

OREGON ASSOCIATION OF WATER UTILITIES

45th Annual Management & Technical Conference

March 6–10, 2023 • Sunriver Resort



REGISTRATION INFORMATION & SCHEDULE

Conference Events & Information

Monday, March 6, 2023, 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 7–10, 2023 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 your room reservations with Sunriver Resort by calling 800-547-3922. Call on or before February 12, 2023 and identify yourself with the OAWU conference to receive lodging discounts (plus tax & resort fees).

Lodge Village Guestrooms: Single \$139

Annual Banquet and Awards Program

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

The 2022 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 2022 Awards

Recognize the outstanding employees at your utility for professional excellence and service in 2022. Please submit your nomination(s) for these awards no later than February 1, 2023. Nomination forms are available online at www.oawu.net or through the OAWU office.

Annual Best Tasting Water in Oregon

Join OAWU in their 28th 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, see the last page of this flier or contact the OAWU office at (503) 837-1212.



Game Tournaments

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

MURDER MYSTERY

Interactive audience participation
murder mystery dinner theater!

Join our experienced improv cast for a night of
fine dining and a whole lot of laughs.

Cowboy Hospitality Night Social



Join OAWU Thursday for Exhibitor Hospitality Night!

Cowboy costume contest—
best-dressed cowboy and cowgirl

Thursday in Homestead Hall, 5:30–8 pm. There will be a cowboy theme, no-host bar, 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

Monday, March 6, 2023 Pre-Conference Schedule

0.6 Total CEUs

GREAT HALL 8:00 AM – 12:15 PM Water and Wastewater Field Operations and Safety A range of job site safety topics including review of Competent Person criteria. <i>Scott Berry, OAWU</i> ESAC #TBA 0.4 W/WW	LANDMARK I/II 9:00 AM – 4:00 PM Small Water System Training Course The basics of water system operations. SDWA Amendments, the State Revolving Loan Fund, and security issues. Review of technical, managerial and financial needs. <i>Tim Tice, OAWU</i> ESAC #4328 0.6 W	HERITAGE I 9:00 AM – 4:45 PM Cross Connection Specialist Update Obtain your Cross Connection Specialist renewal. <i>Garrett Yates, BMI</i> ESAC #TBA 0.6 W	HERITAGE II 8:00 AM – 1:15 PM Flagger Certification – ODOT Course Attendees completing this course and exam become an ODOT certified flagger. <i>Bill Buterbaugh, ODOT</i> ESAC #TBA 0.5 W/WW
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Tuesday, March 7, 2023 Conference Schedule

