

24th Annual Oregon Onsite Wastewater Conference Class Schedule – Course Agenda

Classes March 2 - Friday			
8:30 8:45	Welcome & Instructions		
8:45 9:45	Defining Success in Our Current World Robert Barnes, King's Pumping		
0.1	What it is, how does one define it for their business, what things factor into the concept of being successful? For a business or a business owner to be successful means much more than the numbers on the Profit and Loss sheet. Yes it involves the dollars and cents but it also involves the motivations, emotions and interactions one has within themselves and the people they are surrounded with such as employees and their families.		
10:15 11:15	Contaminants of Emerging Concern Treatment in Shallow Soil-based Septic Systems George Heufelder, M.S., R.S. Barnstable County Department of Health and Environment		
0.1	The presentation will review work that assessed the ability of shallow soil-based systems for the removal of Contaminants of Emerging Concern. The objectives of the presentation include informing the audience regarding: What are Contaminants of Emerging Concern?, Why we should we care about CEC in context of septic system design, What are the challenges for CEC removal?, How do shallow soils-based designs remove CEC?, What are the factors to consider to optimize removal of CEC?, How does soil type effect CEC removal? And What does this information mean in context to my role in the onsite industry?		
11:15 12:15	Onsite Wastewater Treatment Systems - Energy Usage, Cost, Groundwater Recharge, and Efforts by the National Onsite Wastewater Recycling Association (NOWRA) to Advance Wastewater Infrastructure Carl W. Thompson, P.E., Infiltrator		
0.1	Onsite wastewater treatment systems serve approximately 25% of the population of the United States and approximately one-third of all houses built in the United State last year. This presentation will review recent research on the cost and embodied energy of onsite wastewater treatment systems compared to centralized systems. The presentation will also include an analysis of the potential positive impacts of increasing the use of onsite wastewater treatment to limit groundwater depletion. The presentation will also cover the efforts of the National Onsite Wastewater Recycling Association to advance wastewater infrastructure.		
	Track 1	Track 2	Track 3
2:00 3:00	Brian T. Rabe, CPSS, WWS, Cascade Earth Sciences	Robb Barnes, Kings Pumping	Michael McNickle, ABD-PhD, MPH, MPA, REHS Public Health Director, Clatsop County Department of Public Health
0.1	North Ridge Estates – The Many Challenges of Replacing Onsite Systems at a Superfund Site This talk describes the history of the site leading up to the conditions prior to the removal action. Several constraints were considered during remedial design including the need to strip away and replace the top 2 to 4 feet of soil, time-sensitivity, cost considerations, and conflicting regulatory elements.	ESER Round Table- WHAT? The evaluation is now 8 pages long? - Almost three years into the DEQ ESER program and we still hear that from realtors from time to time. Come and be ready to share your adventures in the ESER process and get some new ideas on how to stay on top of the ESER game. Ways to make the process more streamlined, pitfalls to watch out for and ideas for improving the process are all topics to be touched during the class.	City of Gearhart’s 901 Ordinance This course will review the City of Gearhart’s 901 ordinance dealing with short-term rentals and septic systems.
3:20 4:20	Cheryl Martinis, Oregon Construction Contractors Board	Dennis Boeger, PE, Boeger and Associates	Jeremy Simmons, WMS Manager, WA DOH, Meagan Jackson, Research Assistant
0.1	CCB Residential License What You Can And Cannot Do Without A CCB License. Plus OSHA Confined Space Requirements Reviewing also the requirements by OSHA for Confined Space.	Design with O&M in Mind This presentation will share my experiences over the course of 25 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.	Field Effectiveness of Ultraviolet Disinfection Units in Onsite Wastewater Treatment in Two Washington Counties Overview of the Washington state funded project to gather samples in 2 counties in Washington, one with strong oversight of their systems and one with less.
4:30 5:30	Scott Hammerschmith, Orenco	Kevin Leahy, Director of Clatsop SBDC	Lawrence (Larry) Brown REHS, DEQ Eastern Region - Water Quality Land Application
0.1	System Start Up – This class will review the common punch list for Installers for the startup of a system.	Resources for Small Businesses - General overview of Small Business Development Center is a support team for business; counseling, training, information and technical assistance in all aspects of small business management.	What Really Goes On Behind Site Evaluations - an Eastern Region Perspective - is a talk that discusses the Environmental Health Specialist; what they look for when conducting site evaluations and discusses the reasons why we are needing to protect public health.

