

OAWU's Annual End of Year Operator's Conference



Best Western Hood River Inn, Hood River, Oregon • December 9–12, 2024
Earn up to 2.0 CEUs in either Water or Wastewater

**Attention Water and
Wastewater Departments**
When finished reading, please
route to manager(s), operators,
city recorder and/or board members.

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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OAWU's Annual End of Year Operator's Conference

December 9–12, 2024 • Best Western Hood River Inn
1108 E. Marina Way, Hood River, Oregon 97031

ACCOMMODATIONS: (800) 828-7873

Guest room block available until November 15, 2024. When calling to reserve, identify yourself as an attendee of the OAWU Operator's Conference. Rates are dual occupancy; additional person \$15.

Nonview Two Queen \$139 + tax per night • Nonview King \$129 + tax per night • Riverview King \$159 + tax per night

Please use one form for each person attending (photocopy additional forms as needed).

Full Name _____

Water Certification # _____ Wastewater Certification # _____ Working toward certification

System Name _____

System Address _____

City _____ State _____ Zip _____

System Phone _____ System Email _____

Pre-Conference (Monday, 0.6 CEUs)

Course (check box for course attending)	Fee	Subtotal
<input type="checkbox"/> Emerging Contaminants PFOS (8:45 am–12 pm) (0.3 Water/Wastewater CEUs)	FREE	FREE
<input type="checkbox"/> Small Water System Training Course (9 am–4 pm) (0.6 Water CEUs)	FREE	FREE
PRE-CONFERENCE TOTAL		

Full Conference (Tuesday–Thursday, 2.0 CEUs) ESAC #TBA

Conference Registration <i>Includes training sessions, coffee and donuts, and lunch each day</i>	Early Bird (postmarked by Oct. 31 st)	Standard (postmarked after Oct. 31 st)	Subtotal
OAWU Member	\$360	\$410	
Non-Member <i>(non-members receive one-year individual membership with conference registration)</i>	\$460	\$510	
TOTAL REGISTRATION FEES			

TOTAL CONFERENCE FEES

Payment Enclosed Purchase Order: PO # _____ Please Invoice

If paying by credit card, please call the OAWU office after submitting your registration form.

Email receipt to: _____ Fax receipt to: _____

Confirmation & Cancellation

No refunds will be issued and a regular registration fee will be billed for those who fail to attend and do not give the OAWU office notice seven days prior to the start of the conference.

Please keep a copy of your registration form or contact the OAWU office at 503-837-1212 for confirmation.

SEND REGISTRATION FORM AND FEES TO:

Email to: office@oawu.net | Mail: OAWU, 935 N. Main Street, Independence, OR, 97351 | Fax: 503-837-1213

MONDAY, DECEMBER 9, 2024		0.6 CEUs
8:45 AM–12:00 PM	0.3	Emerging Contaminants PFOS – Monty Norris The class will supply an overview of sources and treatment options as well as current trends in regulations. <ul style="list-style-type: none"> • 08:45 – 10:15 Sources of and types of contaminants, levels of concern. • 10:15 – 10:30 Break • 10:30 – 12:00 Treatment options that may be best suited for your utility. <p style="text-align: right;">w/ww</p>
9:00 AM–4:00 PM	0.6	Small Water System Training Course – Scott Berry and Tim Tice <ul style="list-style-type: none"> • The basics of water system operation including waterborne pathogens, water treatment, water sampling, and maintenance. In addition, a review of the Safe Drinking Water Act Amendments, the State Revolving Loan Fund, as well as water system security issues. Review of technical, managerial, and financial needs of a small system. <p style="text-align: right;">w</p>

TUESDAY, DECEMBER 10, 2024		0.675 CEUs		
7:45–8:00 AM	REGISTRATION & INTRODUCTION			
8:00–10:00 AM	0.2	How to Start and Fund Asset Management from Scratch A real time data driven approach to implement or enhance asset management programs for your utilities. <i>Arnab Bhowmick, AAKAVS AKTIVOVW</i> <p style="text-align: right;">w/ww</p>		
10:00–10:15 AM	BREAK			
10:15–12:00 PM	0.175	The Show Must Go On: Business Continuity, Succession Planning, and Emergency Response Local Govt. operations do not stop even in a pandemic or during natural calamities, emergencies, disruptions, and staff turnovers. From normal disruptive events to bigger showstoppers and helps strategize for workforce turnover. Business continuity, emergency response, and succession planning concepts and tools. <i>Arnab Bhowmick, AAKAVS AKTIVOVW</i> <p style="text-align: right;">w/ww</p>		
12:00–1:00 PM	LUNCH PROVIDED			
1:00–2:00 PM	0.1	NPSH and Cavitation in Centrifugal Pumps Centrifugal pumps, how they operate in contrast to other pumping technologies, and the characteristics of kinetic pumps that make NPSH and cavitation an issue. <i>Robert Smith, Treatment Equipment Co.</i> <p style="text-align: right;">w/ww</p>		
2:00–2:15 PM	BREAK			
2:15–3:15 PM	0.1	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> Customer Service Through AMI for Water Systems AMI and other metering data sources to protect water and wastewater utility infrastructure. Water meter applicability and the importance of data management to reduce unaccounted for water. <i>Spencer Cashwell, City of Bend</i> <p style="text-align: right;">w</p> </td> <td style="width: 50%; vertical-align: top;"> Industrial Cleaning of Digesters, Clarifiers and Lagoons Industrial cleaning procedures and managing biosolids. Projects scopes, disposal options, and miscellaneous items that impact system maintenance <i>Steve Redford, FloHawks Industrial</i> <p style="text-align: right;">ww</p> </td> </tr> </table>	Customer Service Through AMI for Water Systems AMI and other metering data sources to protect water and wastewater utility infrastructure. Water meter applicability and the importance of data management to reduce unaccounted for water. <i>Spencer Cashwell, City of Bend</i> <p style="text-align: right;">w</p>	Industrial Cleaning of Digesters, Clarifiers and Lagoons Industrial cleaning procedures and managing biosolids. Projects scopes, disposal options, and miscellaneous items that impact system maintenance <i>Steve Redford, FloHawks Industrial</i> <p style="text-align: right;">ww</p>
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WEDNESDAY, DECEMBER 11, 2024

