - Eric Schey
8:30	Managing Alluvial and Confined Aquifers Across the Washington-Oregon State Boundary in the Walla Walla Subbasin - John Warinner	Get Your Kit Together - Bonny Cushman	Is Alternate Project Delivery Appropriate for My Project? - Dick Talley	Storage Facility Inspection and Maintenance – Tools and Tips - Alex Chen, Joe Herold	Proactive Treatment Solutions for PFAS Drinking Water Contamination – Coupeville/Navy Fort Casey WTP Improvements - Esther Chang, Andrew Ryder	Transitional Leadership in the Electronic Age - Timothy Murrell	How to Optimize Polymer Efficiency for Better Sludge Dewatering - Two Case Studies - Yong Kim
9:00	Know No Boundaries: Creative Use of Storage for Trans-boundary Water Management in the Klamath Basin - Ronan Igloria, Jason Melady	Disaster Sanitation – What Can Water Utilities Do? - Libby Barg, Eric Frank	Part 1 of 2 - Progressive Design Build for a 5 MG Water Tank? TVWD's Unique Approach for Replacing a 5 MG Water Tank - Nicholas Augustus, Andrew Barrett, Corie Moolenkamp	Concrete Tank Rehabilitation: Why Coat Concrete Structures in Water and Wastewater Systems - Jeff Austin	PFOS/PFOA Contamination of Groundwater at the City of Airway Heights - Kevin Anderson	How to Attract and Keep a Younger Workforce - Catherine Howells, Bob Andersen	Low Cost, Rapid Nitrogen Removal in Wastewater - Kirsten Sims
9:30 - 9:45 Break							
9:45	IWAC: Collaborative Management of a Shared Resource - Daniel Kegley	Using Planned Events to Normalize Utility ICS Activation - Jill Hoyenga, Jeannine Parisi	Part 2 of 2 - Progressive Design Build for a 5 MG Water Tank? TVWD's Unique Approach for Replacing a 5 MG Water Tank - Nicholas Augustus, Andrew Barrett, Arin Atiyeh, James Bledsoe	Leveraging AMI Data for Distribution System Modeling - Aurelie Nabonnand, Katie Nolan, Ed Wicklein	Corrosion Control Studies in the Pacific Northwest, Part 1 of 2: Use of Spreadsheet Tools to Understand Corrosion Control and Metals Release - Danbi Won	Retool Your Communications Program Utilizing Public Opinion Research - Marlys Mock, Libby Barg, Andrea Watson	Coordinating Equipment Manufacturer Package Control Systems and Existing Plant Control Systems - Richard Pearson
10:15	A Look Beneath the Surface: Developing a Transboundary Groundwater Governance Framework and Agreement for the Memphis Sand Aquifer - Holly Mondo		How to Use Design/Build For Your Next Project - Tom Paul	Improving Utility Operations through AMI Data Analytics - Robert Gustin	Corrosion Control Studies in the Pacific Northwest, Part 2 of 2 Corrosion Control Studies: Putting the Tools to Use - Virpi Salo-Zieman		
10:45 - 11:00 Break							
11:00	Portland's Multi-Faceted Approach to Groundwater Protection - Douglas Wise	Excellence in Communications Awards	CM/GC - Using Qualifications, Experience and Price to Select the Best Contractor - Erika Murphy	Navigating AMI - Central Point's Path to Selection - Micheal McClenathan, Nicole Kaiser, Steven Farabaugh	The Role of Contaminants of Emerging Concern in Aquifer Recharge Projects Using Reclaimed Water - Jeff Hansen	Where Do Good Ideas Come From? - Nicki Pozos, Katney Baird	Best Practices for Sodium Hypochlorite Storage and Metering Systems - Jeffrey Zahller
