

2020 Conference Program Schedule		Maximum CEUs Possible - Idaho - 2.0 DW, WW pending		Maximum CEUs Possible - Oregon - 2.0 DW, 0.6 WW		Maximum CEUs Possible - 2.0 WDOH, WDOE pending	
Morning		Wednesday, April 29 Morning Pre-Conference Seminars					
Room	101	102 A/B	102 C/D		202C	not available	not available
Hosting Committee	<b>Water Treatment - Joanie Stultz (Full Day Seminar)</b>	<b>Engineering - Carrie Pak</b>	<b>Distribution - Don Lovas</b>		<b>IESS / Water Resources - Michelle Johnson (Full Day Seminar)</b>		
Seminar	<b>Disinfection &amp; PFAS</b>	<b>Shaken, Not Stirred (Part 1)</b>	<b>Modeling &amp; System Management</b>		<b>Groundwater Supply Management: Basic Concepts and Practical Examples from a Regional Sole-Source Aquifer</b>		
8:30	Best Available Technology for Treating PFAS in Drinking Water - Mike Tallering	A New PVC Pipe for Shifting Ground - David Hughes	Starting with Why: Using Level of Service to Upgrade Our Water Planning Efforts - Nicki Pozos		Hydrology 1: How the Unique Spokane Valley – Rathdrum Prairie Aquifer Works - Seth Oliver		
9:00	Chlorine and Public Health: An Overview of Disinfection Systems - Kenneth Packard	Suitability of Butt-Fusion Joint PVC Pipe in Areas Prone to Ground Movement, Including Seismic Events - Jeffrey Rosenlund, Patrick Laidlaw	Minimizing Apparent Losses: An Analytical Approach to Revenue Recovery Through Prioritized Meter Testing and Replacement - Alex Puryear		Hydrology 2: Hydrologic Trends and Their Influence on Water Planning - John Porcello		
<i>9:30 - 9:45 Break</i>							
9:45	When the Hypochlorite Stars Don't Align: Choosing Between Bulk or On-Site Generation for PWB's Washington Park - Amanda Mesick, Juanita Hess	Earthquake Resistant Ductile Iron Pipe (ERDIP) as a Counter-Measure Against Tsunamis - Takaaki Kagawa	Not Your 1990's Vintage Hydraulic Model: How Advancements in Modeling Can Be Employed to Reconfigure and Optimize Distribution System Configuration and Operations, Identify a Cost-effective CIP, Manage Water Quality, and More - Dave Harms, Denny Clouse		Resource Management 1: Water Use and Planning in the Idaho Panhandle Portion of the SVRP Aquifer - Terry Pickel, BiJay Adams		
10:15	Advances in PFAS Treatment - Bench, Pilot, and Full-Scale Results - Pierre Kwan, Bob York, Greg Keith, Beth Mende	Earthquake Resistant Ductile Iron Pipe (ERDIP) - Considerations for Public Water Conveyance - Tim Tobin	Raising Pressure the Right Way: Solving One Problem Without Creating More - Doug Lane		Resource Management 2: Purveyor-Driven Forums and Mechanisms for Locally-Based Resource Management - Jeremy Jenkins, Terry Pickel		
<i>10:45 - 11:00 Break</i>							
11:00		Achieving Resiliency for Critical Non-Structural Water System Components - Mike Britch	Building a UDF Program - Christina Suto		Resiliency: A Well-Aligned Well Repair Assessment - Kenny Janssen, Joe Foote		
11:30	Overview - Airway Heights PFAS Facility - Paul Stull, Kevin Anderson, Shane Dougherty	Code Minimum, Is the Minimum Enough? - Matthew Perkins	Understand and Proactively Manage Your Water System Faster & More Efficiently with Integrated Pressure & Temperature Sensors - Michele Harvey		Water Quality: Protecting Groundwater Quality Locally and Regionally Through Spokane Aquifer Joint Board and Aquifer Protection Districts - Jeremy Jenkins, BiJay Adams		

Afternoon	Wednesday, April 29 Afternoon Pre-Conference Seminars							
Room	101	102 A/B	102 C/D		202C	not available	not available	
Hosting Committee	Water Treatment - Joanie Stultz <b>(Full Day Seminar)</b>	Engineering - Faride Abzade	Distribution - Don Lovas		IESS / Water Resources - Michelle Johnson <b>(Full Day Seminar)</b>			
