

OREGON ASSOCIATION OF WATER UTILITIES

# 43rd Annual Management & Technical Conference

March 1–5, 2021 • Sunriver Resort



## REGISTRATION INFORMATION & SCHEDULE

Due to COVID-19, all conference events and details are dependent upon the current State, County, and City requirements. In-person and virtual options available.



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## CONFERENCE EVENTS & INFORMATION

### Monday, March 1, 2021, Pre-Conference Classes

For those who want to earn extra CEUs, register for one of the Monday sessions. For more information, see the Monday Pre-Conference Schedule on page 3 and registration on page 7.

### Tuesday–Friday, March 2–5, 2021 Full Conference Classes, CEUs and Meals

Tuesday–Friday includes a variety of concurrent classes available with the ability to earn up to 2.4 CEUs. For specific CEUs, please see the full conference schedule. Full conference meals include 3 breakfasts, 3 lunches, awards banquet dinner, and 1 evening deli bar.



Sunriver Resort

### Lodging

Please make room reservations with Sunriver Resort by calling 800-547-3922, option 2. Call by February 4, 2021 and identify yourself as attending the Oregon Association of Water Utilities event.

*Lodge Village Guestrooms: Single \$135, Double \$150*

*Lodge Village Suites: Single \$199, Double \$199*

*River Lodge Guestrooms: Single \$195, Double \$195*

### Annual Banquet and Awards Program

Wednesday 6–9 pm; no-host bar 5:30–6 pm

The 2020 awards to be presented during the banquet are water, wastewater, manager and/or office manager, rookie, associate member, and friend of rural water.

### Nominations for 2020 Awards

**Recognize the outstanding employees at your utility for professional excellence and service in 2020. Please submit your nomination(s) for these awards no later than February 2, 2021.** Nomination forms are available online at [www.oawu.net](http://www.oawu.net) or through the OAWU office.

### Annual Best Tasting Water in Oregon

Join OAWU in their 26th year conducting the contest for the “Best Tasting Water in Oregon” and find out whose water will win a trip to Washington, D.C. to compete in the National Best Tasting Water contest. For the Oregon contest rules and information, please see the last page of this flier or contact the OAWU office at (503) 837-1212.

### Hospitality Night Social



#### Join OAWU Thursday for Exhibitor Hospitality Night!

The Hospitality Night Social will be held Thursday in the Homestead Hall, 5:30 pm – 8 pm. There will be a no-host bar, two beer kegs and exhibitor raffle prizes. You must be present to win exhibitor raffle prizes. Music in the Twisted River Tavern begins at 8:30 pm.

*Exhibit Hours: Wednesday 11:30 am – 5 pm & Thursday 7 am – 8 pm*



### Game Tournaments

Practice your ping-pong and cribbage for the annual tournament to be held in Homestead Hall during breaks and the Hospitality Night Social.

## Monday, March 1, 2021 Pre-Conference Schedule

0.6 Total CEUs

**GREAT HALL 9:00 AM – 4:00 PM**  
**Small Water System Training Course**  
 This course will cover the basics of water system operations. A review of the SDWA Amendments, the State Revolving Loan Fund, and security issues. Review of technical, managerial and financial needs of a small system. *Tim Tice, OAWU – 0.6 W / 0.4 WW CEUs ESAC #4328*

**LANDMARK I/II 9:00 AM – 4:30 PM**  
**Effective Utility Management**  
 Water and wastewater facility challenges such as aging infrastructure, growth, and adequate revenues that reflect true operational costs today and in the future. Review ten key management areas, assessing your strengths and weaknesses. *Scott Berry, OAWU – 0.6 WWW CEUs*

**HERITAGE I 9:00 AM – 12:00 PM**  
**Emerging Contaminants PFOS Workshop**  
 Class will provide an overview of sources and treatment options as well as current trends in regulations. *Keith Bedell – 0.3 WWW CEUs ESAC #TBA*

**HERITAGE II 9:00 AM – 4:45 PM**  
**Cross Connection Specialist Update**  
 Obtain your Cross Connection Specialist updates and any updates on the cross connection program. *Garrett Yates, BMI – 0.6 W CEUs ESAC TBA*

