



OREGON ASSOCIATION OF WATER UTILITIES

41st Annual Management & Technical Conference

March 4–8, 2019 • Sunriver Resort

REGISTRATION INFORMATION & SCHEDULE

CONFERENCE EVENTS & INFORMATION

Monday, March 4, 2019, 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 5–8, 2019 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 7, 2019 and identify yourself as attending the Oregon Association of Water Utilities event.

Lodge Village Guestrooms: Single \$130, Double \$145

Lodge Village Suites: Single \$194, Double \$194

River Lodge Guestrooms: Single \$190, Double \$190

Annual Banquet and Awards Program

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

The 2018 awards to be presented during the banquet are water, wastewater, manager and/or office manager, rookie, associate member, and friend of rural water.

Featuring magician Hart Keene at 7 pm.

Nominations for 2018 Awards

Recognize the outstanding employees at your utility for professional excellence and service in 2018. Please submit your nomination(s) for these awards no later than February 1, 2019. Nomination forms are available online at www.oawu.net or through the OAWU office.

Annual Best Tasting Water in Oregon

Join OAWU in their 24th 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.

Magician Hart Keene

*Interactive illusion,
mind-reading, and comedy*

Hart Keene doesn't just present illusion and mentalism, he brings the experience of wonder and awe to an event. With an engaging personality that will enthrall even the most experienced audiences, Hart lights up events with his quick wit, charm, and jaw-dropping illusions.



Hospitality Night Social

Join OAWU Thursday for Exhibitor Hospitality Night! The Hospitality Night Social will be held Thursday in the Homestead, 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 with the popular J.P. and the Soul Searchers.

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

Monday, March 4, 2019 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 #3577*

LANDMARK I/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 #3388*

HERITAGE I 8:00 AM – 12:15 PM
Flagger Certification
 Attend this ODOT flagger course to obtain flagger requirements. Attendees completing this course and exam become an ODOT certified flagger through the Chemeketa Community College course. *Keith Williams, Deschutes and Ochoco National Forest – 0.4 W/WW CEUs*

HERITAGE II 8:00 AM – 4:15 PM
Effective Utility Management
 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 of a well-rounded water and wastewater utility management. *Scott Berry, OAWU – 0.6 W/WW CEUs*

Tuesday, March 5, 2019 Conference Schedule

Registration Desk Open 8 am–5 pm

0.575 Total CEUs

10–10:30 am	GREAT HALL	Opening Session Jason Green, OAWU Executive Director Opening Doors for Future Operators Attracting new personnel in the water & wastewater industry. Building experience, training and longevity at your utility. w/ww		
10:30–11 am	GREAT HALL	National Rural Water Association Update – Kent Watson, NRWA Board President The state of water and wastewater at the national level. w/ww		
11 am–12 pm	GREAT HALL	Legislative Update – Mark Landauer, OAWU/SDAO Lobbyist The latest issues of State Legislature activities concerning water and wastewater utilities. w/ww		
12 pm–1 pm	HOMESTEAD	Lunch Break		
1–2:45 pm	GREAT HALL	Basic Maintenance 101 for Pumps Maintenance for pumps including Pump Maintenance for End Suction, Frame Mounted, Submersible Sewage, Turbine, and Pump Alignment. <i>Lee Vernam & Mark Carroll, Hurley Engineering</i> w/ww	LANDMARK I/II Application and Use of VFDs Learn the basics behind how VFDs work. See when, where, and how they can be used. Looking at different applications for water and wastewater utilities and how to get the most out of your system. <i>Ed Butts, Project Delivery Group</i> w/ww	HERITAGE I Water Right Forecasting and Preparedness An overview of the Water Rights process for a municipality including drought preparedness, forecasting future water needs, grant opportunities and curtailment planning. <i>Kerri Cope, OWRD</i> w/ww
			HERITAGE II The Tree What do you do when it is in your easement or right-of-way? Property interests to remove vegetation from an easement without liability to the landowner, property interest you hold to where the tree is growing, what if the property interest is not in writing, how to read a license, easement, or right-of-way. <i>Lindsay Thane & Laura A Schroeder, Schroeder Law Offices</i> w/ww	
2:45–3 pm	GREAT HALL LOBBY	Break		
3–5 pm	GREAT HALL	System O&M Operate and maintain a water/ wastewater system. From paperwork you keep, critical parts inventory, budget, training, staff succession, 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, Ed Pugh)</i> w/ww	LANDMARK I/II Addressing Seismic Concerns For your System including new WMCP Requirements Review the ins and outs of a seismic assessment for your system, real life experiences with seismic retrofits and looking into the new Division 61 seismic requirements. <i>Jason Branstetter, City of Gresham</i> <i>Walley McCullough, EWEB</i> <i>Peter Boone, TVWD</i> w/ww	HERITAGE I Leak Detection Leak detection in water and wastewater systems to better utilize basic correlation techniques for distribution and collection systems. Learn the various methods available to identify and find leaks. A variety of equipment will be demonstrated and used. <i>Scott Berry, OAWU</i> w/ww
			HERITAGE II Water Right Leasing Can or should I lease the water rights and how? What water rights may be leased, eligibility criteria, forfeiture and cancellation concerns. Tips for writing a successful application. Negotiation techniques for third party pricing and which agency may hold the lease. <i>Laura A. Schroeder, Schroeder Law Offices</i> w	
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 Glock 9 mm pistol will go toward the Jeff Swanson Memorial Scholarship Fund.

