



2022 Oregon Onsite Wastewater Conference

Live Webinar: April 1st & 2nd, 2022

Earn 1.2 CEUs

This year's conference via Zoom will give you the opportunity to earn the CEUs needed for your certification while saving time and money! We have a wide range of topics and speakers, including nationally recognized speakers.

Affordable way to earn 1.2 CEUs during the two-day conference.

ABOUT THE CONFERENCE: 12 Hours of Continuing Education are available at the two-day conference. This conference is for industry professionals including public health officials, O&M service providers, engineers, consultants, installation contractors, septic pumpers, and others interested in onsite wastewater management. You will learn about the latest in onsite wastewater industry issues and approaches to onsite wastewater management.

All sessions will be presented in a LIVE online seminar 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.

Date: April 1st & 2nd

Location: Zoom Virtual Classroom

Registration Fee Per Person:

2 Day 1.2 CEUs \$494.00 - 1.2 CEUs

1 Day 0.6 CEUs \$249.00 - 0.6 CEUs

50% PROMO CODE for current members. Contact the office if needed. Remember to select "Apply" when registering.

Register Online

New for 2022 - Zoom Host locations may be available to attend in your area. You may also offer to be a host a location. When registering let us know how you will be attending - at host site or individually.

Contact the office if you have questions! info@o2wa.org

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.

Friday, April 1, 2022, Class Schedule Topics Speakers	
8:30 - 9:30	Tank Buoyancy and Anti-Flotation Measures
	David Lentz, P.E., Regulatory Director, Infiltrator Water Technologies
0.1	An important consideration in the installation of septic, pump, or holding tanks is the risk of flotation due to the presence of groundwater above the bottom of the tank. The goal of this presentation is to prompt regulators, designers, and installers to think about buoyancy for the installation of any tank installation. When a rigid object such as an empty septic, pump, or holding tank is partially or fully submerged in groundwater, an upward force is exerted on the object that is equal to the weight of the displaced groundwater. This presentation will develop two very simple models for evaluating buoyant force. Engineering controls, such as ballast systems, concrete pads, and helical anchors and associated best installation practices are evaluated. This presentation will include a discussion of Archimedes' principle, basic geotechnics of buried tanks, uplift forces, buoyancy control function, and buoyancy control best practices.
9:45 - 10:45	Your Septic System on Drugs
	John Buchanan, Ph.D., P. E Associate Professor and Extension Specialist, Construction Science, Water and Wastewater Engineering, Biosystems Engineering and Soil Science - University Tennessee.
0.1	Recently the U.S. FDA established a ban on consumer products containing triclosan, the active ingredient in most antibacterial soaps. The concern is two-fold: there is strong concern that the overuse of antibiotics will generate new antibiotic-resistant microorganisms, and there little understanding about triclosan's fate in wastewater treatment systems. However, triclosan is not the only product of concern - if you are on a medication, so is your septic system. Oral medications have to be digested before the active ingredients can enter the bloodstream and be transported within the body. For many medications, only 20% of the active ingredient provides a clinical benefit (clearing a sinus infection or providing pain relief) while the remainder is metabolized and excreted from the body – mostly in the urine. This presentation will focus on pharmaceuticals and personal care products that enter septic systems and investigate the difficulties of removing these compounds out of the water.
11:00 - 12:00	Fact vs. Fiction and the Top Ten Septic Myths
	Dennis Hallahan, P.E., Technical Director
	Technical Director of Infiltrator Water Technologies
0.1	We have all heard them. Is Biomat bad? Does a distribution box or header manifold provide equal distribution? Are additives needed to start a septic tank? Well let us take a look. Here we will explore common industry myths and dispel them through science. Please join us for a discussion dispelling common myths.
1:00 - 2:00	Update on the Santiam Canyon Fire and Onsite Septic
	Kim Aldrich, Marion County Lead Septic Inspector, Robert Goodwin Marion County Septic Inspector & Aidan Bammes, Marion County Septic Inspector
0.1	Septic Fire Data, types of permits issued, workload, and Organizational and scheduling accountability, Aidan Bammes, Marion County Septic Inspector Permitting Challenges, case studies, Robert Goodwin Marion County Septic Inspector ODOT fire cleanup and septic challenges; the process of getting maps and septic information to third parties for fire cleanup. Some case studies as well, Kim Aldrich, Marion County Lead Septic Inspector
2:15 - 3:15	PVC Pipe Qualities, Performance & Limitations: x a Pipe Manufacturer
	Lewis Settle Retired HD Fowler
0.1	The purpose of this class is to define the different types of pipe and fittings and how they fit together with an emphasis on how to glue PVC pipe.
3:30 - 4:30	"E-Permitting to EZ-Permitting" - Utilizing the tricks of the trade to make office life easier for you and your staff.
	Corby Eden
	Office Specialist with DEQ in Coos Bay
0.1	Preliminary topics (all have the caveat that local programs will vary in how they run the program) <ul style="list-style-type: none"> • How to find out fact sheet on add'l info • How contractors get set up with e-Permitting • Which counties use e-Permitting • Signing Authority: who can sign, why, and what documentation is acceptable • Site plan min standards: How to get navigate office intake • How to get your PLAT Maps, no address needed • Annual reporting • Applying for onsite applications online • Uploading documents to e-Permitting • ORMS: how to access database and maximize search for files
0.6	Total CEUs