## Tuesday, March 2, 2021 Conference Schedule

Registration Desk Open 8 am–5 pm

0.575 Total CEUs

10–10:30 am	GREAT HALL	<b>Opening Session</b> Jason Green, OAWU Executive Director <b>Communications and Emergency Response</b> Staying positive and carrying out plans, and communications, during emergency responses and working through COVID for water and wastewater facilities. <i>Jason Green, OAWU Executive Director</i>			WWW
10:30–11 am	GREAT HALL	<b>National Rural Water Association Update</b> The state of water and wastewater at the national level. <i>David Baird, NRWA Board President; Russ Cooper, City of Monmouth</i>			WWW
11 am–12 pm	GREAT HALL	<b>Legislative Update</b> – Mark Landauer, OAWU/SDAO Lobbyist The latest issues of State Legislature activities concerning water and wastewater utilities.			WWW
12 pm–1 pm	HOMESTEAD	<b>Lunch Break</b>			
1–2:45 pm	GREAT HALL	LANDMARK I/II	HERITAGE I	HERITAGE II	
	<b>Active Shooter</b> OSHA requires all employers to have Emergency Action Plans including a written plan and training for an Active Shooter event. Construct a plan for your water or wastewater system. What to expect when police arrive, conduct a head count and train employees how to respond to an Active Shooter using the "Run, Hide, Fight" protocol. <i>Ray Johnson, City of The Dalles</i>	<b>Basic Pump Theory and Application</b> Outline the basic theory and design of centrifugal pumps, including submersible, vertical turbine, and centrifugal. Explain most common problems of suction and discharge sides, Troubleshooting of pumps and motors. <i>Ed Butts PE, CPI, 4B Engineering</i>	<b>Hydraulic Control Valve Training and Troubleshooting</b> Control valves can help provide data about a water system and diminish non-revenue water. The hydraulic fundamentals of these valves, basics of a pilot system, and diverse valve/pilot set up solutions. Common valve configurations, rolling diaphragm for low flow stability, integral back-up valves, and cavitation within valves. <i>Derek Zock, Correct Equipment, Mike Uthe, Mueller</i>	<b>GPR Techniques</b> The value of Ground penetrating radar (GPR): GPR science, utility line locating, sink hole and lava tube id., data capture map plotting, water leak origin tracing, and compression testing. How the OARs that govern 811 can be used in damage investigations and liability planning. <i>Anthony Timineri, City of Bend</i>	WWW/OS WWW W WWW
2:45–3 pm	GREAT HALL LOBBY	<b>Break</b>			
3–5 pm	GREAT HALL	LANDMARK I/II	HERITAGE I	HERITAGE II	
	<b>System O&amp;M</b> Successfully operate and maintain a water and/or wastewater system. The critical parts inventory, budget, training, staff succession, outlining and delegating tasks, monthly reports and tracking, staff and council/ board communication and public relations. <i>OAWU Board (Mike Edwards, Matt Johnson, Tim Lyda, Mark Beam, Craig Smith)</i>	<b>Air Mitigation in Liquid Conveyance Systems</b> Basic principles of fluid dynamics and strategies for mitigating air/ gas in pipelines. How air becomes entrained in water, how air moves through water/wastewater systems. Valve maintenance best practices and prevention of catastrophic failure events. <i>Geoff Robinson, Frank J. Martin Co.</i>	<b>Communicating with Engineers</b> Effective ways to communicate with engineers on your water and wastewater projects. Come learn methods to be clear and concise so that the engineer can understand what we want at our water and wastewater systems. <i>Mike Grimm, West Slope Water District</i>	<b>Pretreatment and Working with the Beverage Industry</b> Working with the beverage industry and other high strength wastewater dischargers. We will discuss how to set up a pretreatment plan to protect our wastewater plant and successfully implement that plan to make it fair and equitable to all the system customers. <i>Christina Davenport, City of Bend</i>	WWW WWW WWW WWW
5–5:30 pm	HERITAGE I	<b>Annual OAWU Game Tournament Meeting</b>			
5:30–6 pm	LANDMARK I/II	<b>Annual Membership Business Meeting</b>			

## OAWU Fundraiser Raffles

Raffle sales for a Glock 9 mm pistol will go toward the Jeff Swanson Memorial Scholarship Fund. The raffle of a Samsung 55" LED 2160p Smart 4k UHD television with HDR raises funds for OAWU activities. A rifle (Model 70 Featherweight .308 Cal. with Scope) will also be among the raffle prizes. Tickets will be available for sale Tuesday after morning opening sessions through Thursday evening. Drawings to be held Thursday during Hospitality Night in Homestead Hall.