0.675 CEUs

CEUS		WATER	WASTEWATER
08:00–9:00 AM	0.1	Disinfection Alternatives With the current regulatory environment and safety factors associated with using gases for water/wastewater treatment, this class will focus on alternatives to Chlorine gas and Sulfur Dioxide. <i>Matt Barrier, Northstar Chemical</i>	Electronic Reporting for Water Quality Permits Discharge monitoring reports will transition from NetDMR to Your DEQ Online, and those using paper will report electronically in Your DEQ Online. Review access, and special reporting circumstances. <i>Martina Frey, Oregon DEQ</i>
9:00–9:15 AM	BREAK		
9:15–10:15 PM	0.1	Fire Hydrant Basics The ins and outs of today's fire hydrants. <i>Operations and repairs.</i> <i>Vaughn Barber, Kennedy/M&H Valve</i>	Biosolids: The Ins and Outs of Your Solids Management Federal regulations, how DEQ regulates solids. Biosolids Management Plan and site authorization.. <i>Pat Heins, Oregon DEQ</i>
10:15–10:30 AM	BREAK		
10:30–11:45 AM	0.125	Cascade Groundwater Alliance, Program Overview and Update The Alliance of the City of Gresham and the Rockwood Water PUD is engaged in the design and construction of a new ground water supply. History, overview and updates on this 30MGD project. <i>Jeremy Hudson PE, Rockwood Water PUD; Brian Ginter PE, Consor Engineering; Jason Branstetter PE, City of Gresham</i>	Introduction to Water Quality Standards Variances in Oregon Federal and state variance requirements, an introduction to Oregon DEQ's process for applying for variances and considerations. <i>Aron Borok, Oregon DEQ</i>
11:45–1:00 PM	LUNCH PROVIDED		
01:00–2:00 PM	0.1	Mastering Drinking Water System Documentation Overview of the Oregon Water Rights System. Discussion of what municipalities have done to secure their water supply in the long-term. <i>Nicole H. Alfara, OHA-DWS</i>	Recycled Water and What You Can Do with It Options that are available for your treated effluent, what DEQ requires in your Recycled Water Use Plan and what changes are afoot in Oregon's water reuse. <i>Pat Heins, Oregon DEQ</i>
2:00–2:15 PM	BREAK		
2:15–3:30 PM	0.125	Water Rights 101 and Water Supply Resiliency Overview of the Oregon Water Rights System. Discussion of what municipalities have done to secure their water supply in the long-term. <i>Kerri Cope, Tamera Smith, OWRD</i>	Wastewater Operator Certification The application and certification process, tips to avoid mistakes, and information you need on DEQ's website. <i>Kimi Gryzb, Oregon DEQ</i>
3:30–3:45 PM	BREAK		
3:45–5:00 PM	0.125	Pipe Past, present, and future types of pipe and appropriate fittings used for the water and wastewater industry. <i>Jess Bergers, Ferguson Waterworks</i>	

THURSDAY, DECEMBER 12, 2024

0.65 CEUs

08:00–09:30 AM	0.15	Hydraulic Control Valve Basics: Function and Application Basic hydraulics, valve function, pilot system function, valve components, pressure reducing and relief valves, and troubleshooting of common water and wastewater valves. <i>Patrick Miller, Cimco-GC Systems</i>	
09:30–10:00 AM	BREAK		
10:00–12:00 PM	0.2	Laboratory Work and Sampling Best practices for drinking water and wastewater sampling, laboratory work, navigating compliance, and the importance of laboratory-client relationship. <i>Michelle Angland, Edge Analytical.</i>	
12:00–1:00 PM	LUNCH ON YOUR OWN		
01:00–2:30 PM	0.15	Cybersecurity for Rural Water and Wastewater Systems The current threat landscape for US public water and wastewater systems. How cyber-attack scenarios vs critical infrastructure play out. A look at what attackers see. <i>Steve Menges, Alpha Guardian Network, LLC</i>	
02:30–2:45 PM	BREAK		
02:45–4:15 PM	0.15	Cybersecurity for Rural Water and Wastewater Systems Continued	