

2024 OREGON ONSITE WASTEWATER CONFERENCE

APRIL 5/6, 2024

Registration available online - www.o2wa.org

SCHEDULE & CLASSES

NOTE - Schedule and speakers subject to change without notification.
CEUs approved by OESAC and OHLA.

Friday, April 5th		
0.6 CEUS	SCHEDULE	CLASSES
	7:00 – 8:00	Registration Desk Open / Equipment Rodeo Check In / Breakfast
	7:00 – 10:30	Exhibitor Set Up
	8:00 - 8:30	Opening President Dennis Boeger, PE
0.1	8:30 - 9:30 Opening Session	Dennis F. Hallahan. P.E. (CT) Infiltrator Water Technologies The Top Ten Septic Myths - The myths seem to abound in the onsite industry more so than any other. This presentation will discuss various myths and then discuss the facts and science to address the common misconceptions. This will allow the decentralized industry to have a more professional stance and raise the level of the industry.
0.1	9:40 - 10:40 General Session	Edward Varga, E&A Systems –Discussion with Industry Professionals Team Effort to Install a New System Panel of industry professionals - We would like to bring to light what all it takes to get a system installed, the main steps in Designing — Permitting — Supplier — Installation — Regulator — Customer.
	10:40	Exhibit Hall Open / Break
0.1	11:00 - 12:00 General Session	Doug Dilley James Erlei Ferguson Installers Onsite Investigation Digging deeper into what we see when we drive up to a system with a potential issue. This course is intended to help all those who may be asked to identify issues with an on-site septic system. The objective of this course is to take what we see at first glance of a potential problem and evaluate what the root cause and possible repair solutions may be.
	12:00 – 1:30	Lunch / Exhibit Hall Open / ROE-D-HOE® Competition
0.1	1:30 – 2:30 Break Out Session 1	Eric Arritola SITECH Oregon Trimble Siteworks Machine Guidance Module This class will cover the solution for machine guidance on your excavator and layout that enables contractors to use the same hardware and software to perform a variety of tasks on the job site. Bridge the gap for operators to be more efficient, effective, and accurate.
0.1	1:30 – 2:30 Break Out Session 2	Lisa MacGregor, DEQ Licensing Coordinator Your DEQ Online - Your License Database DEQ has migrated from an obsolete database for licenses to an online portal where contractors can manage their license, renew & pay online among other activities. The presentation will help you navigate the new system.
0.1	2:40 – 3:40 Break Out Session 1	Kevin M. Sherman, SeptiTech, Inc. Flow Equalization Basics - Timed dosing allows flow equalization to work. Once flow equalization tanks have been inserted in a treatment train, all unit processes downstream of the insertion point have their estimated flow requirements changed from a demand to a time dosed basis.
0.1	2:40 – 3:40 Break Out Session 2	Corby Eden Program Analyst, DEQ Onsite Septic Program E-Permitting Made EZ This class is for help with the e-Permitting process. How to register, create an account, and utilize various functions. How to apply, navigate the system, and learn some tricks of the trade. Also, hear about some e-Permitting and Onsite Septic Program updates for 2024. Come with questions!
	3:40 – 4:10	Exhibit Hall Open / Break
0.1	4:10 – 5:10 General Session	Daniel Bush / Dan Buss Precovers, Like ‘em or Not Topic will cover the requirements for precover inspections, what the primary factors of an inspection are, where inspection responsibilities lie, how to prepare for a successful inspection and the importance of details. Presentation will be from the perspective and experience of both an installer and a regulator.
	5:30-9:00	Reception / Dinner / Auction

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SCHEDULE & CLASSES CONTINUED