# Wednesday, March 3, 2021 Conference Schedule Exhibition Hours 11:30 am to 5 pm 0.725 Total CEUs

7-8 am HOMESTEAD Breakfast				
8-9 am	<p>GREAT HALL</p> <p><b>The Show Must Go On</b> Public Works Operations and Maintenance do not stop even in a pandemic. There are rules on how the operations go on during major events e.g. storms, floods, earthquake. But this deals with bigger showstoppers where business continuity becomes very important to keep serving our citizens. <i>Arnab Bhowmick, AAKAVS AKTIVOV</i></p> <p style="text-align: right;">W/WW</p>	<p>LANDMARK I/II</p> <p><b>A Discussion of Field Sampling Techniques, Laboratory Protocols and Emerging Contaminants</b> Sample techniques to be representative and minimize environmental contamination. Current analytical methodologies and strengths and weaknesses. Understanding sample result. Emerging contaminants and their potential impact on your water system. <i>Lawrence Henderson, Edge Analytical, Inc.</i></p> <p style="text-align: right;">W/WW</p>	<p>HERITAGE I</p> <p><b>Hydrant Maintenance/Breakdown</b> Go over some simple maintenance tips to keep fire hydrant operating for years, and also breaking down Kennedy's K81D fire hydrant. <i>Bryan Elford, Kennedy Valve</i></p> <p style="text-align: right;">W</p>	<p>HERITAGE II</p> <p><b>Lagoon Management and Solids Handling</b> From toxic hits to solids handling, this class will cover the basics of lagoon management and help you prepare for an uncertain future. <i>Tanner Hartssock, Biolynceus LLC</i></p> <p style="text-align: right;">WW</p>
9-9:15 am GREAT HALL Break				
9:15-10:15 am	<p>GREAT HALL</p> <p><b>Reagentless Chlorine Analysis</b> How reagentless technology works for chlorine analysis and when it is most applicable for water and wastewater systems. <i>Frank Spevak, Emerson/Rosemont</i></p> <p style="text-align: right;">W/WW</p>	<p>LANDMARK I/II</p> <p><b>Asphalt Use in Utilities: Code of Practices</b> The "why we use" and the "where we use." We will discuss the most recent innovations, special materials for extended service life, and the latest in the code of practices for asphalt for the water and wastewater industry. <i>Bill Baily, EZ Street/Lakeside Industries</i></p> <p style="text-align: right;">W/WW</p>	<p>HERITAGE I</p> <p><b>Non-Revenue Water with Solid State Meters and AMR/AMI</b> As of October 1, 2018, the AWWA C715-18 Standard "Cold Water Meters – Electromagnetic and Ultrasonic Type, for Revenue Applications" became effective. Static meter technologies – electromagnetic and ultrasonic – how they work and why utility managers should consider these meters for their AMR/AMI initiatives. <i>Tim Owens, Correct Equipment</i></p> <p style="text-align: right;">W</p>	<p>HERITAGE II</p> <p><b>Operation of an Anaerobic Lagoon</b> The ins and outs of operating, managing, and maintaining an anaerobic lagoon system. What it can treat and how it works. <i>Dick Heard, Heard Farms</i></p> <p style="text-align: right;">WW</p>
10:15-10:30 am GREAT HALL Break				
10:30 am-12 pm	<p>GREAT HALL</p> <p><b>Real World Strategies for Managing Aging Infrastructure</b> Challenges faced by a small 50-year-old property located on the Oregon Coast. Deferred maintenance, decades of deterioration, and a lack of documentation or maintenance plans. The value of professional partnerships, and the steps we implement for success, including GIS mapping, CMMS asset management program, budgeting, and scheduling. <i>Leo Newberg, Inn at Otter Crest</i></p> <p style="text-align: right;">W/WW</p>	<p>LANDMARK I/II</p> <p><b>Sodium Hypochlorite Basics</b> An overview of the different types of sodium hypochlorite and how they differ. Properties and decomposition are defined so plant personnel what might work best for them and understand how to handle, manage, store, and deliver this chemical within parameters specific to their plants. Also, design considerations for remodeling a chemical system. <i>Gabriel Talese, HASA, Inc.</i></p> <p style="text-align: right;">W/WW</p>	<p>HERITAGE I</p> <p><b>Flexible Drop Pipe – Saving Money Pumping Water or Wastewater</b> Flexible Drop pipes are designed to replace the steel/rigid pipe in submersible pump water wells. A long-term solution for water utilities and wastewater transfer pumps. Totally non-corrosive, easier, safer, and quicker to install and retrieve pumps and are also NSF 61 certified for use with potable water. <i>Andy Andiyastika, Hose Solutions, Inc.</i></p> <p style="text-align: right;">W/WW</p>	<p>HERITAGE II</p> <p><b>Wastewater Modeling Process and Benefits</b> The creation of a wastewater model, including flow monitoring requirements, and the benefits of a working model regarding inflow &amp; infiltration rehab, planning and development studies and future flow predictions for design storms and urban growth boundary expansions. <i>Samuel Novac, Novac Industries LLC</i></p> <p style="text-align: right;">WW</p>