Registration Desk Open 8 am–5 pm

0.575 Total CEUs

10–10:30 am GREAT HALL	Opening Session: Water and Wastewater Utility Management and Operations – Passing the Torch Mentoring and training with purpose towards excellence in service, leadership and utility operations! <i>Jason Green, OAWU Executive Director</i> W/WW		
10:30–11 am GREAT HALL	National Rural Water Association Update The State of Water & Wastewater at the national level. <i>John O'Connell, NRWA Board President and Russ Cooper, City of Monmouth</i> W/WW		
11 am–12 pm GREAT HALL	Legislative Update The latest issues of the State Legislature activities concerning water and wastewater utilities. <i>Mark Landauer, OAWU/SDAO Lobbyist</i> W/WW		
12 pm–1 pm HOMESTEAD	Lunch Break		
1–2:45 pm GREAT HALL The Role We Play for Emergencies Are you ready for an emergency? Fire, earthquake, snow, flooding, they all require one same thing, You! Sharing tools used to obtain a volunteer work force, grants, equipment, and further education. <i>Dan Weitzle, City of Manzanita</i> W/WW	LANDMARK I/II Cyber Security Threats & Best Practices General cyber threats and more specifically, on OT cybersecurity best practices and current threats. CISA provides help to organizations evaluate and improve their cyber security posture. <i>Theresa Masse, Leslie Kainoa, Cybersecurity and Infrastructure Security Agency</i> W/WW	HERITAGE I Pipe Condition Assessment Learn how to complete your pipe condition assessment for pressurized water and wastewater pipelines. <i>Mike Uthe, Muller and Tim Brown</i> W/WW	HERITAGE II Upgrading wastewater Lagoons for cold-weather ammonia removal Complete cold-weather ammonia removal, improved energy efficiency, and increased capacity in lagoons during cold weather. <i>Brady O'Leary, Triplepoint Environmental</i> WW
2:45–3 pm GREAT HALL LOBBY	Break		
3–5 pm GREAT HALL System O&M Paperwork, 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 and Matt Johnson)</i> W/WW	LANDMARK I/II On-Site Sodium Hypochlorite Generation The science and implementation behind on-site sodium hypochlorite generation (OSHG) as a source of chlorine disinfection capacity for water and wastewater plants as well as distributed well systems. <i>Ethan Brooke, UGSI Solutions, Inc.</i> W/WW	HERITAGE I Control Valve Basics Hydraulic control valves – how they're built, how they work, and where they're used. <i>Steve Causseaux and Geoff Robinson, Cimco-GC Systems</i> W	HERITAGE II Cyber Security on the OT Network How to maintain security on your water and wastewater utility network and ways to combat incoming threats. <i>Greg Chase, Portland Engineering Inc.</i> W/WW
5–5:30 pm HERITAGE I	Annual OAWU Game Tournament Meeting		
5:30–6 pm LANDMARK I/II	Annual Membership Business Meeting		

OAWU Fundraiser Raffles

Raffle sales for a Smith & Wesson 686 .357 Magnum western six-shooter will go toward the Jeff Swanson Memorial Scholarship Fund. The raffle of a 65" LG UHD Smart TV raises funds for OAWU activities. A Weatherby Vanguard Sporter .270 Winchester 24-inch bolt-action rifle will also be among the 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.