Saturday, April 6 th		
0.6 CEUS	SCHEDULE	CLASSES
	7:00 – 8:00	Exhibit Hall Open / Breakfast Buffett
0.1	8:00 – 9:00 Breakout Session 1	Kevin M. Sherman, SeptiTech, Inc. Judging Aggregate Quality - Fine and coarse aggregates are the most variable components brought to the site for constructing an onsite wastewater treatment system. This presentation will discuss the characteristics of a quality aggregate and how to evaluate them.
0.1	8:00 – 9:00 Breakout Session 2	Joe Rebori, Manager Inquiries & Engineering, BioMicrobics Troubleshooting Wastewater Treatment Processes - Session covers common process issues in wastewater treatment, and how to narrow down causes with an understanding of relationships between wastewater parameters including BOD, total nitrogen, alkalinity, and pH. Indicators of toxicity in biological processes are discussed.
	9:00 – 9:30	Exhibit Hall Scavenger Hunt / Break
0.1	9:30 – 10:30 Breakout Session 1	Steven Sinks, Orenco Systems Tanks, Riser, and Lids / Safety This topic will cover why structurally sound septic tanks are important. The selection of the right size septic tank and how to select the correct size access riser and lid for the septic tank along with some installation tips. It will also cover septic tank safety.
0.1	9:30 – 10:30 Breakout Session 2	Brian Rabe, CPSS, WWS, Elkhorn Consulting Groundwater Nitrogen Assessment Tools This presentation will examine modeling tools used to assess potential impacts from onsite sewage treatment systems on groundwater nitrate concentrations. These tools include the Soil Treatment Unit Model (STUMOD) developed by researchers at the Colorado School of Mines and the Large OnSite System (LOSS) model from the State of Washington.
0.1	10:45 – 11:45 Breakout Session 1	Paula Hartland, Oregon DOT Everything ODOT Regulation review for safe on-highway operation of your CMV's and record keeping requirements
0.1	10:45 – 11:45 Breakout Session 2	Brian Rabe, CPSS, WWS, Elkhorn Consulting Nitrogen Treatment Processes and Tools This presentation will provide an overview of the systematic nitrogen treatment processes typically used in onsite sewage treatment. Included will be approaches to optimize each step in the process in order to achieve the lowest practical concentrations in a consistent, self-adjusting, sustainable, and cost-effective way.
	12:00 - 1:00	Lunch O2WA Updates Dennis Boeger, P.E. President / NOWRA Update Robert Sweeny, REHS, NOWRA Board Member
0.1	1:00 – 2:00 Breakout Session 1	Steve Rose, Anglers Septic & Excavation Field Effluent Analysis How to collect and troubleshoot treatment systems Video reviewing how to collect effluent samples and perform PH/Temp/D.O./Turbidity Review of the equipment and how to properly use it. We will discuss what the results mean and how to correct a system to achieve the desired treatment result Steve will be focusing on the Residential ATT Systems Approved in Oregon.
0.1	1:00 – 2:00 Breakout Session 2	Heather Nielsen, Clackamas Soil and Water Conservation District Financial Aid for Homeowners in Oregon As septic system repairs get more expensive; homeowners are looking for ways to help afford such a large upfront cost. There are financial aid programs throughout Oregon that can help homeowners with costly repairs. This presentation will outline the programs across the state and provide links for contractors to take back to their clients.
0.1	1:00 – 2:00 Breakout Session 3	Richard Hill, Sales Manager, TopCon Store Solutions MC Mobile for Your Mini Excavator Grade Control. 3-in-1 for your jobsite efficiency and effectiveness with your compact equipment. This class will review how to measure, design, and build with one system.
0.1	2:15 – 3:15 Breakout Session 1	Brannon Lamp, Aqua Resource Design & Consulting, LLC Alternative System Design, and Installation Techniques - A review of Onsite Systems and components that are installed less frequently. Sound installation practices will be covered in the discussion.
0.1	2:15 – 3:15 Breakout Session 2	Kevin Riddle, Sweet Water Sanitation, LLC Septic Pumping Basic recommendations to perform as a septic pumper. Including requirements of the equipment and its operation in accordance with Oregon DEQ and DOT. Recommended performance of pumping service, evaluating site needs, safety, and system operations. Speak on septic lid safety.
	3:15 – 3:45	Break
0.1	3:45 – 4:45 General Session	Dennis Hallahan, PE, Infiltrator Troubleshooting Tanks This presentation is from a series of NOWRA educational courses will discuss aspects and methods for troubleshooting tanks of various materials. It will also discuss troubleshooting the performance of tanks, such as: system backing up into the home, then there could be clogging due to various factors: roots, poor slope on inlet piping, bends, or possibly the pipe has settled, field inspection methods will be discussed to check these possibilities.
Total 1.2	4:45 – 5:00	Instructions & Closing Remarks Dennis Boeger, P.E.

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PRESENTERS BIO / TOPICS

Eric Arritola General Sales Manager SiTech Oregon - Trimble Siteworks Machine Guidance Module: Eric has been in the construction industry since he was 19 years old. Journeyman Electrician, Portland Electrical Construction, Inc., since 2006. Project Superintendent Robinson Construction Co. for 5 years. Superintendent P&C Construction for 5 years. Sales - Telematics & Lasers SiTech 6 years. Born and raised in Mt Angel and lives in Keizer, OR. Eric's goal is to bridge the gap for operators to be more efficient, effective, and accurate. SITECH Oregon is located in Aurora, OR 97002.

