

# OAWU SPIRIT MOUNTAIN CASINO OPERATOR'S CONFERENCE



Spirit Mountain Casino, Grand Ronde, Oregon • November 1–3, 2022  
Earn up to 2.0 CEUs in Water and 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  
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# Annual OAWU Spirit Mountain Casino Operator's Conference

Grand Ronde, Oregon • November 1–3, 2022  
27100 SW Salmon River Hwy, Grand Ronde

## ACCOMMODATIONS: (800) 760-7977

Call by Saturday, October 1, 2022 for special room block rate:  
\$119 (+ \$10 per additional guest) + tax.

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 \_\_\_\_\_

## Full Conference (Tuesday–Thursday, 2 CEUs) ESAC #4707

Conference Registration <i>Includes training sessions, coffee, and lunch each day</i>	Early Bird (postmarked by Oct. 1)	Standard (postmarked after Oct. 1)	Subtotal
OAWU Member	\$325	\$355	
Non-Member*	\$425	\$455	
TOTAL REGISTRATION FEES			

**TOTAL CONFERENCE FEES**

☐ Payment Enclosed ☐ Purchase Order: PO # \_\_\_\_\_ ☐ Please Invoice

***If paying by credit card, please call the OAWU office for processing and receipt.***

☐ 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 a seven-day prior notice.

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

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

## SEND REGISTRATION FORM AND FEES TO:

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



TIME	CEUS	KALAPUYA A/B	MOLALLA A/B
<b>TUESDAY, NOVEMBER 1, 2022</b>			<b>0.7 CEUS</b>
<b>07:30–8:00 AM</b>		<b>REGISTRATION &amp; COFFEE</b>	
8:00–10:00 AM	0.2	<b>OSHA Inspections</b> What to expect in and how to be prepared for an OR-OSHA inspection. <i>Larry Fipp, OSHA</i>	<i>No class in Molalla A/B this session</i>
<b>10:00–10:15 AM</b>		<b>BREAK</b>	
10:15–12:00 PM	0.175	<b>Large Fuel Spills: How do They Affect Your Water and Wastewater Systems?</b> Would you be ready to protect your systems from gasoline oil spills infiltrating your collection system? Seeping into your waterline trench? Discussion with operators about the steps taken at their system during a recent fuel spill. What went good? What could be improved upon? <i>Mark Landau, Matt Johnson, City of Monmouth</i>	<b>Hydraulic Control Valve Basics: Function and Troubleshooting</b> Basic hydraulics, valve function, pilot system function, valve components, pressure reducing and relief valves and troubleshooting of common valves. Set, troubleshoot, and maintain your system more effectively. <i>Steve Causseaux, CIMCO-GC Systems</i>
<b>12:00–1:00 PM</b>		<b>LUNCH PROVIDED</b>	
1:00–2:00 PM	0.1	<b>Intro to Cellular Telemetry</b> Introduction to cellular telemetry and online process instrumentation for water and wastewater. <i>Tim Owens, Correct Equipment</i>	<b>Intro to Cellular Telemetry</b> Introduction to cellular telemetry and online process instrumentation for water and wastewater. <i>Tim Owens, Correct Equipment</i>
<b>2:00–2:15 PM</b>		<b>BREAK</b>	
2:15–3:30 PM	0.125	<b>If Check Valves Were Cars: Style, Selection, and Performance</b> Check valves, like cars, come in a variety of styles and perform differently in different situations. Options to get the best car, er, check valve for your applications. <i>Steve Causseaux, Cimco-GC Systems</i>	<b>Acoustic Leak Detection &amp; Smart Meters</b> Integrated acoustic sensor housed in the meter presents an approach to increase the number of acoustic sensors in a water grid tenfold. <i>Tim Owens, Correct Equipment</i>
<b>3:30–3:45 PM</b>		<b>BREAK</b>	
3:45–4:45 PM	0.1	<b>Locating Basics</b> Damaging other utilities is extremely costly to the water and wastewater industry. This class will review the basics of how to properly locate buried utilities to avoid these costly repair bills. <i>Doug Dato, Trade Tool</i>	<b>Acoustic Inspection to Prioritize Sewer Cleaning</b> Maintenance strategies used in managing wastewater collection systems. These are Reactive (or Run-To-Failure), Rotational (or Time Based), and Condition-Based (Cleaning the Right Pipe at the Right Time). Condition-Based maintenance using the Sewer Line Rapid Assessment Tool, or SL-RAT®, to inspect gravity-fed sewers for blockage conditions and case studies. <i>Gene Hallum, InfoSense, Inc.</i>



