

Wednesday, May 7th

Preconference Sessions								
All Day								
Room	Ernest Bloch	John Philip Sousa	Scott Joplin	Seeger	Offsite	Mezzanine B/C	Mezzanine A	
Hosting Committee	Engineering/Research	Distribution	Water Quality	Water Resources	Cascade to Coast Subsection/Water Treatment	Distribution/Water Loss Control	Young Professionals	
	Pipeline Design, Construction and Maintenance	Tanks - Planning, Retrofit, Replacement	Pressure Loss Management in Distribution Systems	The Nuts and Bolts of Developing a New Water Source	Surface Water Filtration	Cost Effective Water Loss Control		
Moderator	Lynn Williams	Zach Wright	Joel Cary	Judi Ranton	Larry McCollum	Jim Meierotto		
1:00 - 2:00	Pipeline Condition Assessment Using External Condition Assessment - Carl Sharkey Developing Defect Codes for Condition Assessment - Kelly Derr, Ralph Gabriel	Investigating Tanks to Develop a Capital Improvement Plan - Lance Stevens	Effective Microbial Control Strategies for Main Breaks and Depressurization - Pierre Kwan	A New Supply for Washington County; Hillsboro & TVWD's Selection of a New Water Supply - Mark Knudson, Kevin Hanway Operations / Water Quality Planning Considerations When Adding a New Source to an Existing Distribution System - Mike Johnson	McKenzie Watershed: EWEB's Source Water - Karl Morgenstern	The Leak Stops Here and I Get Paid For It - Bryan St Clair	Fresh Ideas Poster Competition (See Schedule Details - Wednesday)	
2:00 - 2:15 Break								
2:15 - 3:15	Actionable Results - Leak Detection in Large Diameter Water Mains - Logan Fesenmair Design of 66" SFPUC Transmission Line to Withstand Fault Rupture - Rich Blackmun	Challenges, Opportunities, and Solutions in Implementing New "Terminal" System Storage Reservoirs - Matthew Maring, Corianne Hart	Utility Case Study: Boise - Highland View Depressurization Event - Camille Cegnar Utility Case Study: Portland's Recent Experience with Pressure Loss Incidents Resulting in Boil Water Notices - Yone Akagi	Water Infrastructure Financing Innovation Act - Todd Heidgerken Communicating with Customers, Boards and Commissions on Water Supply Decisions - Todd Heidgerken, Tacy Steele, Nicki Pozos	Saving Energy by Saving Water - Layne McWilliams			
3:15 - 3:30 Break					Plant Tour of EWEB's Hayden Bridge Water Filtration Plant and Microbiology Lab - Jonathan Woody			
3:30 - 4:30	Design and construction considerations for planning and implementation of trenchless construction methods for water conveyance projects. - Mark Havekost Getting out of the Trenches: Wter Main CIPP Rehabilitation - Daniel Buonadonna	City of Grants Pass, Reservoir No. 3 Replacement - Michael L. McKillip	Utility Panel Discussion: TVWD - Pete Boone Utility Panel Discussion: Response to Depressurization Events - Camille Cegnar, Yone Akagi, Peter Boone	Developing a New Partnership for a New Water Supply - Mark Knudson, Kevin Hanway Program Management Keeps New Supply System on Track for Lake Oswego – Tigard - Mike Prett, Joel Komarek	AWWA Free Water Audit Software Demo - Andrew Chastain-Howley			
CEUs	ID-0.6 / OR-0.6 / WA-0.6 (Must attend full day)	ID-0.6 / OR-0.6 / WA-0.6 (Must attend full day)	ID-0.6 / OR-0.6 / WA-0.6 (Must attend full day)	ID-0.6 / OR-0.6 / WA-0.6 (Must attend full day)	ID-0.6 / OR-0.6 / WA-0.6 (Must attend full day)	ID-0.6 / OR-0.6 / WA-0.6 (Must attend full day)		ID-0.0 / OR-0.0 / WA-0.0