11:30	Taming the Wild – Understanding Risks and Responses to Water Supplies from Wildfires - Glen Leverich, Rodrigo Prugue		Alternate Project Delivery: Panel Discussion With Local Contractors - Advantages and Disadvantages of CM/GC, Progressive Design Build, and Design-Bid-Build - Erika Murphy, Steve Flett, Mark Bertolero, Tom Paul, TBD	Advanced Metering Infrastructure in Tacoma - Matt Hubbard	Operating Data and Lessons Learned from Sunny Slope Water Company's Microvi Nitrate Removal System - Kirsten Sims	Top Ten Public Works Leader Recipient - How, What, When, Where, & Why! - Bob Patterson	

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Hosting Committee - Moderator	Research / Water Treatment - Jenn Minton	Conservation - Shelley Searle	Engineering - Faride Abzade	Distribution - Erica Rodriguez	SAC Competitions	Utility Management - Kim Reid	Wastewater Treatment - Eric Schey
1:30	A Comparison of Treatment Technologies to Treat Algae Through Pilot Testing of a New Surface Water Source - Lynn Stephens, Ben Watson, Bill Persich, Joanie Stultz	A Look At Portland's Residential and Commercial - Portland Residential and Commercial Water Conservation Efforts - Jeff Sandberg, Penny Milton	The Challenge of Water on Guam: Balancing Supply, Demand, and Water Resource Policy - Michelle Sorensen	Lessons Learned in Using CIPP for Water Main Rehabilitation - Michelle Henry, Nathan Meuler	Gimmicks & Gadgets	The Next Generation of Seismic Vulnerability Analysis - Doug Lane	Headworks: Screening - Butch Perry
2:00	Treating Cyanotoxins with Activated Carbon - Ben Goecke		Cocktail Napkin or Four-Inch Binder? Rightsizing Your Project Management Plan - Mark Graham	Returning Water System Confidence with CIPP - Brendan O'Sullivan, Michael Linn, Rob Lee		In-Place Pipe Rehabilitation Utilizing Advanced 100% Solid High MIL Epoxy Lining Systems - Jeff Austin	
<i>2:30 - 2:45 Break</i>							
2:45	Using GAC and Ion Exchange Resins to Remove PFAS and Similar Compounds from Drinking Water - Ben Goecke	Love Your Graywater - Reuse and Communicating the Value of Water - Julie Smitherman	Smart Utility as a Technology Platform: From Design to Utility Management - Kevin Stively	30-inch Water Main Rehabilitation Design Case Study - Daniel Buonadonna	Top Ops	Larger Facility Needs, Constrained Site, Oh My! - Tom Lindberg, Jay Hummel	Headworks: Grit Removal - Butch Perry
3:15	Development of Technologies for Effective PFAS Removal and Destruction - YuJung Chang	Making the Case for Non-Potable On-site Water Systems - Chris Wanner	Building a Framework to Optimize CIP Delivery for Honolulu Board of Water Supply - Chris Cleveland	Ice Pigging: Advanced Pipe Cleaning Technology - Jeff Austin		Navigating a Boom: How Lakewood Water District Provides Information to External Stakeholders - Kevin Wyckoff	
<i>3:45 - 4:00 Break</i>							
4:00	Pacific Northwest Case Studies in Biofiltration - Austin Peters, Kari Duncan, Kim DeFolo, Ray Leipold, Tim Sherman	Making System Improvements Through Tracking and Validating Non-Revenue Water - Jeanne Finger, Andrew Chastain-Howley	Construction: Expect the Unexpected - Matthew Perkins	Cutting In a 16-Inch Tee During a Water Advisory - Don Lovas	Subsection Advisory Council Meeting	Strategic Asset Planning at the City of Vancouver - Elaine Huber	Considerations in Monitoring and Pre-Treating Brewery Waste - Ryan Salem
4:30	Biofiltration - Lynn Stephens	Hassalo on 8th - Wastewater Reuse - Thomas Puttman	Owner Implementation of New Technology - John Bowen	Practical Guide to Locating Water Pipes - Brian Moss		Using GIS to Assess Water Pipe Assets and Help Prioritize Capital Projects - Eugene Durshpek	