Daniel Bush - Precovers, Like 'em or Not: Daniel Bush started in the industry as a regulator in 1973, at both the County and State level until 1993. Moved into the private sector as a wastewater technician and consultant. Started a company, Septech, in 1995 specializing in systems operation and maintenance until 2016. An original instructor for the Maintenance certification program beginning in 2005 to the present. Has served on both DEQ Rule and TRC committees. Currently onsite representative on the OESAC board. Founding member of O2WA (1994).

Dan Buss - Precovers, Like 'em or Not: Dan Buss started a career in onsite wastewater in 1992 with Sani-Tech Excavation. Became a licensed installer and the business owner in 1996 continuing through 2016. Since, active as a consultant to property owners, homeowners, and contractors in onsite matters. Helped develop and instruct the original Installer training/certification course. Developed the newly updated course. Since 2007 Dan has served as an instructor of the Maintenance certification program. An industry CEU representative with OESAC. Member of O2WA since 1997.

Doug Dilley Ferguson - Installers Onsite Investigation: Doug Dilley Onsite Supplier, Ferguson Water Works Supplying Onsite products for residential and commercial systems about 15years.

Corby Eden Program Analyst, DEQ - Onsite Septic Program E-Permitting Made EZ: Corby Eden is the Program Analyst for DEQ's Onsite Septic Program. Corby provides on-site septic support for all DEQ direct service counties. He serves as a primary contact between 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 DEQ in 2020. This gives him a unique understanding and perspective on the public experience with Accela and e-Permitting.

James Erlei Ferguson - Installers Onsite Investigation: James Erlei Onsite Supplier, Ferguson Water Works Supplying Onsite products for residential and commercial systems 24 years.

Dennis F. Hallahan. P.E. (CT) - The Top Ten Septic Myths & Troubleshooting Tanks: Dennis F. Hallahan. P.E. (CT) Technical Director Infiltrator Water Technologies - Dennis is the Technical Director of Infiltrator Water Technologies. Dennis has over thirty-five years of experience with the design and construction of decentralized 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 wastewater research and testing for both Universities and private consultants. He has a MS in civil engineering from the University of Connecticut and a BS in civil engineering from the University of Vermont. Dennis holds several patents for wastewater products. Member ASCE, WEF, NOWRA, has served as chairperson of the NOWRA Technical Practices Committee and also serves on the NOWRA Educational Committee. Dennis is also a member of the New England Water Environment Federation and serves on the NEWEA and WEF Small Communities Committee.

Paula Hartland, Senior Compliance Investigator, Oregon DOT - Everything ODOT: Paula has been with the DOT in the Motor Carrier Unit for 26 years. Starting out in Registration Services, then moving on to Safety and Training where she conducts compliance reviews, crash investigations, truck inspections and federal training programs.

Richard Hill, Sales Manager, TopCon Store Solutions - MC Mobile for Your Mini Excavator Grade Control: Richard Hill, Sales Manager, TopCon Store Solutions - Richard has over 20 years of experience in the Survey and Construction world and now has over 17 years working with and for Topcon. All of this after serving 6 years in the Oregon Army National Guard. He now manages a teams of five sales reps and covers all of Oregon and parts of Washington.

Brannon Lamp, Aqua Resource Design & Consulting, LLC - Alternative System Design, and Installation Techniques: Brannon Lamp, Consultant/Designer, Aqua Resource Design & Consulting, LLC - Brannon started working in the industry in 1999 and is a Registered Environmental Health Specialist (REHS) in Oregon and a Certified O&M Provider. He is also a Licensed Designer in Washington State. In his spare time, Brannon enjoys hiking and backpacking, and plays golf marginally. He resides on the North Oregon Coast.

Lisa MacGregor, DEQ Licensing Coordinator - Your DEQ Online - Your License Database: Lisa MacGregor has been with DEQ as the SDS License Specialist since 2008. She is a life-long Oregonian and lives in the lower Willamette Valley with her family. She has a BA in Psychology from Penn State University.

Heather Nielsen, Clackamas Soil and Water Conservation District - Financial Aid for Homeowners in Oregon: Heather Nielsen manages the Septic Repair and Replacement Program and the Clackamas Soil and Water Conservation District. This program has traditionally been no-interest loans supported by DEQ's Clean Water State Revolving Fund, but in 2023 added a grant component funded by ARPA Funds through DEQ. Heather also coordinates the other loans in the district. Before joining the district in late 2022, she had been a Soil Scientist with Clackamas County in the Septic and Onsite Wastewater Program.