Seminar	Disinfection & PFAS	Shaken, Not Stirred (Part 2)	SCADA & Cybersecurity		Groundwater Supply Management: Basic Concepts and Practical Examples from a Regional Sole-Source Aquifer			
1:00	Field Trip - Airway Heights PFAS Facility - Paul Stull, Kevin Anderson, Shane Dougherty	Tohoku 2011 Earthquake and Tsunami Crisis: Resiliency Lessons Learned - Mike Britch	Introduction to SCADA Cybersecurity - James Swanson		Local Water Conservation: Committing to Water Conservation in Spokane - Kristen Zimmer			
1:30		Willamette Water Supply Program Riverbank Seismic Improvements - Jennifer Minton, Scott Schlechter, Mike Britch, Paul Kneitz			Regional Water Conservation: A Regional Model Ordinance for Landscapes - BiJay Adams, Terry Pickel			
2:00 - 2:15 Break								
2:15		City of Newport OR – Save Our Water Supply, A Small Town With An Expensive Problem - Verena Winter, Tim Gross	WRF Project #4917 Update: Utilizing Smart Water Networks to Manage Pressure and Flow for Reduction of Water Loss and Pipe Breaks - Michael Karl		Upriver Facility/Well Electric Well Station (Presentation and Tour) - Steve Burns, Doug Greenlund, Evariste Mulindangwe			
2:45		ShakeAlert Earthquake Early Warning - Beyond the Basics (Optimization & Enhancements) - Dan Ervin						
3:15 - 3:30 Break								
3:30		Among the Faults - WTP Upgrades in a Seismic Hot Spot - Don Barraza	Smart Utility - Advanced Analytics at Rainier View Water Company - Michael Karl, Ayman Alafifi					
4:00		Probabilistic, Cloud-Computing Assessment of Bellevue’s Water System Seismic Vulnerability - Kimberly Lawrence, Doug Lane, Enoch Nicholson, Matt Maring						

Thursday, April 30 Early Bird Sessions								
Morning	Room	102 A/B	102 C/D	202 A/B	202C	205	206A	206B
Hosting Committee	Research - Damon Roth	Water Treatment - Jay MacPherson	Membership Engagement	Water Information Technology - Rob Barrett	Engineering - Kathleen Manion	Distribution - Rachel Lanigan		
7:00	A Framework to Evaluate the Life Cycle Costs and Environmental Impacts of Water Pipelines - John Johnson	Lots of Progress, Lots of Work to Come: An Update on the Bull Run Treatment Program - Lyda Hakes, David Peters, Michelle Cheek	First Time Attendees Breakfast	Smart Cities, Smart Water - How IoT Devices are Transforming the City of the Future - Michele Harvey	Lessons from Mega-Projects for Your Midi-, Mini- and Micro-Projects - Mark Graham	Operators and Engineers Huddle to Win a Critical Pipeline Challenge - Sara Tannahill, Tom Lindberg		
7:30		Pilot and Bench Scale Testing of Cyanotoxin Solutions for the City of Salem - Nicole Williams, Rob Keller, Laura Southworth, Thomas Gillogly, Jess Brown		Making Sense, And Use, of Your SCADA Historical Data - Robert Barrett	Five Years In: Developing the Willamette Water Supply System - Joelle Bennett, Matt Duffy	Unidirectional Flushing - Lessons Learned - Aurelie Nabonnand, Susan Fenhaus, Josh Flanders		
Thursday, April 30 Morning Technical Sessions								
Morning	Room	102 A/B	102 C/D	202 A/B	202C	205	206A	206B
Hosting Committee	Water Resources - Andrew Austreng	Water Treatment - Enoch Nicholson	Public Officials - Judi Gladstone	Customer Service - Cathy Middleton	Engineering - Joelle Bennett	Distribution - Doug Schlepp	Young Professionals - Erica Rodriguez	