12-1 pm HOMESTEAD Lunch Break • Exhibits Open • Game Tournaments				
1-3 pm	<p>GREAT HALL</p> <p><b>Job Site Safety and OSHA Regulations</b> Job site safety including both excavation safety and confined space entry. There will also be a brief overview of OSHA regulations as well as a more in depth look at working with OR-OSHA consultation to help keep your job site safe. <i>Larry Fipps, OSHA</i></p> <p style="text-align: right;">W/WW</p>	<p>LANDMARK I/II</p> <p><b>Asset Management, Capital Planning, Project Management</b> How ailing and failing infrastructure can be identified and prioritized for repair, rehab or replacement, how capital budgets and plans can be developed, how maintenance crew becomes integral part of the capital planning, how activities and tasks can be forecasted and budgeted, and how projects can be managed within budget and timeline effectively. <i>Arnab Bhowmick, AAKAVS AKTIVOV</i></p> <p style="text-align: right;">W/WW</p>	<p>HERITAGE I</p> <p><b>Getting Confident with Your Control Valves</b> Hydraulic control valves can cause uncertainty with water operators. Basic understanding of hydraulic valves, approaching the valves safely for shut down, troubleshooting, and start up. <i>Steve Causseaux, Cimco-GC System</i></p> <p style="text-align: right;">W</p>	<p>HERITAGE II</p> <p><b>Chemical Free Odor Control Along Conveyance Systems</b> Case studies for a de-centralized system and incorporating technologies such as aeration, ozone, and mixing.</p> <p><b>High Efficiency Lagoon Aeration and Mixing</b> New technology to combat aeration systems that offer limited oxygen transfer, minimal mixing capabilities, and high levels of sludge. <i>Lewis Titus, Titus Industrial Group, Inc.</i></p> <p style="text-align: right;">WW</p>
3-3:15 pm HOMESTEAD Break • Exhibits • Game Tournaments				
3:15-5 pm	<p>GREAT HALL</p> <p><b>Renovating and Maintaining Steel and Concrete Storage Tanks</b> Benefits of a full-service preventive tank maintenance program: single source responsibility, balanced funding, evaluation and planning, annual inspection and maintenance, emergency repair service, regulatory &amp; GASB 34 compliance for asset management programs under the modified approach to infrastructure asset reporting. <i>Jeff Austin, SUEZ Advanced Solutions</i></p> <p style="text-align: right;">W/WW</p>	<p>LANDMARK I/II</p> <p><b>The Fundamentals of Electrochemistry</b> The fundamentals for how electrodes function for pH measurements. Common measurement problems, calibration and measurement hints, and troubleshooting. <i>Mark McElroy, Thermo Fisher Scientific</i></p> <p style="text-align: right;">W/WW</p>	<p>HERITAGE I</p> <p><b>The Role of Smart Tanks in Distribution Water Quality Management</b> Due to disinfection by products (DBPs) and violations of the Revised Total Coliform Rule determining a dosing strategy for a chloramine system is complex due to the dynamic nature of the breakpoint curve. Case studies on "Smart Tank" design and operations to show how they provide utilities with the ability to utilize water storage tanks as water quality intervention points. <i>Ethan Brooke, UGSI Solutions, Inc.</i></p> <p style="text-align: right;">W</p>	<p>HERITAGE II</p> <p><b>Revolutionizing Sludge Dewatering</b> How sludge is dewatered for drinking water treatment backwash beds and wastewater facilities currently and with what kind of equipment. Each kind of equipment has their positives and negatives, but what are the most important features you want as a plant? Maintenance, sludge consistency, or simplicity? <i>Rich Owens, Owens Pump &amp; Equipment</i></p> <p style="text-align: right;">W/WW</p>
5:30-6 pm GREAT HALL LOBBY		<b>No-Host Meet &amp; Greet</b>		
6-9 pm GREAT HALL		<b>Annual Banquet &amp; Awards Program</b>		