The raffle of a BigHorn 19.1 Cu Ft Gun Safe, 30 minute Fire Protection, raises funds for OAWU activities.

Tickets will be available for sale Tuesday after morning opening sessions through Thursday evening. Drawings to be held Thursday during the Hospitality Night Social in Homestead Hall.



Wednesday, March 6, 2019 Conference Schedule					Exhibition Hours 11:30 am to 5 pm		0.75 Total CEUs	
7–8 am		HOMESTEAD		Breakfast				
8–9 am	GREAT HALL Meeting and Exceeding Water Quality Objectives Look at different treatment methods and technology that can be used in water and wastewater treatment to meet our water quality objectives. <i>Lisa Farman, Clean Water Technology</i> W/WW		LANDMARK I/II Operation of an Anerobic Lagoon The ins and outs of operating, managing and maintaining an anerobic lagoon system. What it can treat and how it works. <i>Dick Heard, Heard Farms</i> WW		HERITAGE I Avoid the Truck Roll – Remote Shut-Off Meters For late paying customers where a truck-roll is required to turn the water off or back on there is AMR/AMI technology combined with valves and meters to provide the ability to do this remotely. <i>Michele Harvey, Badger Meter</i> W		HERITAGE II Hydro-Excavation Technologies, tips, tricks and operator's safety in Hydro-Excavation. We will cover air conveyance, flow vs. pressure, filtration, set-ups and positioning. This class will allow an operator to Hydro-Excavate more efficiently and safely. <i>Si Norris, Owen Equipment</i> W/WW	
	GREAT HALL GIS and Mapping Your System How operators use GIS daily: locates, tracking maintenance, and logging notes. How a system might go about mapping: 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> W/WW		LANDMARK I/II Plant Startup Testing Case Study and DEQ Perspective Coos Bay describes start-up of new WWTP (Nov. 2018). DEQ on general commissioning requirements; also an update on DEQ pump station design standards. <i>Tim Caire, DEQ</i> <i>Jan Kerbo, City of Coos Bay</i> WW		HERITAGE I Maximizing the Life and Performance of your Water Well Flexible drop pipe for friction loss, electrical savings, different installation and retrieval methods, quick installation (8min install of 750'), quick retrieval, the ability to maintenance and rehab your well quickly and efficiently, and test pumping. <i>Carlos Guerra, Hose Solutions Inc.</i> W		HERITAGE II Submersible Pumps Demystified Modern pumps focusing on the science and the practical application of the design of major pump components, modern materials focusing on wastewater pumps. The manufacture's perspective and real-world application. <i>Simon Cartwright and Dave Olson, Xylem</i> W/WW	
10–10:15 am		GREAT HALL		Break				