Saturday, April 2, 2022, Class Schedule Topics Speakers	
8:30 9:30	ODOT and Federal DOT: What's New??
	<i>Paula Hartland, Senior Safety Investigator, Federal Instructor and Inspector with the Oregon Department of Transportation</i>
0.1	Status Qui?? Never, No!! Things are always changing, more so than ever in recent years. State and Federal regulation govern that larger truck that you use to transport your equipment to and from your job sites. Make sure you are complying with the applicable rules and laws so that your truck and equipment can safely and legally make it to your job site and back home.
9:45 - 10:45	Pressure Distribution –Principles, Limitations, and Best Practices
	<i>Brian T. Rabe, CPSS, WWS, Managing Soil Scientist, Valley Science and Engineering</i>
0.1	This presentation will describe circumstances where the use of pressure distribution is required or advisable (or not) compared to alternative approaches. Important elements of design, installation, operations, and maintenance will be addressed.
11:00 12:00	System Service Communication & Reporting
	<i>Daniel M. Bush, REHS, Septic Technologies</i>
0.1	Presentation on methods and practices in communicating with clients about and reporting upon findings and results of system inspection and service. Will include do's and don'ts from direct experience and feedback from clients, discussion on relevant ethical matters and information and recommendations related to presentation, behavior and effectiveness in meeting the needs and expectations of clients.
1:00 2:00	Pump Basics
	<i>Larry O'Connor, RepCo Sales</i>
0.1	This presentation will cover six key areas: How to read a pump curve - Understand the difference between a sump pump, sewage pump, effluent pump and a grinder pump - How to size a pump - How to convert pressure to head - How to do a bar napkin horsepower sizing - Know which pump is more economical to operate, 115v ½ HP or 230v ½ HP.
2:15 3:15	Loan Program in Oregon
	<i>Jena Ross, VP, Clean Water Program Manager, Craft3</i>
0.1	Craft3 offers Clean Water Loans to finance septic system repair and replacement. This class will cover how the loan programs works and who qualifies. How contractors can help property owners in need of repair or replacement when a septic system is failing.
3:30 4:30	Questions from the Field
	<i>Panel lead by Brian Rabe & Daniel Bush</i>
0.1	This presentation will cover a variety of scenarios that come up in the field. Attendees will be asked to submit questions prior to and have time to ask questions during this closing session.
0.6	Total CEUs

SCHEDULE

Friday, April 1st

Welcome / Orientation 8:00-8:30 am

Classes from 8:30-12:00 nn

Lunch 12:00-1:00 pm

Classes from 1:00-4:30 pm

Saturday, April 2nd

Welcome / Orientation 8:00-8:30 am

Classes from 8:30-12:00 nn

Lunch 12:00-1:00 pm

Classes from 1:00-4:30 pm

To join the webinar, sent in your confirmation email.

For more tips go to the Zoom Resource Tab at

<https://support.zoom.us/hc/en-us/articles/115004954946-Joining-and-participating-in-a-Zoom-Webinar>

MEET OUR PRESENTERS...