# Thursday, March 4, 2021 Conference Schedule

Exhibition Hours 7 am to 8 pm

0.725 Total CEUs

7-8 am		HOMESTEAD Breakfast • Exhibits • Game Tournaments				
8-9 am	GREAT HALL <b>Basic Math for Water/Wastewater Operators</b> Basic problem-solving to control water and wastewater systems and those math problems typically encountered in the Level I & II water and wastewater certification exams. <i>Tim Anderson, Wastewater Solutions International</i> w/ww	LANDMARK I/II <b>Intro to Cellular Telemetry</b> Introduction to cellular telemetry and online process instrumentation for water and wastewater. <i>Tim Owens, Correct Equipment</i>	HERITAGE I <b>Preparation for AMI</b> AMI offers you asset management features that you simply have not had before. It's important to understand what you are receiving and being prepared for it. <i>Pat Hart, Ferguson Waterworks</i>	HERITAGE II <b>Industrial Pretreatment</b> Looking at industrial Pretreatment programs and how to make yours run smoothly. <i>Genet Belete, Oregon DEQ</i>	w/ww	
	9-9:15 am HOMESTEAD Break • Exhibits • Game Tournaments					
	9:15-10:15 am	GREAT HALL <b>Basic Math for Water/Wastewater Operators</b> <i>continued</i>	LANDMARK I/II <b>A High-Performance HMI</b> Better graphics for operation's effectiveness Human Machine Interface (HMI): HMIs past and present, common but poor HMI practices, what to gain with HMI improvement, high performance HMI principles and examples. <i>Rick Patton, Advance Control Systems</i> w/ww	HERITAGE I <b>Certification Update</b> Reviewing certification rules and requirements for water distribution and treatment certifications. <i>Tony Fields, OHA</i>	HERITAGE II <b>Wastewater Certification Update</b> The application and certification process, tips to avoid mistakes, where to find the information you need on DEQ's website, and an opportunity for program feedback. <i>Keith Bedell and Jeff Crowther, OAWU</i>	w/ww
	10:15-10:45 am HOMESTEAD Break • Exhibits • Game Tournaments					
10:45-12 pm	GREAT HALL <b>Basic Math for Water/Wastewater Operators</b> <i>continued</i>	LANDMARK I/II <b>The New Tech Normal</b> The whole world is moving online more and more, and now accelerated by the pandemic. What are the best tools to do your jobs in local govt? What kind of technology to investing in? <i>Arnab Bhowmick, AAKAVS AKTIVOV</i> w/ww	HERITAGE I <b>Water System Surveys</b> How to prepare for your water system survey. What to expect during a system survey. <i>Kari Salis, OHA-DWP</i>	HERITAGE II <b>DEQ Vertical Inspection, How, Who and Why?</b> How to prepare for your system inspection and virtual inspection. <i>Vanessa Rose, Anna Morgan Hayes, Oregon DEQ</i>	w/ww	
12-1:30 pm		HOMESTEAD GREAT HALL LOBBY <b>Lunch Break • Exhibits • Game Tournaments</b> <i>Learn the latest applications, equipment, tools and techniques for the water and wastewater industry. Lunch served in Homestead Hall.</i> w/ww				
1:30-2:45 pm	GREAT HALL <b>Basic Math for Water/Wastewater Operators</b> <i>continued</i>	LANDMARK I/II <b>Pipe Rehabilitation Application</b> Acoustic Condition Assessment and Structural Epoxy Rehabilitation. Unique approaches to cleaning, assessing, and rehabilitation of pipes in water and wastewater systems. Alternative methods of restoration of aging piping systems using state of the art robotic spray application with 100% solids epoxy coating systems. <i>Jeff Austin, SUEZ Advanced Solutions</i> w/ww	HERITAGE I <b>OHA Update</b> Come hear about some of the areas that OHA Drinking Water Services will be focusing on this coming year. <i>Tony Fields, OHA</i>	HERITAGE II <b>Succession Planning and Financial Viability</b> Succession planning - how to make healthy decisions for the workforce and the financial viability of the districts and cities and how that plays a role in maintaining a healthy industry. <i>Randy Jones, DEQ, Tim Tice, OAWU</i>	w/ww	
	2:45-3:15 pm HOMESTEAD Break • Exhibits • Game Tournaments					
3:15-5 pm	GREAT HALL <b>Basic Math for Water/Wastewater Operators</b> <i>continued</i>	LANDMARK I/II <b>Water and Wastewater Master Plans</b> We will cover the drivers for water and wastewater master planning, and what data the operators should be collecting. What the master planning process look like and what are the results of the master planning. <i>Peter Olsen, Emily Flock, Keller Associates, Inc.</i> w/ww	HERITAGE I <b>Water Booster Pumps and Improvements</b> Options and features of water booster pumps used in municipal distribution. What types do you need to keep your system maintenance free, and simple to run. <i>Rich Owens, Owens Pump &amp; Equipment</i> w	HERITAGE II <b>Combination Trucks</b> Alternatives to traditional combination jet-vac trucks for excavation and maintaining a system. Jet trucks, jet trailers, vacuum trailers, rodders, bucket machines, and easement machines. <i>Shawn Patrick, Owens Equipment</i> w/ww	w/ww	
	5:30-8 pm HOMESTEAD <b>Raffle Drawings, Prize Drawings &amp; Game Tournament Finals</b>					
8:30 pm to closing	TWISTED RIVER TAVERN	<b>Live Music at the Twisted River Tavern</b> <i>This is a great time to network with peers, vendors, and friends!</i>				

