

SECOND ANNUAL SPIRIT MOUNTAIN CASINO OPERATOR'S CONFERENCE



Spirit Mountain Casino, Grand Ronde, Oregon • November 4–7, 2019
Earn up to 2.7 CEUs in either Water or Wastewater

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

**Attention Water and
Wastewater Departments**

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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2nd Annual Spirit Mountain Casino Operator's Conference

Grand Ronde, Oregon • November 4–7, 2019
27100 SW Salmon River Hwy, Grand Ronde

ACCOMMODATIONS: (800) 760-7977

Call by Friday, October 4, 2019 for special room block rate:
\$99 (+ \$10 per additional guest) + 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"/> Effective Utility Management (0.6 Water/Wastewater CEUs)	FREE	FREE
PRE-CONFERENCE TOTAL		

Full Conference (Tuesday–Thursday, 2.1 CEUs) ESAC #3984

Conference Registration <i>Includes training sessions, coffee, and lunch each day</i>	Early Bird (postmarked by Oct. 3)	Standard (postmarked after Oct. 3)	Subtotal
OAWU Member	\$305	\$335	
Non-Member (<i>non-members receive one-year individual membership with conference registration</i>)	\$405	\$435	
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 (no later than Monday, October 28, 2019).

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:

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

MONDAY, NOVEMBER 4, 2019

0.6 CEUS

09:00 AM–04:30 PM	0.6 CEUs	<p>Effective Utility Management Participate in a workshop for success at your water and wastewater facility. Look at challenges such as aging infrastructure, growth, and adequate revenues that reflect true operational costs today and in the future. At this workshop, you will be involved in ten key management areas, assessing your strengths and weaknesses with a framework conducive of a well-rounded water and wastewater utility management approach. <i>Scott Berry, OAWU</i></p>	0.6 W/WW
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TUESDAY, NOVEMBER 5, 2019

0.7 CEUS

CEUS	KALAPUYA B	KALAPUYA A	
07:30–8:00 AM	REGISTRATION & COFFEE		
08:00–10:00 AM	0.2	<p>Build and Fund an Asset Management Program With mobile GIS based Asset Management monitor work status and create service requests. Status is updated between field and office instantly. Benefits of ROI, and case studies. <i>Arnab Bhowmick, AAKAVS AKTIVOV</i></p>	<p>How to Maintain Long Term Well Performance Long term well performance includes how the well is designed, constructed, and how it is operated and maintained. Real world successes and failures. <i>Jim Bailey, Shannon & Wilson</i></p>
10:00–10:15 AM	BREAK		
10:15–12:00 PM	0.175	<p>Challenges for Water/Wastewater, Aging Infrastructure/Rates/Customers/Governing Body Raising costs for capital improvement projects and community reluctance to accrue those costs. Tips, tricks and pitfalls from an operator. <i>Fred Schatz, Crystal Spring Water District</i></p>	<p>Nutrient Reduction with a Lagoon System Many steps can be taken to enable lagoon systems to reduce nutrients. Methods used in today's industry which will enable you to remove nutrients with existing lagoon infrastructure. <i>Wade Stinson, WCS, Inc.</i></p>
12:00–01:00 PM	LUNCH PROVIDED		
01:00–02:00 PM	0.1	<p>Technologies in Local Govt.–CAD, GIS, Sensors, IoT, Drones, VR Do IT jargons make sense? Are you clear on platform, device, hardware, and software options? Negotiation points and tactics with your IT and GIS vendors for products and services. <i>Arnab Bhowmick, AAKAVS AKTIVOV</i></p>	<p>Pretreatment and Working with the Beverage Industry Working with high strength WW dischargers. Set up and implement a pretreatment plan to protect our WW plant. <i>Christina Davenport, City of Bend</i></p>
02:00–02:15 PM	BREAK		
02:15–03:30 PM	0.125	<p>Concrete and Steel Tank Maintenance: Reactive vs Proactive Proactive vs. reactive maintenance for Steel and Concrete Tank Coatings. Risk analysis, material selection, preparation and application issues, common failures, and cost effectiveness. <i>Jeff Austin, SUEZ</i></p>	<p>Pretreatment and Working with the Beverage Industry CONTINUED</p>
03:30–03:45 PM	BREAK		
03:45–04:45 PM	0.1	<p>Concrete and Steel Tank Maintenance: Reactive vs Proactive CONTINUED</p>	<p>Operation of an Anaerobic Lagoon 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>