Friday, April 1st
Dave Lentz manages Infiltrator Water Technologies' government affairs department, with responsibility for regulation of the company's effluent dispersal, tank, and treatment product lines. Nationally, Infiltrator is involved in rule making, legislation, and industry standards development supporting the onsite wastewater treatment system industry. Dave has 25 years of experience related to soil and groundwater systems. He holds a Bachelor's degree in structural engineering and a Master's degree in geotechnical engineering and is a licensed professional engineer.
John R. Buchanan, Ph.D., P.E. - Dr. John R. Buchanan is an Associate Professor and is on the faculty of the Biosystems Engineering and Soil Science Department at the University of Tennessee. He has 32 years of teaching, research, and outreach experience in the areas of onsite and decentralized wastewater management, water supply, water quality and storm water engineering. Dr. Buchanan has B.S. and M.S. degrees in Agricultural Engineering and a Ph.D. in Civil Engineering, all from The University of Tennessee. John is a member of the Water Environment Federation, Soil and Water Conservation Society, NOWRA, and the American Society of Agricultural and Biological Engineers. He is a registered professional engineer in Tennessee.
Dennis F. Hallahan, P.E., is the Technical Director of Infiltrator Water Technologies. Dennis has over 30 years of experience with the design and construction of on-site wastewater treatment systems. He has authored several articles for on-site industry magazines and has given numerous presentations nationally on the science and fundamentals of on-site wastewater treatment systems. Dennis also oversees a department that is responsible for product research and testing for both Universities and private consultants. The department develops system sizing charts for national and international approvals and assists customers and field representatives in the planning and review of large decentralized systems. He received his MS in civil engineering from the University of Connecticut and his BS in civil engineering from the University of Vermont. Dennis is a registered professional engineer in Connecticut. He has been with Infiltrator for over 16 years and in his current position as Technical Director, he is responsible for the technology transfer between Infiltrator and the regulatory and design communities. Dennis also holds several patents for on-site wastewater products. Member ASCE, WEF, serves on the NOWRA Technical Practice and Educational Committees, also on the New England Water Environment Federation's Small Community Committee.
Kimberlee Aldrich, WWS graduated from Oregon State in 2007 with a BS in Crop and Soil Science and has been an onsite inspector for 15+years and is the Lead Septic Inspector for Marion County.
Aidan Bammes is an Onsite Wastewater Specialist for Marion County with a BS in Geology from Oregon State University. Aidan has taken on the task of structuring Marion County's post-fire response after the Beachie Creek and Lions head wildfires of 2020.
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.
Lewis Settle, HD Fowler Lewis Settle worked in the pipe outfitting industry for over 25 years. Lewis Settle obtained his degree landscape architecture from Texas Tech. He was a Landscape Architect for 15 years. Lewis was the President of Aero Space Tool and Technology - Manufacturing tools that disassemble and reassembles turbine aircraft engines. Was with United Pipe now retired distributor with HD Fowler for 10 years. Lewis has specialized in the onsite industry for 20 years.
Corby Eden is an Office Specialist with DEQ in Coos Bay. Corby provides on-site septic support for Coos, Jackson, Wallowa, Baker, and Union counties. He serves as a primary contact between the DEQ's direct services for onsite septic and the Oregon Department of Consumer and Business Services (DCBS) regarding e-Permitting. This role also requires him to provide e-Permitting support for the office staff of many counties who run their own direct services for onsite septic. Corby is an ABA certified paralegal with 22 years of experience in the legal field. Upon leaving the legal world, he was a business manager for a septic company for two years prior to joining the DEQ in 2020. This gives him a unique understanding and perspective on the public experience with Accela and e-Permitting. Prior to joining the septic industry, Corby worked with over 50 different Accela databases across the country and is proficient in its use across multiple platforms and applications. Corby fulfills Public Records Requests and is designated as a staff trainer for Oregon's Online Record Management System (ORMS).
Saturday, April 2nd
Paula Hartland is a Compliance Specialist with the Oregon Department of Transportation in Motor Carrier Safety. She began her career with ODOT 24 years ago in the registration office at the Woodburn Port of Entry. She has spent the last 17 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. Thank you to Paula for present at the conference for the past 11 years.
Brian Rabe – Brian 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 Valley Science and Engineering (formerly 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 Wastewater Specialist. He is a charter member of the Oregon Onsite Wastewater Association, as well as a prior 12-year board member and former 2-term president. His professional experience includes many projects where soils serve a vital role in the systematic treatment of human-produced waste products. His primary focus includes design of onsite and decentralized wastewater treatment systems, biosolids management, irrigation of recycled water from food processors and municipalities, and other land application systems.
Daniel M. Bush, REHS Has worked in the field of onsite wastewater since July 1973, both in the public (regulator) and private (consultant, contractor) side of the industry. Has been focused on the field of system management (O&M) since 1994. Been a member of Rule Change Committees, the Technical Review Committee and an instructor in the Service Provider certification program. Currently semi-retired, working for Septic Technologies in an administrative, technical support capacity.
Larry O'Connor established RepCo Sales Agency in October 2002. He specializes in residential waste and clean water pump solutions to commercial and municipal solutions engineered to exact standards.
Jena Ross joined Craft3 in 2009 and is the Clean Water Program Manager. She managed the clean water program across Oregon and Washington and is the primary contact for state and local government and clean water contractors. In addition, she offers intensive hands-on customer service and provides guidance to other Craft3 Consumer Lenders on clean water program details. Prior to joining Craft3, Jena was Branch Manager at Raymond Federal Bank in Long Beach, Washington. She was with that institution for more than 20 years. Founded in 1994, Craft3 is a regional nonprofit that makes loans in Oregon and Washington that strengthen the resilience of businesses, families, and nonprofits, including those without access to traditional financing. We lend to growing and start-up businesses that make positive community impacts, and homeowners upgrading energy features or failing septic systems.