8:30	Adaptive Management Strategies for Drinking Water Supply in an Uncertain Future Climate - Kensey Daly, Tyler Jantzen, Kateryna Gomozova	Lakewood Water District's Ponders PCE and PFAS Treatment Facility - Milton Larsen, Randy Black, Stephen Timko	Northeast Spokane Water Quality Event - Dan Kegley, Dorothy Tibbetts	Providing Safe and Reliable Drinking Water: Two Small Water System Consolidation Projects in Liberty Lake, Washington - BiJay Adams	Rehabilitating Concrete Structures - A Look To Technology to Speed Up the Process - Eric Zimmerman	Hydraulic Grade Lines for Operators - Rachel Lanigan	Improve Your Public Speaking Without Saying a Word - Brian Murphy, Candace Au-Yeung	
9:00	SPU Wellfields Project: The Journey from Conventional ASR to a Mitigation Program - Tim Flynn, Ulysses Hillard	Clark Public Utility Well #35 Manganese Treatment Case Study - John Roth, Gary St. John		Clear Processes and Employee Engagement Are Critical for Success - Tonya Reiss	O Pipe, Where Art Thou? – Condition Assessment of 12 Miles of 24-inch Water Transmission Main - Erik Waligorski, Brian Sliger	Mobilizing Crews to Improve Field to Office Record-Keeping - Cort Wilson, Damon Schwetz	Time Management - Taking Back The Day - Candace Au-Yeung, Brian Murphy	
9:30 - 9:45 Break								
9:45	Water Systems and Declining Groundwater in the Columbia Basin - Benjamin Serr	Iron and Manganese Removal 101 - Brian Smith	Incident Command System for Public Officials: What's My Lane, How Do I Stay There, and Am I Still In Charge? - Chad Buechler	Unleashing the Power of Technology for Effective Communication and Organization - Laura Oxsen	Not Just a Day at the Beach: Balancing Competing Priorities While Upgrading An Inlet Station - Nathan Rostad	The Water System Design Manual: Updates in the 4th Edition - Samuel Perry	Effective Communication: Know Yourself First! - Aurelie Nabonnand	
10:15	Temperature Modeling In Support of Willamette Water Supply Program Permitting - Jacob Krall	Process Optimization Planning for Manganese Removal in Groundwater - Lee Odell		How Emerging Leaders Can Lead the Way - Michael Lubovich	Leveraging Pump Station Condition Assessments - Jeanne Finger			
10:45 - 11:00 Break								
11:00	Water Mitigation Pilot Projects - Challenges, Status, and Opportunities - Jason Van Gilder	Designing a Groundwater Treatment Facility with a Residential Appeal - Beth Mende	Too Big to Fail - Jolyn Leslie	AWWA 101: How to Get the Most Out of Your AWWA Membership - Natalie Reilly, Alena Thurman	Water Well Asset Management: Maintaining Well Performance and Water Quality - Michael Judkins	An Innovative Inlet: New Solutions to City Growing Pains - Marshall Meyer	Life After YP – An Elder Millennial Taking the Next Steps - Andrew Nishihara	
11:30	Snoqualmie Pass Utility District – Water Right Portfolio Optimization - Tyler Carlson	Design Cost Effective Groundwater Treatment Plants - Cindy Yeager	Water Rights: A Brief Introduction - Bobbie Gilmour	Engaging a Community in Water System Master Planning - Adam Steele	Portland Water Bureau Steel Conduit Assessments and the Technologies Used - Ashan McNealy	You Cannot Conserve Your Way Out of Infrastructure Improvements - Michelle Johnson, Branden Rose	How to Study for Professional Certifications and Exams - Laura Oxsen, Dan Sleeth	

12:00 - 1:30	Vendor Lunch / Division Meetings					Setup for Top Ops	
Afternoon	Thursday, April 30 Afternoon Technical Sessions						
Room	102 A/B	102 C/D	202 A/B	202C	205	206A	206B
Hosting Committee	Water Resources - Jeanne Finger	Water Treatment - Jolyn Leslie	Public Officials - Infrastructure Asset Management & Maintenance - Sara Broderius	Public Information - Kerry Aden	Engineering - Tom Boland	SAC Competitions - Bill Reynolds, John Roth	