# Friday, March 5, 2021 Conference Schedule

0.375 Total CEUs

7-8 am		GREAT HALL LOBBY		Breakfast	
8-9 am	GREAT HALL <b>The Santiam Canyon Recovery from the Beachie Creek and Lions Head Fires and Effect on the North Santiam Sewer Project</b> The effect on the water system in the North Santiam Canyon, the recovery, and the effect that the fire has on the progress of the North Santiam sewer district progress. Where are we now? <i>Danielle Gonzalez, Marion County Economic Development</i> w/ww	LANDMARK I/II <b>Speech Communication and The Art of Dialogue with Water and Wastewater Customers</b> Common pitfalls when communicating with your customers. Learn basic skills to better enhance your conversation and dialogue with both internal and external customers by better understanding how to deal with the customers' perspective. <i>Mike Edwards, City of Bend</i> w/ww	HERITAGE I <b>Municipal Extensions</b> Using Incremental Development to Limit "Fish Persistence" Reductions on "Green Light" Water. <i>Laura Schroeder, Schroeder Law Offices</i>	HERITAGE II <b>Intelligent Pumping Solutions Case Studies</b> Connecting a non-clog pump to a VFD with a generic operating program can bring mixed results. This session we will explore using VFDs with impeller specific algorithms and their outcomes in real stations here in Oregon. <i>Simon Cartwright, Xylem</i> ww	w
	GREAT HALL <b>The Santiam Canyon Recovery from the Beachie Creek and Lions Head Fires and Effect on the North Santiam Sewer Project</b> <i>continued</i>	LANDMARK I/II <b>Speech Communication and The Art of Dialogue with Water and Wastewater Customers</b> <i>continued</i>	HERITAGE I <b>Contracting Out of Boundary Water and/or Sewer Services</b> What are the legal options when the prior governing board/council built, agreed to maintain, or provided utility services outside jurisdictional boundaries, new connections are requested or were made, and now the whole line requires replacement or upgrades? <i>Laura Schroeder, Schroeder Law Offices</i> w/ww	HERITAGE II <b>Submersible Non-Clog Pumps</b> Motor design, hydraulic design, product range and mounting. Submersible mixers: product range and design overview. Aeration turbo-compressors: project range, operating principle, turbo blower technology comparison, monitor and control, and maintenance. <i>Rick Barile, Sulzer</i> <i>Chris Briggs, Reiner Pump Systems</i> ww	ww
9-9:15 am		GREAT HALL LOBBY		Break	
9:15-10:15 am	GREAT HALL <b>The Santiam Canyon Recovery from the Beachie Creek and Lions Head Fires and Effect on the North Santiam Sewer Project</b> <i>continued</i>	LANDMARK I/II <b>Speech Communication and The Art of Dialogue with Water and Wastewater Customers</b> <i>continued</i>	HERITAGE I <b>Contracting Out of Boundary Water and/or Sewer Services</b> What are the legal options when the prior governing board/council built, agreed to maintain, or provided utility services outside jurisdictional boundaries, new connections are requested or were made, and now the whole line requires replacement or upgrades? <i>Laura Schroeder, Schroeder Law Offices</i> w/ww	HERITAGE II <b>Submersible Non-Clog Pumps</b> Motor design, hydraulic design, product range and mounting. Submersible mixers: product range and design overview. Aeration turbo-compressors: project range, operating principle, turbo blower technology comparison, monitor and control, and maintenance. <i>Rick Barile, Sulzer</i> <i>Chris Briggs, Reiner Pump Systems</i> ww	ww