10:15 am–12 pm	GREAT HALL Asphalt Use in Utilities: Code of Practices 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. <i>Bill Bailey, EZ Street/Lakeside Industries</i> W/WW		LANDMARK I/II Benefits of MIOX The onsite generation process, including mixed oxidant (MOS) chemistry used at utilities and the evaluation of field data collected and how it has significantly improved water quality and how it has saved municipal utilities significant costs. <i>Larry Lemasters, Johnson Matthey</i> W/WW		HERITAGE I Flow Efficiency in Liquid Conveyance Systems How vacuum and entrained air/gas affect flow characteristics in any water or wastewater system, and considerations for responsible design. <i>Geoff Robinson, Frank J. Martin Co.</i> W/WW		HERITAGE II Confined Space and Hydrant Need to Know This class will cover safety concerns and utility needs for entering and working around a confined space. Then will look at basic hydrant use, maintenance, and repair. <i>Frank Ray, EJ</i> W/WW	
	12–1 pm		HOMESTEAD		Lunch Break – Exhibits Open – Game Tournaments Kick Off			
1–3 pm	GREAT HALL Concrete and Steel Tank Maintenance A comparison between the proactive and reactive in maintaining Steel and Concrete Tank Coatings. Including benefits and drawbacks associated with each method including risk analysis, material selection, preparation and application issues, common failures, and cost effectiveness. <i>Jeff Austin, SUEZ</i> W/WW		LANDMARK I/II Pro-Biotic Dredging® A New and Cost-Effective Strategy Sludge removal, how to determine your cost and new and accepted alternatives to mechanical extraction processes, including Pro-Biotic Dredging® for the removal of sludge deposits. This will include how sludge calculators can help determine sludge levels. <i>Becky Haugen, BioLynceus</i> WW		HERITAGE I Well Design, Construction, and Rehabilitation Long term well performance is dependent on many factors including how the well is designed, constructed, and later how it is operated and maintained. Key well design and construction factors, real world successes and failures. <i>Jim Bailey, Shannon Wilson</i> W		HERITAGE II Control Valves This class will discuss basic hydraulics, principles of operation, maintaining, adjusting, repairing, problem solving and troubleshooting of control valves. <i>Dale Fletcher, GC Systems Inc.</i> W/WW	
	3–3:15 pm		HOMESTEAD		Break – Exhibits Open – Game Tournaments			
3:15–5 pm	GREAT HALL Emergency Response and Communication During an Emergency Salem issued a health advisory for cyanotoxins in drinking water, causing widespread concern among water customers and drawing national attention. The OHA developed rules to regulate cyanotoxins in Oregon. <i>Jason Pulley, City of Salem</i> W/WW		LANDMARK I/II Collection System Strategies Managing collection systems and utilizing pre-treatment to enhance plant operations. Including: FROG (Fats, Rags, Oils, and Grease), H2S Mitigation, odors, corrosion, and other contaminants and their impact are examined. <i>Becky Haugen, BioLynceus</i> WW		HERITAGE I Well Design, Construction, and Rehabilitation (Continued) W		HERITAGE II Pressure Reducing Station Design, Maintenance and Troubleshooting Learn the design considerations and the essential components for a complete, functional pressure reducing station, how to maintain your station and troubleshooting techniques. <i>Dale Fletcher, GC Systems Inc.</i> W	
	5:30–6 pm		GREAT HALL LOBBY		No-Host Meet & Greet			
6–9 pm		GREAT HALL		Annual Banquet & Awards Program				

