



2021 Oregon Onsite Wastewater Conference - A Virtual Experience

Live Webinar: April 9 & 10, 2021

Earn 1.2 CEUs



The ongoing challenges from Covid 19 and the fires of 2020 have shown us the importance of properly sized and operating onsite systems in Oregon. This year's conference is intended to strengthen our knowledge in this essential industry. We have a wide range of topics and speakers, including nationally recognized speaker Dr. Sara Heger.

Opening Presentation - Impacts of COVID-19 on Septic Systems. Dr. Sara Heger is an engineer, researcher, and instructor at the University of Minnesota in the Onsite Sewage Treatment Program in the Water Resources Center and is an Adjunct Assistant Professor in the Bioproducts and Biosystems Engineering Department.

CONTINUING EDUCATION UNIT REQUIREMENTS

DEQ: Under OAR 340-071-0650, installer and maintenance provider recertification are required every three years following initial certification. 18 hours (1.8 Continuing Education Units, CEUs) of approved continuing education are required.

EHS: Environmental Health Specialists and Wastewater Specialists must complete 2.0 credits, or 20 contact hours every two years as specified under Oregon Administrative Rule (OAR) 338-020-0050.

CONTINUING EDUCATION UNITS – CLASS HOURS

All sessions will be presented in a LIVE webinar format. To receive credit for attending, you will need to be logged in to the live webinars AND there will be a poll question you will need to answer in each session. You will be able to earn up to 1.2 continuing education units during the two-day conference 12 hours of class time for both Maintenance Providers and Installers certification licenses.

ALL ATTENDEES MUST REGISTER ONLINE BEFORE APRIL 7TH

Register online @ <https://conta.cc/3qxEZ0C> Pay with a credit card or mail in a check.

No refunds for cancellations after April 7th.

REGISTRATION FEE:

50 % DISCOUNT FOR O2WA & NOWRA MEMBERS WITH ACCESS CODE TO "APPLY" AT REGISTRATION ONLINE

1.2 CEU Two Days \$480.00 non-member OR 0.6 CEU 1 Day \$240.00

Registration includes access to all live sessions as well as access to the recordings after the sessions are completed. (Attendees must attend the live sessions and answer a "poll question" to receive credits.) 12 hours of class time.

O2WA | 70 SW Century Dr., #353, Bend, OR 97702 | Phone 541-389-6692 | Email info@o2wa.org | Website www.o2wa.org

APRIL 9TH FRIDAY

8:00 Orientation

8:15 - 9:15 Impacts of COVID-19 on Septic Systems – Sara Heger, University of Minnesota Onsite Sewage Treatment Program

This presentation will discuss how COVID-19 is treated septic systems and how the wastewater surveillance on both wastewater treatment plants, and septic systems is being conducted. Another challenge that will be discussed is the shifting of wastewater production as many people shifted towards using home offices, home schooling and generally spent much more time at home and the increased their load to their system. At the same time, the use of sanitary wipes and other sanitizing products increased due to heightened safety concerns. This presentation will discuss the short- and long-term potential impacts of these issues.

9:30 – 10:30 Large System Considerations – Brannon Lamp, REHS, Aqua Resource Design & Consulting

System design considerations for hospitality facilities i.e., wedding venues, wineries/tasting rooms, B&B's, etc.

11:00 – 12:00 Pumps 101 – Scott Hammerschmith

Wastewater pumps are an integral part of most onsite septic systems, and they come in all shapes and sizes. In this webinar, we'll cover the differences between various types of pumps and explain how to size and use pumps for onsite systems.

12:00 – 1:00 LUNCH BREAK VIRTUAL PRESENTATION OF THE LIFETIME ACHIEVEMENT AWARD TO STEVE WERT, REHS

1:00 – 2:00 Tank Installation – Matt Gibbs, Roth USA

Basic tank installation training with an option to become a "Certified Roth Installer". Followed by discussions on more advanced/difficult installations including high water tables, traffic rated installs and deep buries. Informal format with questions and group participation highly encouraged.