	GREAT HALL <b>Chemical Feeds Pumps</b> Water and Wastewater chemical feed pump application, operation, maintenance, and installation. <i>Phil Pelletier, Furrow Pump</i>	LANDMARK I/II <b>Project Inspections</b> How to prepare for and properly conduct construction inspections for the water and wastewater industry. This will incorporate the importance of implementing and using construction and materials specifications and standards. <i>Mike Edwards, City of Bend</i> w/ww	HERITAGE I <b>Rate/Ownership Changes: The Do's &amp; Don't of the Oregon PUC</b> What changes must be reported to the PUC, when and how to report and/or navigate any approval processes for such changes. Also, what to include in a rate increase petition and what challenges to expect from the PUC and/or third parties in obtaining approval. <i>Wyatt Rolfe, Rolfe Law Offices</i> w/ww	HERITAGE II <b>Hydro-Excavation</b> Understanding efficiency variables in Hydro-Excavation. Learn about flow vs. pressure, vacuum vs. CFM, tool selection & equipment configurations. <i>Eric Lundy, Owens Equipment</i>	w/ww
10:15-10:30 am		GREAT HALL LOBBY		Break	
10:30 am-12 pm	GREAT HALL <b>Chemical Feeds Pumps</b> Water and Wastewater chemical feed pump application, operation, maintenance, and installation. <i>Phil Pelletier, Furrow Pump</i>	LANDMARK I/II <b>Project Inspections</b> How to prepare for and properly conduct construction inspections for the water and wastewater industry. This will incorporate the importance of implementing and using construction and materials specifications and standards. <i>Mike Edwards, City of Bend</i> w/ww	HERITAGE I <b>Rate/Ownership Changes: The Do's &amp; Don't of the Oregon PUC</b> What changes must be reported to the PUC, when and how to report and/or navigate any approval processes for such changes. Also, what to include in a rate increase petition and what challenges to expect from the PUC and/or third parties in obtaining approval. <i>Wyatt Rolfe, Rolfe Law Offices</i> w/ww	HERITAGE II <b>Hydro-Excavation</b> Understanding efficiency variables in Hydro-Excavation. Learn about flow vs. pressure, vacuum vs. CFM, tool selection & equipment configurations. <i>Eric Lundy, Owens Equipment</i>	w/ww
	GREAT HALL <b>Conference Conclusion Communications and Emergency Response</b> <i>Jason Green, OAWU Executive Director</i> <i>Continued</i> <i>Jason Green, OAWU Executive Director</i>				

## REGISTRATION POLICIES

**Early Bird Registration:** Receive a \$30 discount for each full conference registration postmarked by February 1, 2021. Early Bird registrations may be billed or contain a purchase order number.

**Cancellation Policy:** If you register for the Annual Conference and fail to attend without providing OAWU with a 10-day prior notice (no later than February 19, 2021), no refund will be issued and/or you will be billed for a full registration.

**Confirmation:** For a confirmation of registration, please contact the OAWU office at (503) 837-1212 or email [office@oawu.net](mailto:office@oawu.net).



# OAWU's 43rd Annual Management & Technical Conference • March 1–5, 2021

Full Name \_\_\_\_\_

Name preferred for name badge \_\_\_\_\_

Water Op. Cert. # \_\_\_\_\_ / \_\_\_\_\_ Wastewater Op. Cert. # \_\_\_\_\_ / \_\_\_\_\_  Not Certified

Check box if you will be the Association Member Voting Delegate for the Annual Business Meeting, Tuesday, 5:30 pm.