Prizes similar to images



Wednesday, March 8, 2023 Conference Schedule			Exhibition Hours 11:30 am to 5 pm		0.725 Total CEUs
7–8 am HOMESTEAD Breakfast					
8–9 am	GREAT HALL Working With Your Engineer Real life examples of working through project design and implementation with an engineer. How to communicate successfully to get the desired project outcomes. <i>Chad McMurry, Mackay Sposito</i> W/WW	LANDMARK I/II Tracer Wire to Locate Pipelines Tracer wire systems 101, installation, components, methods, and new technologies for water and wastewater. <i>Geoff Robinson, Steve Causseaux, Cimco-GC Systems</i> W/WW	HERITAGE I Past, Present & Future of Hydrants Where hydrants were, where we are at now, and the new technology coming out such as data collection with smart equipment. <i>Vaughn Barber, M&H Kennedy Valve</i> W	HERITAGE II Industrial Wastewater Pre & Treatment What are the current and possible future options for industrial wastewater treatment? Advantages and disadvantages. <i>Rich Owens, Owens Pump & Equipment</i> WW	
	9–9:15 am GREAT HALL Break				
	GREAT HALL Lab Work Sampling procedures and the required paperwork for water and wastewater labs. <i>Lisa Leming, Umpqua Research</i> W/WW	LANDMARK I/II Air Valves How combinations, air-vacs, and air-release valves work, and how they are vital to protect your water and wastewater systems. <i>Geoff Robinson, Steve Causseaux, Cimco-GC Systems</i> W/WW	HERITAGE I Water Booster Pumps & Improvements How to upgrade you booster pumps to the new century, and how to keep them updated with minimal maintenance and repair. <i>Rich Owens, Owens Pump & Equipment</i> W	HERITAGE II Utilizing Acoustic Inspection to Prioritize Sewer Cleaning Condition-based maintenance strategy and the Sewer Line Rapid Assessment Tool, or SL-RAT. <i>Gene Hallum, InfoSense</i> WW	
	10:15–10:30 am GREAT HALL Break				
10:30 am–12 pm	GREAT HALL Utility Locating The utility locating process from start to finish. We will be hands on with various types of locators and processes. <i>Nick Frappier, NW Hydrovac Corp.</i> W/WW	LANDMARK I/II If Check Valves Were Cars Explore many different check valve types, their uses, and new technologies recently introduced. <i>Geoff Robinson, Steve Causseaux, Cimco-GC Systems</i> W/WW	HERITAGE I What if your meters could hear what you cannot see New technology assists locating leaks throughout your distribution system. <i>Tim Owens, Correct Equipment</i> W	HERITAGE II Intelligent Pumping Systems How to utilize the technology to meet goals for your pumping system. <i>Simon Cartwright, Xylem-Flygt</i> WW	
12–1 pm HOMESTEAD Lunch Break • Exhibits Open • Game Tournaments					
1–3 pm	GREAT HALL Flow Monitoring and Sensors Learn about methods and technology to monitor flows in an open channel. Also see the benefits of specific chlorine and pH sensors. <i>Ken Navidi, Bainbridge Associates LLC</i> W/WW	LANDMARK I/II Tools and Tech for Business Continuity Major technologies, cloud and mobility, asset management, and many other important things to become resilient as an organization. <i>Arnab Bhowmick, AAKAVS AKTIVOV</i> W/WW	HERITAGE I Automatic Control Valves How and why they work. Flow rates, dimensions, pressure drop, and various optional materials of construction. Preventative maintenance and regularly scheduled maintenance that includes valve assessment. <i>Jim Lugo, Watts Water Technologies</i> W	HERITAGE II Membrane Systems and Headworks An in-depth look at membrane technology and the importance of headworks. <i>Hiro Kuge, Kubota Membrane USA Corp.; Doug Allie; Goble Sampson</i> WW	
	3–3:15 pm HOMESTEAD Break • Exhibits • Game Tournaments				
	GREAT HALL Workforce Development Recruiting, training and incentivizing tomorrow’s operators. <i>Niki Iverson and Chris Wilson, City of Hillsboro</i> W/WW	LANDMARK I/II Tools and Tech for Business Continuity <i>continued</i> W/WW	HERITAGE I Saving Money, Pumping Groundwater Pumping efficiencies and how much it is costing and how we can save money and prolong the life of our wells and pumping equipment. <i>Nicolas Steverlynck, Hose Solutions</i> W	HERITAGE II Sunriver Wastewater Plant Tour A Conventional Activated Sludge System upgraded to a Membrane System. <i>Hiro Kuge, Kubota Membrane USA Corp.; Doug Allie; Goble Sampson; Patrick Smith, Sunriver Utilities Manager</i> WW	
	5:30–6 pm GREAT HALL LOBBY No-Host Meet & Greet				
6–9 pm GREAT HALL Annual Banquet & Awards Program					