1:30	The Spokane Valley-Rathdrum Prairie Aquifer - One Sole-Source Aquifer's History: Formation to Current Groundwater Protection Efforts - Jeremy Jenkins	Overcoming Logistical Challenges of Setting up a Large Complex Pilot Project: Bull Run Filtration Pilot Part 1 - Yone Akagi, Lynn Stephens, Mac Gifford, Kim Gupta, Tom Krause, Lyda Hakes, Damon Roth, Mia Vijanderan	Asset Management Defined - Jeff Austin, Mike Judkins, Chad Atcheson, Andre Noel	Salem's Cyanotoxin Response Update - John Kennedy, Dwayne Barnes, Jude Grounds	Emergency Repairs to a 32 MG Concrete Reservoir - Dave Muto	Top Ops	
2:00		Preliminary Findings from the Bull Run Filtration Pilot: Part 2 - Mac Gifford					
2:30 - 2:45 Break							
2:45	Got Waste? Put It in the Right Place! The SpokaneKootenai Waste Directory: How 2 States and 10 Agencies Are Collaborating to Protect Our Sole Source Aquifer - Tonilee Hanson	How the City of Sacramento Restored the Useful Life of 100 MGD Capacity Gravity Filters - Doug Henderson	The Asset Management Approach to Water Infrastructure - Jeff Austin, Mike Judkins, Chad Atcheson, Andre Noel	The (Cyanotoxin) Plan We Hope We Never Have To Use - Jill Hoyenga	Aging Infrastructure: With Over a Dozen Potable Storage Reservoirs of Various Sizes and Types, Where Do I Begin? - Travis McFeron, Nate Hardy	Gimmicks & Gadgets	
3:15	Choosing Cost Effective Solutions for Stormwater Projects - Marcia Davis, Raylene Gennett	Ozonation Operations 101 - Wilsonville and Lake Oswego - Kimberleigh Reid, Kari Duncan			A Standardized Evaluation and Scoring System for Water Storage Reservoirs - Marshall Meyer, Jen Otis		
3:45 - 4:00 Break							
4:00	Forecasting Daily Streamflow to Maintain a Critical Minimum Streamflow Target - Kevin Boggs	Effective Monitoring Strategies for Full-scale Conversion to Biofiltration and the Impact of Intermittent Operation - Michael McKie	Asset Management Planning and Procurement - Jeff Austin, Mike Judkins, Chad Atcheson, Andre Noel	Excellence in Communications Awards	We're Running Out of Space! Where to Site Your New Backbone Facilities - Adam Blair, Adam Bjornstedt	Fresh Ideas Poster Contest	
4:30	Implementing the "Hirst Fix" in the Little Spokane Watershed (WRIA 55) - Mike Hermanson	Ozone-Biofiltration Performance at SFPUC's 160-MGD Harry Tracy WTP - Alex Mofidi			Triple Play Saves Money: Extra Storage For Raw Water Turbidity and Managing Water Age - Matt Hickey, Andy Szatkowski		

<b>Morning</b>	<b>Friday, May 1 Early Bird Sessions</b>						
Room	102 A/B	102 C/D	202 A/B	202C	205	206A	206B
Hosting Committee	Distribution - Bryan St. Clair	Water Treatment - Jeff Tasoff	Water Quality - Tom Bell-Games		Engineering - Janice Bell	Research - Joanie Stultz	Utility Management - Diane Pottinger
7:00	Advanced Metering Infrastructure (AMI) - Is It Now Within Reach for Small to Mid-Sized Utilities? - Andre Noel	Water Treatment Updates to the Water System Design Manual - Samuel Perry, Jeff Johnson	Evaluation of Risk Factors for Integrating a New Supply - Joelle Bennett, Joel Cary, Jessica Dorsey, Priya Dhanapal, Stephen Booth, Virpi Sal-Zieman, Melinda Friedman, Danbi Won		Traffic Control and Other Considerations Drive Alignments for Large Waterlines in Congested Urban Streets - Mike Britch, Andre Tolme	Advancing Beyond Excel: Applying the R Software Environment for WQ Data Analysis - Damon Roth	Plans That Add Value to Capital Projects - David Dunn, Janet Cherry
7:30	Resiliency Through Distribution System Operational Excellence – Capturing the Other Half of the Resiliency Equation - Daniel Reisinger				Weaving a Pipeline Alignment through a Changing and Seismically Challenging Landscape - Faride Abzade, Tammy Cleys		