WEDNESDAY, NOVEMBER 6, 2019

0.7 CEUS

CEUS	KALAPUYA B	KALAPUYA A
07:00–08:00 AM	COFFEE	
08:00–10:00 AM	0.2 Hiring and Retaining Qualified Staff How hiring the right staff, providing the tools and support for them to do the job, and creating a work environment that is enjoyable, will promote staff retention and productivity. <i>Jason Green, OAWU</i>	Water T/D Level 3,4 and Filtration Endorsement Different water filtration plants will be discussed in depth as well as proper operations of those filters focusing on the math required to run Conventional and Direct Water Filtration plants. <i>Darrel Lockard, Retired</i>
10:00–10:15 AM	BREAK	
10:15–12:00 PM	0.175 Job Site Safety and OSHA Regulations Job site safety including both excavation safety and confined space entry. Overview of OSHA regulations and working with OR-OSHA consultation to help keep your job site safe. <i>Larry Fipps, OSHA</i>	Water T/D Level 3,4 and Filtration Endorsement CONTINUED
12:00–01:00 PM	LUNCH PROVIDED	
01:00–02:00 PM	0.1 GIS and Mapping Your System How operators use GIS daily: locates, tracking maintenance, and logging notes. How to map, GPS equipment, recommended procedures, things to look out for, and the pros and cons of doing it yourself vs hiring someone. <i>Ben Hill, Diamond Maps</i>	Setting up a FOG Program Ways to setup a program to address FOG issues impacting your sewer collection system. Case study on how Portland developed and implemented its FOG program. <i>Ali Dirks, City of Portland, Bureau of Environment Services</i>
02:00–02:15 PM	BREAK	
02:15–03:30 PM	0.125 Access Rights for Water and Wastewater Utilities Learn best practices for obtaining and confirming access rights and the scope of such access rights for repairs, removal of access barriers, and more. <i>Sarah Liljefelt, Schroeder Law Office</i>	Wastewater Modeling Process and Benefits Creating a wastewater model, including flow monitoring requirements, and the benefits of a working model for I and 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>
03:30–03:45 PM	BREAK	
03:45–04:45 PM	0.1 Sodium Hypochlorite Basics The three grades of sodium hypochlorite in the PNW. The properties of each grade, performance, how those can affect daily use and how best to specify the grade for your plant. <i>Gabe Talesey, Hasa, Inc.</i>	Non-Revenue Water with Solid State Meters and AMR/AMI Static meter technologies electromagnetic and ultrasonic. How they work and why utility manager should consider these meters. <i>Tim Owens, Correct Equipment</i>

THURSDAY, NOVEMBER 7, 2019

0.7 CEUS

CEUS	KALAPUYA B	KALAPUYA A
07:00–08:00 AM	COFFEE	
08:00–10:00 AM	0.2 Project Inspector How to prepare for and properly conduct construction inspections for the W and WW industry. The importance of implementing and using construction and materials specifications and standards. <i>Mike Edwards, City of Bend</i>	Integrated Pump Controls What station management and integration should involve. Best practices and the latest pumps and entering the market. <i>Simon Cartwright, Xylem</i>
10:00–10:15 AM	BREAK	
10:15–12:00 PM	0.175 Leak Detection for Water & Wastewater Utilities Leak detection in W and WW systems to better utilize correlation techniques for distribution and collection systems. Learn the methods to identify and find leaks. A variety of equipment will be demonstrated and used. <i>Scott Berry, OAWU</i>	DEQ Wastewater Operator Certification Basics The application and certification process, tips to avoid mistakes, an overview of where to find the information you need on DEQ's website, and an opportunity for program feedback. <i>Kimi Grzyb, Oregon DEQ</i>
12:00–01:00 PM	LUNCH PROVIDED	
01:00–02:00 PM	0.1 The "ins and outs" of creating a legal utility UAS (Unmanned Aerial System) Program Navigating FAA rules and regulations concerning commercial use of drones in W and WW systems. The City of Salem's journey to create a program, how the City is using them, and the best practices, tools, and resources. <i>Devin Doring, City of Salem</i>	USDA Funding Options The funding options for water and wastewater systems available through USDA Rural Development in Oregon. The steps to take before a project is off the ground and working through the project from the funding side of things. <i>Holly Halligan, USDA</i>
02:00–02:15 PM	BREAK	
02:15–03:30 PM	0.125 Chemical feed pumps and flow meters W and WW chemical feed pump application, operation, maintenance and installation. Specifying and understanding flowmeters. <i>Phil Pelletier, Furrow Pump</i>	Hydro-Excavation Technologies, tips, tricks and operator's safety in Hydro-Excavation. Air conveyance, flow vs. pressure, filtration, set-ups and positioning. <i>Si Norris, Owen Equipment</i>
03:30–03:45 PM	BREAK	
03:45–04:45 PM	0.1 Chemical feed pumps and flow meters CONTINUED	Nozzle Selection for Hydroexcavation Performance and efficiency technologies available in nozzles and the right nozzle based on application. Safety and proper operations of nozzles. <i>Eric Lundy, Owen Equipment</i>