Thursday, March 9, 2023 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 Basic Math for Operators Join Tim as he walks you through utility operations math. Practical day-to-day math for the water and wastewater operator. Bring your calculator and questions. <i>Tim Anderson, Wastewater Solutions International</i> w/ww	LANDMARK I/II Critical Service Butterfly Valves See locations and methods for when and where to use butterfly valves effectively along with service and maintenance considerations. <i>Wade Esplin, AvTek</i> w/ww	HERITAGE I AMI Options & Distribution Management Technology to read water meters is changing rapidly. New Technologies like LoraWAN and Cellular AMI may now allow even small systems to afford AMI. <i>Bridget Garlinghouse, Consolidated Supply Co.</i> w	HERITAGE II Your DEQ Online How online will be used for operator certification and a general NPDES permit program update. <i>Tiffany Yelton-Bram, DEQ</i> ww
9–9:15 am HOMESTEAD Break • Exhibits • Game Tournaments				
9:15–10:15 am	GREAT HALL Basic Math for Operators <i>continued</i> w/ww	LANDMARK I/II Sampling, Protocols & Contaminants Sample techniques that will minimize contamination. Emerging Lab protocols, reading results and emerging contaminants. <i>Lawrence Henderson, Edge Analytical, Inc.</i> w/ww	HERITAGE I Certification Updates Certification rules and requirements for water distribution and treatment certifications. <i>Tony Fields, OHA</i> w	HERITAGE II Wastewater Operator Certification The application and certification process, tips to avoid mistakes, and information you need on DEQ's website. <i>Kimi Gryzb, DEQ</i> ww
10:15–10:45 am HOMESTEAD Break • Exhibits • Game Tournaments				
10:45–12 pm	GREAT HALL Basic Math for Operators <i>continued</i> w/ww	LANDMARK I/II What is Ozone Ozone facts properties, & effects on bacteria. Oxidation potential. How ozone is produced and dissolved in water. Ozone benefits and applications. Examples of ozone projects. <i>Jim Baker, Primozone</i> w/ww	HERITAGE I Certification Updates <i>continued</i> w/ww	HERITAGE II DEQ Panel Discussion Updates, questions, concerns, ideas and challenges. <i>Tiffany Yelton-Bram, Kimi Gryzb DEQ</i> ww
12–1:30 pm HOMESTEAD GREAT HALL LOBBY Lunch Break • Exhibits • Game Tournaments Learn the latest applications, equipment, tools and techniques for the water and wastewater industry. Lunch served in Homestead Hall. w/ww				
1:30–2:45 pm	GREAT HALL Basic Math for Operators <i>continued</i> w/ww	LANDMARK I/II Financial Roundtable Overview of funding opportunities for utilities. Q&A and your specific projects. <i>Julia McCusker & Conner Carrier, CoBank; Tony Fields, OHA; Kim Young, RD; Capi Lewis, Business Oregon; Tom Puttman, Puttman Infrastructure, Inc.</i> w/ww	HERITAGE I Water Curtailment & Shortage Planning Current events, how they may affect your water availability, and what you need to know to plan for these situations. <i>Joan Smith and Tamera Smith, OWRD</i> w	HERITAGE II Collection System Management FOG, odors, H2S, corrosion and the damaging impacts of contaminants. Emerging issues and incorporating pre-treatment and strategies for collection systems. <i>Rick Allen, Biolynceus</i> ww
2:45–3:15 pm HOMESTEAD Break • Exhibits • Game Tournaments				
3:15–5 pm	GREAT HALL Basic Math for Operators <i>continued</i> w/ww	LANDMARK I/II Chemical Feed Pumps Water & Wastewater chemical feed pump application, operation, maintenance, & installation. <i>Phil Pelletier, Furrow Pump</i> w/ww	HERITAGE I Source Water Protection & Resiliency BMPs to protect your water source considering potential contaminants and ways to be prepared for the future of your water supply. <i>Russ Kazmierczak, OHA</i> w	HERITAGE II Pretreat & FOG Pre-treatment and FOG ordinances in your utility as dictated by federal regulations. Inspect and enforce ordinances. <i>Rick Allen, Biolynceus</i> ww
5:30–8 pm HOMESTEAD Cowboy Hospitality Night: Raffle Drawings, Prize Drawings & Game Tournament Finals				
8:30 pm to closing	OWL'S NEST Live Music at the Owl's Nest This is a great time to network with peers, vendors, and friends!			