<b>Morning</b>	<b>Friday, May 1 Morning Technical Sessions</b>						
Room	102 A/B	102 C/D	202 A/B	202C	205	206A	206B
Hosting Committee	Cross-Connection Control - Terry Pickel	Water Conservation - Kristen Zimmer	Water Quality - Tom Bell-Games	Wastewater - Eric Schey	Engineering - Greg Loscher	Research - Gwen Woods-Chabane	Utility Management - Diane Pottinger
8:30	What Are These Crazy Things? Type II Detector Assemblies - Scott Hemingway	Water Conservation Programs & Curtailment Plans of Oregon Water Providers With WMCPs – An Overview of Approaches - Suzanne De Szoeki	Ammonia, Metals, and Iron Bacteria ... Oh My! - Andrew Hill	Use An Electronic O&M Manual As a Living Document For Knowledge Transfer and Storage - Pi Kosarot, Jeff Day	Reading the Crystal Ball: Today and Tomorrow's Demand Forecast - Preston Love	Unlocking Potential Treatment Capacity and Reducing Capital Cost - Michelle Peters	Integrated Capital Management Water - A Strategic Approach - Dan Kegley, Kara Heatherly
9:00		Developing the City of Spokane Water Conservation Plan - Doug Greenlund	Novel Bench-Scale Testing to Assess Impacts of Chemistry Changes on Galvanized Iron Pipe - Alex Mofidi		Updating and Using a Hydraulic Model to Answer System Questions - LaDonne Harris, Matthew Hubbard	Rainwater to Tap - Building a Group A Water System While Meeting the Living Building Challenge For an Office Building in Downtown Seattle - Russell Porter	
9:30 - 9:45 Break							
9:45	Cross Connection Control at Wastewater Treatment Plants - Bill Bernier, Scott Hemingway	Growing a Water Conservation Program: City of Redmond, Oregon - Suzanne De Szoeki, Josh Wedding	Lead & Copper Rule: Routine Monitoring and Site Selection - Matthew Hadorn, Kay Rottell	In House Work - (Shortliners, I&I, Construction & Safety) - Nate Kujawa, Rob Jamison, Matt Kelsey	Planning and Managing a System with a Bit of Everything - David Stangel, Frank Nicholson	Comparison of Activated Carbon and Biochar for Stormwater Reuse by Removing Organic Contaminants - Kyle Shimabuku	The Color Purple – Forming the City of Beaverton's Non-potable Water Utility - Ronan Igloria, David Winship, Jason Melady
10:15		Online Water Conservation Is Here! - Roger Ebbage, Brenda Cervantes	Corrosion Control Treatment and Required Monitoring - Kay Rottell, Matthew Hadorn		Employing Decision Science to Determine a Resilient Long-term Supply Strategy for Corvallis - Alena Thurman, Tom Hubbard	Designing High Rate Ammonia Removal Treatment for Groundwater - Lee Odell	How 8 Cities and Towns are Working Together To Address The Shortage Of Certified Operators
10:45 - 11:00 Break							
11:00	Small Public Water System Cross Connection Control Program Development - Terry Pickel	Building An Intelligent Water System - Joseph Dryer, Joseph French, Adrian Sutor	Tucson Water Turnaround: Crisis to Success - Michael McGuire	Challenging Sewer Bypass of King County's 96-inch Diameter Eastside Interceptor - Brian Sliger, Erik Waligorski	Maximizing the Investment in WTP Upgrades - Alicia Leeds, Jamie LeBlanc, Gary Tollefson	Innovative Approaches to Coagulant Control and Plant Optimization - Jeff Marrs	Workforce Opportunities - Chris McCord, Paul Bishop
11:30			Lead and Copper Reduction in the City of Olympia's Distribution System Through Corrosion Control Optimization at Source Water Facilities - Joe Plahuta	The Efficiency of an Emergency – A Case Study of Two Projects Completed After Declaration of An Emergency - Randy Harrington	Permitting Expectations and Strategies for Efficient Project Development - Sean Thomson		Developing Future Engineers and Protecting Public Health: Perspectives on Working With Student Groups - Chris Stoll, Bobbie Gilmour, Tom Keown