System / Company \_\_\_\_\_

System Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

System Phone \_\_\_\_\_ Contact Person Phone \_\_\_\_\_ System Email \_\_\_\_\_

## Pre-Conference (Monday)

Course (check box for course attending)	System ID #41-_____	Fee	Subtotal
<input type="checkbox"/> Small Water System Training (0.6 Water CEUs / 0.4 WW CEUs)		FREE	FREE
<input type="checkbox"/> Cross Connection Specialist Update (0.6 Water CEUs)		\$120	
<input type="checkbox"/> Effective Utility Management (0.6 Water / Wastewater CEUs)		FREE	FREE
<input type="checkbox"/> Emerging Contaminants PFOS Workshop (0.3 Water / Wastewater CEUs)		FREE	FREE

## Full Conference (Tuesday–Friday)

Conference Registration	Early Bird (postmarked by Feb. 1)	Standard (postmarked after Feb. 1)	Subtotal
<input type="checkbox"/> OAWU Member	\$325	\$355	
<input type="checkbox"/> Non-Member (non-members receive a one-year individual membership with conference registration)	\$425	\$455	

Additional Meals for spouses or guests								Subtotal
	Evening Banquet	Lunches			Breakfast			
	Wednesday	Tuesday	Wednesday	Thursday	Wednesday	Thursday	Friday	
Enter quantity:	_____ × \$35	_____ × \$25	_____ × \$25	_____ × \$25	_____ × \$15	_____ × \$15	_____ × \$15	

## Virtual Conference Options

Virtual Conference Registration (for remote attendees) <i>Up to 20 hours of a Water/Wastewater track will be provided virtually for those needing CEUs.</i>	Early Bird (postmarked by Feb. 1)	Standard (postmarked after Feb. 1)	Subtotal
<input type="checkbox"/> <b>VIRTUAL Pre-Conference:</b> Emerging Contaminants PFOS Workshop (0.3 W / WW CEUs)	FREE	FREE	FREE
<input type="checkbox"/> <b>VIRTUAL Conference</b> See Great Hall events in Tue.–Thu. schedule (1.9 W / WW CEUs)	Member	\$325	\$355
	Non-Member	\$425	\$455

**TOTAL CONFERENCE FEES**

Payment Enclosed       Purchase Order: PO # \_\_\_\_\_       Please Invoice       Credit Card (see below)

*If paying by credit card, please use PayPal online at [www.oawu.net](http://www.oawu.net) or call the OAWU office for processing and receipt.*

Email receipt to: \_\_\_\_\_       Fax receipt to: (fax number) \_\_\_\_\_

**SEND REGISTRATION FORM AND FEES TO:**

Fax 503-837-1213 or mail: OAWU, 935 N. Main Street, Independence, OR, 97351 or email to: [office@oawu.net](mailto:office@oawu.net)

Oregon Association of Water Utilities  
935 N. Main St.  
Independence, OR 97351  
503-837-1212 Fax 503-837-1213  
Address Service Requested



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**43rd Annual Management &  
Technical Conference in Sunriver  
March 1–5, 2021**

**Attention Water and  
Wastewater Departments**

*When finished reading, please route to managers,  
operators, city recorder and/or board members.*

**Whose water will take home the title of “Oregon’s Best Tasting Water” at  
OAWU’s 26th Annual Best Drinking Water Contest and represent our state  
at the National Best Water Contest in Washington, D.C.?**



**Contest Rules**

Entrants must be an OAWU member and in State Compliance.

Bring a clear container (mason jars work well) with 1–2 quarts of your system’s drinking water to the conference in Sunriver.

**ENTRIES MUST BE SUBMITTED TO THE OAWU REGISTRATION DESK  
LOCATED IN THE GREAT HALL BY 3PM ON TUESDAY, MARCH 2, 2021.**

The container must be clean. You wouldn’t want to contaminate the smell or taste of your entry.

A panel of non-partisan judges will determine the winning Ground and Surface water entries based on clarity, smell and taste.

The overall “Best Drinking Water” will go to the national drinking water contest in Washington, D.C.

The winners will receive a plaque of excellence to exhibit in their community.

**NOMINATIONS**

*Looking for the  
annual awards  
nomination forms?*

*Visit our website at  
[www.oawu.net](http://www.oawu.net) for*

*these and much more!*

*OAWU’s mission is to provide service, support and solutions for Oregon  
water & wastewater utilities to meet the challenges of today & tomorrow.*