Grand Ronde, Oregon



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TIME	CEUS	KALAPUYA A/B	MOLALLA A/B
<b>WEDNESDAY, NOVEMBER 2, 2022</b>			<b>0.725 CEUS</b>
<b>07:30–8:00 AM</b>	<b>COFFEE</b>		
8:00–10:00 AM	0.2	<b>Extending Utility/Municipal Services: Fees, Capacity, Easement &amp; Boundary Considerations</b> Ending service for out of service boundary connections, forced in/out of boundary service and shy contracts are important, extending service areas and sufficient water rights. Easement elements – prescriptive, implied or necessity? <i>Laura Schroder, Schroeder Law Offices</i>	<b>Simple Industrial Wastewater Treatment / Pre-Treatment</b> Options for industrial wastewater treatment and the pros/cons. Upcoming technologies. <b>Wastewater Screening Options</b> What kinds of equipment are available and what are the advantages and disadvantages of each. How to determine which type of screening is right for your wastewater operation. <i>Rich Owens, Owens Pump &amp; Equipment</i>
		W/WW	WW
<b>10:00–10:30 AM</b>	<b>BREAK</b>		
10:30–12:00 PM	0.15	<b>Asset Management, Rate Analysis and Setting</b> To do asset management or to set rates, you need to do both well. Keeping up infrastructure to the state of good repair, getting funds and grants, asset management, and setting appropriate rates all go hand in hand. <i>Arnab Bhowmick, AAKAVS AKTIVOV</i>	<b>Design, Operation, and Troubleshooting of Membrane Bioreactor (MBR) System</b> Membrane Bioreactor (MBR) process including how to design, operate and troubleshoot. Any wastewater treatment plant can be upgraded to MBR process and case studies. <i>Hiro Kuge, Kubota Membrane</i>
		W/WW	W/WW
<b>12:00–1:30 PM</b>	<b>LUNCH WITH EXHIBITORS PROVIDED</b>		
			0.1 W/WW CEUS
1:30–3:00 PM	0.15	<b>Hydro Excavation Safety and Training</b> Operator safety from start to finish on hydro excavation and utility locating. Valve exercising, small line jetting and piercing tools. Manufacturer challenges and how it affects the industry. <i>Tyler Walden, RDO Equipment</i>	<b>Cold-Weather Lagoon Ammonia Removal: Treat to non-detect at 1C</b> Wastewater lagoons were generally not designed for efficient or effective ammonia removal. Lagoons are facing new compliance standards. Why lagoons fail to nitrify, how to improve nitrification, and compare detection technologies. <i>Brady O'Leary, Triplepoint Environmental</i>
		W/WW	WW
<b>3:00–3:30 PM</b>	<b>BREAK</b>		
3:30–4:45 PM	0.125	<b>Real World Considerations for Pump Design, Operation and Troubleshooting</b> Pump design for consulting engineers or plant staff. Piping and supports, gauges, switches, suction lift, TDH, NPSH, cavitation and centrifugal versus positive displacement pumps. <i>Steve Truitt, Penn Valley Pump</i>	<b>Service Line Inventory</b> How to prepare for and complete the new service line inventory requirement for the LCRR. <i>Kari Salis, OHA-DWP</i>
		W/WW	W
<b>THURSDAY, NOVEMBER 3, 2022</b>			<b>0.575 CEUS</b>
<b>7:00–8:00 AM</b>	<b>COFFEE</b>		
8:00–10:00 AM	0.2	<b>Spirit Mountain Casino Water and Wastewater Plant Tour</b> Tour the membrane plants owned and operated by Spirit Mountain Casino. In-depth processes of both starting with the intake, through the treatment process, and the wastewater treatment plant. <i>Salvador Arreola, David Williams Jr., Spirit Mountain Casino</i>	<b>Is Your System Prepared for a Water Emergency?</b> Free resources, to prepare for, and respond to, water-related emergencies, contamination, and natural disasters. <i>Karen Edwars-Lindsey, EPA</i>
		W/WW	W/WW
		W/WW	W/WW
<b>10:00–10:15 AM</b>	<b>BREAK</b>		
10:15–12:00 PM	0.175	<b>Construction Grade Staking For Water and Wastewater Utilities</b> Learn the basics for construction grade staking in the water and wastewater utilities to find rate of fall or level plane. <i>Scott Berry, OAWU</i>	<b>Trident Operational Strategies &amp; Techniques</b> Chemical dosages to achieve proper headloss across the adsorption clarifier and mixed media filter when treating for turbidity or color reduction. <b>Service/Repairs/Maintenance on Trident Filters</b> How to get things done and get support as needed. Who can help? What over-the-phone and onsite support options are available? <i>Richard Ross, P.E., Dave Lucey</i>
		W/WW	W
<b>12:00–1:00 PM</b>	<b>LUNCH PROVIDED</b>		
1:00–2:00 PM	0.1	<b>Master Planning 101</b> The drivers for water and wastewater master planning, what data the operators should collect. What is the process and results of the master planning. How operators can play an essential role in the master planning process. <i>Peter Olsen, Keller Associates, Inc.</i>	<b>Groundwater Basics and Source Water Protection</b> The origin of groundwater, movement through subsurface, various aquifer materials and well construction. A Source Water Assessment, how OHA and DEQ are conducting Assessment updates, and how to utilize that information. <i>Tom Pattee, OHA - DWS</i>
		W/WW	W
<b>2:00–2:15 PM</b>	<b>BREAK</b>		
2:15–3:15 PM	0.1	<b>Changing of the Guard</b> Our most valuable asset is our system personnel. How to attract and keep new water and wastewater operators when they are in short supply. <i>Heath Cokeley, OAWU</i>	No class in Molalla A/B this session
		W/WW	