2:15 – 3:15 Basic Electrical Theory & Panel Troubleshooting Basics - Mark McCollum, SJE-Rhombus/CSI Controls

This presentation how a control panel works electrically, and how to identify a problem safely and correctly in the field. Class will cover basic electrical theory as it relates to residential/light commercial control panels, common electrical terms, symbols, and how to read a basic schematic.

3:30 – 4:30 Design with O&M in Mind – Dennis Boeger, PE, CWRE, Boeger and Associates

This presentation will share my experiences over the course of 28 years where the effectiveness of operation and maintenance of onsite systems is often based on the design approach implemented. Designers, Installers, and Service providers should benefit from the experiences and photos I will share of both effective and poor ways to develop an onsite system.

4:30 Conclusion

APRIL 10TH SATURDAY

8:00 Orientation

8:15 – 9:15 Hours of Service of Commercial Vehicle Drivers – Paula Hartland, ODOT

It's with the best of intentions that we all set out to abide by the laws and regulations governing our industry. However, best laid plans can be derailed by unexpected delays, emergencies, ever changing regulations and life in general. Join me for a look into the new Hours of Service regulations governing your drivers, applicability and record keeping requirements in the event of an inspection or audit.

9:30 – 10:30 Soils – Texture, structure, color and how they relate to septic systems - Robert Goodwin, Onsite Wastewater Specialist, Marion County Public Works County

This class will provide a background on soil texture, structure, porosity, water table and other important features related to siting onsite septic systems. We will also cover topics such as permanent water tables and rapidly draining soils that require additional design considerations.

11:00 – 12:00 TSS – Sources, Impacts and Solutions – Sara Heger, University of Minnesota Onsite Sewage Treatment Program

Total suspended solids (TSS) are found in all wastewater in varying amounts. The type of facility and activities influence the levels in the raw wastewater. The sizing of our primary treatment in our septic tank and the use of filters impacts the levels as well. The effectiveness of our aerobic units and media filters is another variable in the levels of TSS. If the levels are elevated it can impact the clogging of filters/screens, media filters, and soil treatment system. This presentation will discuss use, design, and management options to reduce the impacts of TSS on system performance and longevity.

12:00 – 1:00 Lunch Break Update from NOWRA and O2WA Sara Heger & Dennis Boeger

1:00 – 2:00 Hydrosplitters The Principles & Practices of Pressure Assisted Distribution Brian Rabe, CPSS, WWS - Cascade Earth Sciences

This presentation will describe circumstances where the use of hydrosplitters is warranted or advantageous compared to alternative approaches. Important elements of design, installation, operational flexibility, and maintenance will be addressed.

2:15 – 3:15 Pumpers Best Practices for Customer Service– Trent Clinkscapes

Good customer service IS a pumpers best practice. From the initial phone call to following up after the job we will look into what makes customers happy and you become their go to pumper.

3:30 – 4:30 Septic Systems and the 2020 Beachie Creek Fire – Kimberlee Aldrich, WWS

This presentation will cover the Facts and Figures, Authorization Rules and Fire, Changes to Authorization Rules in regard to Fire and Damage to systems during the cleanup process.

4:30 Conclusion

Kimberlee Aldrich, WWS graduated from Oregon State University in June of 2007 with a BS in Crop and Soil Science, Soil Resource Option. Kim was with Yamhill County as the onsite regulator. Kim has joined the Marion County in 2019.

Dennis Boeger, PE, CWRE is principal of the engineering firm Boeger & Associates, LLC located in Eugene, OR. He has 25 years of experience in the evaluation, design, and construction management of small to large scale onsite wastewater systems across Oregon. His firm is also licensed in the neighboring states of Washington and California with current projects in both states. Mr. Boeger is also assistant chairperson on the Willamette Valley Groundwater Management Committee, which was established over 10 years ago to address nitrates in the groundwater within a portion of the Willamette Valley. He currently serves as President of O2WA as Engineer and has presented at previous O2WA annual conferences on the subject of "Designing with O&M in Mind".

Trent Clinkscales owner Clinkscales Portable Toilets & Septic Service for 25 years and 29 years in the industry. Trent became a Certified Service provider, NAWT septic inspector and a Certified Installer. Trent serves as Past President and Maintenance Provider Seat of the Oregon Onsite Wastewater Association.