Thursday, May 8th

Early Bird Sessions

Morning	Ernest Bloch	John Philip Sousa	Scott Joplin	Seeger	Mezzanine B/C			
Hosting Committee	Distribution	Research/Engineering	Water Resources	Research/Engineering	Membership	Empty	Empty	Empty
Moderator	Doug Schlepp	Lee Odell	Rob Annear	Carmen Nale	Catherine Howells			
8:00 - 9:00	Implementation of Reliable and Safe Backup Power Supply Systems for Municipal Facilities - Chris Roberts	Even Cowboys Need Good Data, Pendleton's GIS Development - David Stangel, Bob Patterson	Clearing Hurdles - Gaining Support and Securing Approvals for the Lake Oswego Tigard Water Partnership - Joel Komarek, Jon Holland	Water Well Asset Management Programs: A New Sustainable Approach to Maintaining Well Performance and Water Quality - Walter "Ray" Reece Jr., Randy Moore	Eugene/Springfield Water Systems: A History - Catherine Howells, Dave Embleton, Dean Hill/Jamie Porter, Lance Robertson	Empty	Empty	Empty
CEUs	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.0 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1			

Regular Technical Sessions

Afternoon	Ernest Bloch	John Philip Sousa	Scott Joplin	Seeger	Mezzanine A	Mezzanine B/C	Vista I	Vista II
Hosting Committee	Distribution/Small Systems	Water Treatment	Safety	Utility Management	Water Resources	Customer Service	Engineering	Water Quality
Moderator	Don Popoff	Scott Johnston	Mike Jacobs	Kim Anderson	Rob Annear	Tonya Reiss	Erika Murphy	Larry McCollum
1:30 - 2:30	Standardizing the Water Main Disinfection Process - Portland Water Bureau Method - Eloise Eccles	The Filter Less Graveled - Bill Evans	A Lack of Supervision Can be Costly - Scott Neufeld	Risk Governance - Implementation - Kim Linton	Oregon - Accessing Stored Water To Meet Multiple Needs in the Willamette Basin - Adam Sussman, Alyssa Mucken	Why History Matters: How We Got to Where We Are - Catherine Howells	Crandall Reservoir: A Case Study - Tyler Wubbena	Lessons learned from a Tier 1 Public Notice - Portland Water Bureau's experiences from two Boil Water Notice events - Scott Bradway
	Keeping the water running: Response to a catastrophic well failure - Jim Markley	Lessons Learned in Construction: 1 Year Into Construction of the Lake Oswego-Tigard WTP Expansion - Austin Peters, Kari Duncan					Selection and Design of an Irregular Shaped Reservoir to Satisfy Challenging Project Constraints - Mike Britch	Improving water quality data management for source and drinking water assessment - Jessica Dorsey
CEUs	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.0 / OR-0.1 / WA-0.0	ID-0.1 / OR-0.1 / WA-0.1	ID-0.0 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1
2:30 - 2:45 Break								
2:45 - 3:45	Dayton Springs Rehabilitation - Steve Sagmiller	Creative retrofit solutions to expand plant capacity by 20 mgd within an existing footprint at the Medford Water Commission - Ben Klayman	Are You Self-Insured? Do You Know What to Do When an OSHA Compliance Officer Visits? - Scott Neufeld	Tapping into the Price of Water: Regional Perspective - Andrew Nishihara	Washington - Finding Solutions to Water Resource Issues on the West Plains with Reclaimed Water at Airway Heights - Dennis Fuller, Albert Tripp	Customer Service is Everyone's Job - Jacki Masters	Portland Water Bureau's Tale of Three Reservoirs - Teresa Elliott, Jennifer Garbely	What does a California MCL for Hexavalent Chromium mean for water utilities in the Northwest? - Lee Odell
	City of Sandy PWB Intertie Project -- Challenges of Adding a New Water Supply - Matt Hickey	Retrofitting Aeration Treatment in 1930s Pump Station - Pierre Kwan		Meeting the Challenges of Financial Stability in Light of Decreasing Water Demand - Ann Hajnosz	City of Pasco's Water Resources Mangement Program - Ahmad Qayoumi			Perchlorate-Future Regulations and Treatment Alternatives - Bill Persich
CEUs	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.0 / OR-0.1 / WA-0.0	ID-0.0 / OR-0.1 / WA-0.1	ID-0.05 / OR-0.1 / WA-0.0	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1
3:45 - 4:00 Break								
4:00 - 5:00	Small Cities dealing with Big Projects - Jeff Ballard	Settling Improvements for DBP Precursor Removal - Kim Ervin	Risk Management for Water Utilities - Justin Carlton	Strategies to Address Infrastructure Funding Challenges - Dale Jutila	Idaho Developing New Sources of Municipal Supply - Dave Tuthill	Choreography Is Not Just For Broadway - Brian Murphy	Computational Fluid Dynamics (CFD) - The Solution to Complex Fluid Flow Problems - Kevin Nielsen	Important water quality considerations in the beer brewing process - James Emmerson, Craig Horrell, Steve Carper, Mercy McDonald
	Our Little Treatment Plant in a Trailer; Emergency Water Treatment - Kari Duncan	Arsenic Treatment Optimization - Lessons for the Field in the Past Few Years - Sam Perry			Developing a Surface Water Right Portfolio in Idaho - Bill Carr		Rapid, Collaborative 3D Modeling Improves Buy-In During Design - Austin Peters	
CEUs	ID-0.05 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.0 / OR-0.1 / WA-0.0	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.0