Brian Rabe, CPSS, WWS, retired from Valley Science and Engineering (formerly Cascade Earth Sciences) in October 2022 after more than 35 years as a full-time consultant. He has a BS in Soil Science from Oregon State University. Much of his recent focus has been on designing systems to achieve very high levels of nitrogen removal. He continues to provide selected services in a semi-retired capacity as Elkhorn Consulting LLC. He now lives in Baker County, Oregon. When not serving clients, he is often working on his family's Tree Farm or hiking in the woods with either a camera, shotgun, bow, muzzleloader, or rifle.

Joe Rebori, Manager Inquiries & Engineering, BioMicrobics - Troubleshooting Wastewater Treatment Processes: Joe Rebori is the Manager of Inquiries & Engineering for BioMicrobics. He works with BioMicrobics' distributors, septic designers, and engineers to advise on the use of onsite wastewater treatment systems in commercial and high-strength waste applications. His focus is in fixed-film and membrane bioreactor process technologies. He also assists a global customer base with residential wastewater, greywater, and stormwater products.

Kevin Riddle, Sweet Water Sanitation, LLC - Septic Pumping: Kevin Riddle, Owner Sweet Water Sanitation, LLC - Owner of two septic companies with over 20 years in the industry. O2WA Board member in the Pumper Seat.

Steven Sinks, Orenco Systems - Tanks, Riser, and Lids / Safety: Steven Sinks, Northwest Region Account Manager, Orenco Systems – Steve has worked with Orenco for 24 years. He has worked in many departments over the years including the Electrical Engineering Department, Orenco Pump Department, Supervisor of Electrical OEM Panel Shop and Orenco Sales Department. Before coming to Orenco he worked for the Department of Defense and is a veteran of the United States Marine Corps.

Steve Rose, Anglers Septic & Excavation - Field Effluent Analysis: Steve has 20+ years in the industry. Started with Best Pots Inc pumping portable toilets in 1999. When Best Pots purchased A&B Septic, Steve began performing drain cleaning, tank pumping, and minor repairs to systems. During this time, he obtained my limited electrical license. Later he moved to residential Att system management when OSI introduced the Advantex Treatment System. In 2011 Steve moved to commercial wastewater system management with Septic Technologies. In 2023 he started my own construction company Anglers Septic & Excavation Services.

Kevin M. Sherman, P.E., (NH) Director of Engineering and Regulatory Affairs, SeptiTech, Inc. a wholly owned subsidiary of BioMicrobics, Inc. - Flow Equalization Basics & Judging Aggregate Quality: Kevin collaborated with the Florida Department of Health for fourteen years. For three years, he served as administrator of the onsite sewage program. For six years, Dr. Sherman served as the Executive Vice President of the Florida Onsite Wastewater Association. Currently, he is Director of Engineering and Regulatory Affairs for SeptiTech, Inc. Dr. Sherman is the author or co-author of over 25 publications. He is a past-president of the Florida Environmental Health Association and the National Onsite Wastewater Recycling Association. He is a Professional Engineer in twelve states and is a Registered Sanitarian in Florida.

Edward Varga, President, E & A SYSTEMS INC. - Team Effort to Install a New System: Eddie has over 2 decades in the industry. Started back in 2000 with an oversized cap-n-fill system. Over the last 20+ years Eddie has gone from designing onsite disposal systems, installing them, and maintaining them as well. He holds a Installers Certification, Maintenance Certification, Limited Plumbers License, and the Limited Electrical License. He has been blessed with an Amazing Wife, Andreea which he met in 2013, who collaborates with me Designing, Installing, and Maintaining the Onsite systems we service. They have both been blessed with 2 Amazing daughters, Sephora and Antonia, who one day the hope is they work in the industry and be able to be a blessing to the industry. Over the past couple of years, he has been on the O2WA board as the installer's representative, and then also the Vice President/President Elect. of the O2WA. Within the last year Eddie has been working towards and have become one of the Instructors at Chemeketa Community College and present the new and improved 2-day Installers Certification Class. Looking forward to a great future and a positive attitude from the entire Wastewater Industry to work together and to improve our outreach across Oregon and as far as our wings can spread to move the Wastewater Industry forward to achieve newer heights and better outcomes.