Scott Hammersmith is a Product Manager with Orenco Systems® Inc., a wastewater equipment manufacturing firm based in Sutherlin, Oregon. In this role, he manages the development processes for new and existing Orenco products, with a focus on engineered systems. He was instrumental in the Oregon launch of Orenco's AdvanTex® product line and led the development of Oregon's AdvanTex Service Provider network. He has also been involved with several multi-stage AX-Max™ denitrification projects. Scott earned his associate's degree in applied science from Umpqua Community College and has previous experience as a contractor doing site work, excavations, wastewater system installations, and concrete finishing. When he's not working, Scott enjoys family time with his wife and children, as well landscape photography and spending time outdoors.

Paula Hartland is a Compliance Specialist with the Oregon Department of Transportation in Motor Carrier Safety. She began her career with ODOT 20 years ago in the registration office at the Woodburn Port of Entry. She has spent the last 13 years in the Salem Central Safety Unit conducting on-site compliance reviews of motor carrier operations, performing truck inspections, providing training to industry and law enforcement and performing commercial vehicle crash investigations.

Dr. Sara Heger is an engineer, researcher, and instructor at the University of Minnesota in the Onsite Sewage Treatment Program in the Water Resources Center and is an Adjunct Assistant Professor in the Bioproducts and Biosystems Engineering Department. For over 20 years, she has been conducting research and providing education and technical assistance to homeowners, small communities, onsite professionals, and local units of government regarding onsite wastewater treatment. She has presented in over 30 different states and provinces in North America regarding the science of wastewater treatment including design, installation, and management. Sara is the president elect of the National Onsite Wastewater Recycling Association. Sara serves on the NSF International Committee on Wastewater Treatment Systems. She is also the chair of the Minnesota State Advisory Committee on Decentralized Systems. She has BS in Biosystems & Agricultural Engineering and a MS and a PhD in Water Resource Science.

Matt Gibbs has been in the On-site Industry for about 20 years now. Most of his professional life has been working for product manufacturers but have also spent time in the installation and design aspects of the field. He is an Idaho Native and Graduate of the University of Idaho.

Robert Goodwin is an Environmental Health Specialist and Onsite Wastewater Specialist for Marion County. A former Virginia Tech Soil Judger, he has varied experience in site/soil evaluations, onsite system design, consulting, and inspection.

Brannon Lamp, REHS has attended Oregon State University and Portland State University. He holds a B.A. degree, as well as a B.S. in Environmental Science & Resources from Portland State, and has also completed Graduate studies in Education. Mr. Lamp's entry into the realm of Onsite Wastewater Treatment Systems occurred in 1999. His credentials include being a Registered Environmental Health Specialist (REHS) in the State of Oregon, as well as a Certified O&M Provider. He is also a Licensed Professional Onsite Wastewater Treatment Systems Designer in the State of Washington. Brannon is Past President and Treasurer of the O2WA board and past DEQ Technical Review Committee member. He currently owns and operates Aqua Resource Design & Consulting, LLC, actively providing environmental consulting and design of Onsite systems in Oregon & Washington.

Mark McCollum is a Regional Sales Manager for SJE Rhombus and covers the western USA. He has been with SJE Rhombus for 27 years and has experience in the manufacturing, testing and quality control of control panels, technical support, and marketing areas of wastewater controls. With all of this experience Mark has a unique understanding and in-site into controls and how they work and relate to our industry.

Brian Rabe, CPSS, WWS graduated from Oregon State University in 1987 with a BS in Soil Science. Brian was a member of the Soil Judging team that OSU fielded in 1985 – the first in several years - guided by the infamous coach and student advisor – Dr. Herb Huddleston. Brian was introduced to the onsite field while working as a student intern in the Roseburg office of the DEQ in 1986. Brian went to work for Cascade Earth Sciences in June 1987, immediately following graduation and has been working there ever since. Brian is a Certified Professional Soil Scientist and a Waste Water Specialist. His professional experience includes many projects where soils serve a vital role in the systematic treatment of human-induced waste products. His primary focus includes design of onsite and decentralized wastewater treatment systems, bio-solids management, irrigation of recycled water from food processors and municipalities, and other land application systems.