12:00 - 1:30 Awards Lunch							

Afternoon	Friday, May 1 Afternoon Technical Sessions						
Room	102 A/B	102 C/D	202 A/B	202C	205	206A	206B
Hosting Committee	Cross-Connection Control - Terry Pickel	Water Conservation - Doug Greenlund	Water Quality / Water Treatment - Matt Maring	Wastewater - Eric Schey	Board of Trustees	Distribution - Dan Reisinger	Utility Management / Engineering - Carmen Brown
1:30	How State Regulations Affect Purveyor Cross Connection Control Programs - Terry Pickel, Bill Bernier, Scott Ruyle	Innovative Irrigation Technology for Water Efficiency - Nick Hamad	Legionella and Building Water Systems - Steve Deem	Case Studies of UV Disinfection and Peracetic Acid Disinfection - Scott Weirich, David Kopchynski		Near Miss At Lincoln Heights Booster Station - Dan Kegley	The New and Improved DOH Water System Planning Guidebook - Jamie Gardipe, Brenda Smits, Fern Schultz, Scott Mallery
2:00		Maximizing Water Management Dollars While Bringing Transparency, Equity, and Multiple Benefits - Morgan Shimabuku, Sarah Diringer	How to Best Treat for Geosmin and Cyanobacteria - Selection and Optimization of Treatment Options for the City of Ashland, OR - Jeff Semigran			10 MG Reservoir Cleaning and Inspection Challenge - Managing a 200 gpm Inlet Leak - Jen Otis, Jim Goodman, Dave Beohm, Lance Matney	
2:30 - 2:45 Break							
2:45	Building an Educational Program for Cross Connection Control Personnel - Jeff Coleman	Regional Efficient Irrigation Design Standards - Kristen Zimmer, Bijay Adams, Craig Anderson, Terry Pickel	Predicting and Monitoring MIB, Sulfamethoxazole, and Cyanotoxin Removal By Powdered Activated Carbon - Kyle Shimabuku	Yelm SCADA Upgrades Increase SBR Treatment Reliability and Provide Operational Flexibility under One Wonderware License using a High Performance HMI - Brian Bunker, David Kopchynski, Glen Barcus	3:00 - Board of Trustees Meeting	A Case Study: Satisfying AWIA Requirements - Kevin Owens	The America's Water Infrastructure Act (AWIA) Risk Assessments and Emergency Response Plans - Karen Edwards-Lindsey
3:15			Evaluation of PFAS Removal with GAC using Rapid Small-Scale Column Testing - Stephen Timko			Preparing for the Big One: Tualatin's Water System Recovery Plan - Jeff Fuchs, Nicki Pozos, Brian Ginter	The 3 R's of AWIA – Risk, Resiliency, and Response – Assessment and Planning Lessons Learned - Dave Price
3:45 - 4:00 Break							
4:00	Best Practices in Backflow Preventer Installation and Protection - Carey Wiley	The Water Conservation & Stormwater Nexus - Kristen Zimmer	Removing PFAS: Startup and Performance of the Coupeville GAC Treatment System - Esther Chang, Matt Maring	How Regulation Changes Wastewater Collection Maintenance - Raylene Gennett		Pipeline Asset Management: The Benefits to a Pro-active Maintenance Approach - Chad Atcheson	Creating and Performing a Cybersecurity Tabletop Exercise - Kevin Owens
4:30		Stormwater Subsurface Storage and Reuse for Non Potable Irrigation and Streamflow Enhancement in Beaverton, Oregon - Jason Melady, David Winship, Priya Dhanapal, Marisa Fanguy	PFAS - Identifying Risk and Developing Drinking Water Rules - Mike Means, Barb Morrissey	Removal of Emerging Contaminants through Ozone-BAC: Influence of Activated Carbon Properties - Adam Redding		Tank Asset Management & Maintenance Programs: A Viable Alternative to Traditional Run-to-Fail Maintenance Procurement - Jeff Austin	