Friday, May 9th

Regular Technical Session

Morning	Regular Technical Session						
Room	Ernest Bloch	John Philip Sousa	Scott Joplin	Seeger	Mezzanine A	Mezzanine B/C	Studio 1 (HULT Center)
Hosting Committee	Distribution	Water Treatment	Engineering	Public Information	Public Officials - ALL WELCOME	Conservation	Empty
Moderator	Tom Keown	Qianru Deng	Jim Konigsfeld	Tacy Steele	Len Englund	Christine Hollenbeck	
7:30 - 8:30	Reservoir Assessment -- Rehab or Replace - Chris H Uber, Scott Woodbury	Challenge Testing Slow Sand Filtration with Raw Wastewater and Concentrated Cryptosporidium - Pierre Kwan	Gabbert Reservoir Rehabilitation and Siesmic Retrofit - Tom Boland	LT2 impacts on Portland Water Bureau - Teresa Elliott	A Critical Water Customer - Your Local Hospital - Sam Perry	Water Efficiency Programs for Low Income Customers - Sarah Santner	Empty
	The Road Built to a Successful Reservoir Project - Brad Phelps, Tyler Wubbena	Expanding Capacity and Treatment at an 80 MGD Surface Water Treatment Plant - Enoch Nicholson	Implementing an Onsite Sodium Hypochlorite Generation System (OSHGS) in an Existing Chlorine Gas Footprint - Jason King			Water Auditing and Recommendation Reporting for Small Businesses - Lucas Johnson, Stephanie Terrell	
CEUs	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.0 / OR-0.1 / WA-0.0	
8:30 - 8:45 Break							
8:45 - 9:45	Old and New Joined at the Hip: Two Water Systems, Two Concrete Reservoirs, Multiple Applications of Unique Solutions - Taylor Stockton, David Prock	Other Water Treatment Plant Residuals Dewatering Equipment: An Investigation of Screw Press Technology - Lynn Williams	Vancouver's Aging Reservoirs Seismic Evaluation - Tyler Clary, Jim Newell	Assuring Equity—Affordability—Competitiveness in Setting SDCs - Kevin Hanway	Past to Present: Decisions that Affect Us Now - Catherine Howells	Water Conservation/Water Quality Paradox - Jill Hoyenga, Rachel Lanigan	
	Making Water Facilities an Asset to a Community Park - Ed Olson, Matt Samitore	Design of a Corrosion Control and Ultraviolet Disinfection Facility for Groundwater - Andrew Szatkowski	Myrtle Creek's New Intake and WTP Insights! - Sean Negherbon				
CEUs	ID-0.05 / OR-0.1 / WA-0.0	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.0 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	
9:45 - 10:00 Break							
10:00 - 11:00	The Nine lives of Coliforms: Why Disinfection Fails 50% of the Time - LeRoy Y Palmer	Columbia WTP Membrane Replacement Project - Bill Carr	Solving Multi-faceted Challenges to Replace 1920s-built Outlet Facilities at the City Lake Reservoir in Port Townsend, Washington. - Birol Shaha, Ian Jablonski	New Approaches to Backflow Communications - Mark Snider	Use GIS to Download your Institutional Knowledge and Manage your Infrastructure - Neal Fraser, Kasey Hansen	Reducing Peak Hour Demand with Nozzle Retrofits: Three Year Evaluation - Jeff Petersen	
	Hydrant Flow Testing for Hydraulic Model Calibration - Douglas Lane	Chemical System Design: 30 Years of Lessons Learned - Mark Ryan	70 Degrees North: Unique Water Plant Design on the North Slope - Kysa Cronrath			Soil Moisture Sensors - Results of a Small Commercial Pilot Project - Judi Ranton	
CEUs	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.05 / OR-0.1 / WA-0.00	