Friday, March 10, 2023 Conference Schedule				0.375 Total CEUs
7-8 am	GREAT HALL LOBBY	Breakfast		
8-9 am	GREAT HALL Project Inspections How to prepare for and properly conduct construction inspections for the water and wastewater industry. <i>Mike Edwards, City of Bend</i> w/WW	LANDMARK I/II Understanding Control Systems Integration Identifying and understanding controls and SCADA within an integrated system. <i>Jon Frank, ACS</i> w/WW	HERITAGE I Navigating Advanced Metering Technology Advantages and drawbacks of metering types. The right solutions for your current goals. <i>Adam Frank, Neptune Technology</i> w	HERITAGE II Proactive Repairs in the Collection System Class demo. A trenchless repair option to repair sewer lines. <i>Doug Troyer, Underground Tech</i> ww
9-9:15 am	GREAT HALL LOBBY	Break		
9:15-10:15 am	GREAT HALL Project Inspections <i>continued</i> w/WW	LANDMARK I/II Chemical Feed Pumps Operational functions of peristaltic and diaphragm pumps relating to system parameters such as chemical, flows, pressures, and required equipment. <i>Bill Ormsby, Blue-White</i> w/WW	HERITAGE I OWRD's Groundwater Allocations New policy guidance for groundwater rights. Likely a significant turning point for groundwater appropriation in Oregon. <i>Marika Sitz, Jordan Ramis</i> w	HERITAGE II High BOD Food and Beverage Wastewater High BOD wastewater are often highly impactful sources of load. Processes employed to treat these particular waste streams. <i>Robert Smith, Pumpteck LLC</i> ww
10:15-10:30 am	GREAT HALL LOBBY	Break		
10:30 am-12 pm	GREAT HALL Project Inspections <i>continued</i> w/WW	LANDMARK I/II Large Fuel Spills- How do they affect your Utility? How a large-scale fuel leak affected one city's systems. Steps that were taken during a recent fuel spill. What went good? What could be improved on? <i>Mark Landau, Matt Johnson, City of Monmouth</i> w/WW	HERITAGE I Review of PFAS The latest updates from the October 2021 EPA Strategic PFAS Roadmap and what was accomplished in 2022. PFAS treatment technologies and questions you need to ask. <i>Heather Jennings, Probiotic Solutions</i> w/WW	HERITAGE II Wastewater Modeling & Benefits Benefits of a working model of I & I rehab, planning and development studies and future flow predictions for design storms and urban growth boundary expansions. <i>Samuel Novac, Novac Industries LLC</i> ww
12-12:15 pm	GREAT HALL	Conference Conclusion: Water and Wastewater Utility Management and Operations – Passing the Torch <i>continued</i> <i>Jason Green, OAWU Executive Director</i> w/WW		

Registration Policies

Early Bird Registration: Receive a \$30 discount for each full conference registration postmarked by January 31, 2023. 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 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.

OAWU's 45th Annual Management & Technical Conference

March 6–10, 2023

Conference and Pre-Conference Registration

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 at 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)	Fee	Subtotal
<input type="checkbox"/> Water & Wastewater Field Operations & Safety (0.4 Water / Wastewater CEUs)	FREE	FREE
<input type="checkbox"/> Small Water System Training (0.6 Water CEUs)	System ID #41-_____	FREE
<input type="checkbox"/> Cross Connection (0.6 Water CEUs)	\$120	
<input type="checkbox"/> Flagger Certification (0.5 Water / Wastewater CEUs)	FREE	

Full Conference (Tuesday–Friday)

Conference Registration	Early Bird (postmarked by Jan. 31)	Standard (postmarked after Jan. 31)	Subtotal
<input type="checkbox"/> OAWU Member	\$345	\$375	
<input type="checkbox"/> Non-Member*	\$445	\$475	

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	

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 or call the OAWU office for processing and receipt.

☐ Email receipt to: _____ ☐ Fax receipt to: (fax number) _____

* Non-members receive a one-year individual membership with conference registration.

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

Oregon Association of Water Utilities
935 N. Main St.
Independence, OR 97351
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**45th Annual Management &
Technical Conference in Sunriver
March 6–10, 2023**

**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 28th 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 7, 2023.

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 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.*