0.75 Total CEUs



41st Annual Management & Technical Conference

Registration Information • Page 5

Friday, March 8, 2019 Conference Schedule

0.4 Total CEUs

7-8 am GREAT HALL LOBBY Breakfast				
8-9 am	GREAT HALL Circuit Rider Roundtable Needs for projects, planning, funding, project inspection and implementation. Real-life stories on project management, board interactions, and problem solving at your water and wastewater utility. <i>Darrel Lockard, Retired OAWU Circuit Rider Staff</i> w/WW	LANDMARK I/II Developing a Strategic Plan for your Utility Strategic planning at a 60,000-foot view. Review the City of Bend's strategic plan: layout, plan information, discuss smaller scale plans. Mission, Vision, and Goals of the plan. <i>Mike Edwards, City of Bend</i> w/WW	HERITAGE I It's Just a Ditch: Do I need a permit for drainage? Why "a wet spot" or "ditch" may be a "Waters of the United States (WOTUS)" under the Clean Water Act as courts and how regulatory agencies have defined it; hints to help you determine whether there has been a "wetlands" delineation or other determination in the area; what agencies may have jurisdiction. <i>Laura Schroeder, Schroeder Law Offices</i> w/WW	HERITAGE II Protective Coatings Update: Understanding and Mitigating Corrosion Materials used for assets in water and wastewater treatment plants (steel, concrete, stainless, aluminum, galvanized etc.), common corrosion issues, and challenges. We will then discuss some ideas on how to prevent corrosion, including some of the specialized coatings technologies. <i>Ron Watts, PPG Industries</i> w/WW
	GREAT HALL Circuit Rider Roundtable <i>continued</i> w/WW	LANDMARK I/II Developing a Strategic Plan for your Utility <i>continued</i> w/WW	HERITAGE I It's Just Email When are communications public under meetings & records laws? Consider the risks of using publicly owned/employer computers for private email or political activity. Tips on when to limit the use of group email and "reply all." What constitutes a public meeting on email? How to comply with Oregon law. <i>Lindsay Thane, Schroeder Law Offices</i> w/WW	HERITAGE II Low Salt Hypochlorite Types of sodium hypochlorite. Properties and decomposition defined, how to handle, manage, store, and deliver this chemical. Design considerations for remodeling a chemical system. <i>Cindy Yost, Hasa Inc.</i> w/WW
10-10:15 am GREAT HALL LOBBY Break				
10:15 am-12 pm	GREAT HALL Chemical Feed Pumps and Flow Meters Water and Wastewater chemical feed pump application, operation, maintenance and installation. Specifying and understanding water flowmeters. <i>Phil Pelletier, Furrow Pump</i> w/WW	LANDMARK I/II Developing a Strategic Plan for your Utility <i>continued</i> w/WW	HERITAGE I Rate/Ownership Changes: The Do's & Don't of the Oregon PUC With aging infrastructure concerns, "for profit" private water companies are receiving additional scrutiny from PUC. Owners must attend to rate petitions and must be more vigilant than in the past. Changes that must be reported to the PUC, when and how-to best report and/or navigate any approval processes for such changes. <i>Wyatt Rolfe, Rolfe Law Offices</i> w/WW	HERITAGE II (no class)
	12-12:15 pm GREAT HALL	Conference Conclusion Jason Green, OAWU Executive Director Opening Doors for Future Operators <i>(conclusion)</i>		

Game Tournaments

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



REGISTRATION POLICIES

Early Bird Registration: Receive a \$30 discount for each full conference registration postmarked by February 4, 2019. 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 25, 2019), 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 41st Annual Management & Technical Conference

CONFERENCE AND PRE-CONFERENCE REGISTRATION

MARCH 4–8, 2019

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)		Fee	Subtotal
<input type="checkbox"/> Small Water System Training (0.6 Water CEUs / 0.4 WW CEUs)	System ID #41- _____	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"/> Flagger Certification (0.4 Water / Wastewater CEUs)		\$120	
PRE-CONFERENCE TOTAL			

Full Conference (Tuesday–Friday)

Conference Registration	Early Bird (postmarked by Feb. 4)	Standard (postmarked after Feb. 4)	Subtotal
OAWU Member	\$320	\$350	
Non-Member <i>(non-members receive a one-year individual membership with conference registration)</i>	\$420	\$450	
TOTAL REGISTRATION FEES			

Additional Meals for spouses or guests	Quantity	Fee	Subtotal
Wednesday Evening Banquet		\$35	
Tuesday Lunch		\$25	
Wednesday Lunch		\$25	
Thursday Lunch		\$25	
Wednesday Breakfast		\$15	
Thursday Breakfast		\$15	
Friday Breakfast		\$15	
TOTAL ADDITIONAL MEAL FEES			

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.

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

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
503-837-1212 Fax 503-837-1213
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**41st Annual Management &
Technical Conference in Sunriver
March 4–8, 2019**

**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 24th 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 5, 2019.**

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

A panel consisting of OAWU and other 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.***