Friday, May 9th

Regular Technical Session

Room	Ernest Bloch	John Philip Sousa	Scott Joplin	Seeger	Mezzanine A	Mezzanine B/C	Studio 1 (HULT Center)
Hosting Committee	Distribution	Water Information Tech	Engineering	Water Resources	Water for People	Water Quality	Competitions
Moderator	Dan Sleeth	Ronda Farmer	Tyler Clary	John Lambie	Clair Olivers	Milt Larsen	Doug Priest
1:30 - 2:30	Ice Pigging - Cleaning Mains With Ice - Randy Moore, John Kitchen	Water Utility AMI System for City of Yakima - Ken Alexander	High Performance Energy Management at the City of Vancouver - Tyler Clary	Oregon DEQ Recycled Water Regulatory Context - Connie Schrandt	Water For People Country Connections: Honduras - Eric Shey (No CEUs)	Nitrification Monitoring at the Portland Water Bureau: Comparing Standard and Novel Monitoring Techniques - Kimberly Gupta	Field Innovations (Gimmicks & Gadgets)
	Leak Detection Technology Using Helium - Randy Moore, Jeff Austin	Unified SCADA Reporting - Brian Kier	Going for the Gold: Using the ISI Envision Tool to Design the Ridgewood View Reservoir and Pump Station - Nicholas Augustus	Recycled Water in Eugene/Springfield, OR - Todd Miller	Engineering the Future in the Developing World - Colin Sherrill (No CEUs)	So You Think You're Prepared? Little Changes Can Cause Big Problems in a Water Distribution System - Jeff Coleman	
CEUs	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.0		ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1
2:30 - 2:45 Break							
2:45 - 3:45	Innovative Solutions in Pump Station Implementation and Design - Corianne Hart, Matthew Maring	As-built Documentation - Creating Something Useful - Donald G. Popoff	Piloting For a Filter Rate Increase - Chuck Kingston, Zac Bertz, Chandra Hingston, Chris Wilson	Adventures in Studying the Fate of Residual Chemicals in Reclaimed Water Infiltrated to Groundwater - Ben McConkey, Lisa Dennis Perez, Jeff Hansen	Water For People 101 & FUNdraising - Nikki Olson (No CEUs)	Getting the pipes clean! Tigard's experience with Unidirectional Flushing program startup - Andrew Hill, Aaron Beattie	Top Ops
	Working Hand in Hand: Getting Developer Buy-In for a City Owned & Operated Pump Station - Zachary Wright, Pat Everham	Improving System Management through Development of a GIS - Marshall Meyer, Dwayne Farmer	Improving System Efficiency Beginning with Meters - Michelle Johnson			Do You Flush? - Shad Roundy	
CEUs	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.0		ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1
3:45 - 4:00 Break							
4:00 - 5:00	Water Infrastructure Rehab: Cost-Effectively Rehabilitating Public Facilities Using Innovative Approaches - Jeff S Jones	Enabling the Mobile Field Worker with Real-time Intelligence - Michael Karl	The powerless pump - using a hydroturbine to drive a pump and bypass the power company - Eric Delfel, Dave Kaiser	Using Wastewater Effluent for Golf Course Irrigation - Jan Wellman	Empty	Reduction of THM's Within Storage Tanks Using Aeration - Randy Moore, Peter Fiske	Empty
	Improving Water System Reliability and Safety for a Small City - Marshall Meyer	Self-healing SCADA Communications Networks - Robert Barrett	Turning plant data into system optimization and water/energy efficiency tools - Ben Klayman	Small Community Wastewater Reuse Challenges – Ability and Willingness to Pay - Petra Scheutz		Using a recirculating aeration system to remove bromoform and other THMs - Russell Porter	
CEUs	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.0		ID-0.1 / OR-0.1 / WA-0.1	