Classes March 3 - Saturday

	Track 1	Track 2	Track 3
8:30 9:30	Paula Hartland, ODOT	George Heufelder, M.S., R.S	John Audley, Lobbyist & Robert F. Sweeney, MS, REHS, EMS
0.1	Motor Carrier Record Keeping - Buying the truck and hiring the driver is only the first step of many required to operate a CMV on the highway. Here we will talk through all of the record keeping requirements for driver's files, drug testing, CDL's and vehicle maintenance.	Passive Nitrogen Removal In Onsite Septic System – Lessons From The Woods The presentation reviews work being conducted throughout the country on achieving nitrogen removal from onsite wastewater systems by enhancing soil profiles with sources of carbon. The Massachusetts Alternative Septic System Test Center have provided promising results for removing nitrogen "passively" using various wood products variously incorporated into soil profiles. Results and examples will be reviewed along with construction details and sampling methodology.	Successful Legislative Effort Of The DEQ Loan Program. Legislation process. How Ideas Become Laws. Discussion of ORSs that pertain to OSSTS & Ideas for Change.
9:40 10:40	Paula Hartland, ODOT	Dan Buss, SepTech	James Cruver, PhD, Founder of Salcor. Ltd.
0.1	Motor Carrier and Driver Time Record Requirements If you drive a commercial motor vehicle you may be subject to the Electronic Logging Device rule that went into effect 12/17/17. Non-compliance could result in out of service orders and citations. In this session we will cover all of the time keeping requirements and all exceptions from this ruling.	Beginning Math Class for Installers How to calculate whether a system will gravity flow or a pump is needed. Also be covering how to calculate liquid volume and how to calculate float setting in demand dose system. Gravity Flow VS Pumping and Float Settings for demand dose systems. Dan will be providing a worksheet for them to use in the field.	Disinfection Techniques Objectives, Benefits, and Limitations This presentation will present public health criteria for effluent disinfection in both soil applications and in direct discharge systems. New disinfection issues, such as antibiotic resistant genes and superbugs, will be discussed.
11:00 12:00	Paula Hartland, ODOT	Doug Dato, Ridgid Tools	Dennis Boeger, PE, Boeger and Associates
0.1	ODOT Q&A - Whether you have more questions regarding record keeping, Electronic Logging Devices, maintenance, load securement, etc. Whatever it may be, if it is ODOT related bring your questions.	How Far To Go Without Harming the System Overview and techniques for locating an existing system, tools, procedures, etc	Design with O&M in Mind This presentation will share my experiences over the course of 25 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.
1:00 2:00	Perry Dunlap, Dunlap Septic	John Barrett & Charlie Turner, FMI	Robert F. Sweeney, MS, REHS, EMS
0.1	General Knowledge of Septic Installation Round Table discussion of best practices of Septic Installation.	Maintenance On Primaries, Secondary's, Scrubbers, Vane Pumps, Right Angle Gear Boxes, Belt Drive Systems, Hydraulic Drives, PTO Systems, Vacuum/Pressure Relief Valves. Repairing lever valves v. replacing. Heated valves/collars. On board jettors and their maintenance. Checking for leaks in the tanks, stress cracks, mounting issues. Differences in aluminum v. steel v. stainless steel and care for each one.	Basis of Design / Sizing Factors & Schematic Diagrams for OnSite Sewage Treatment Systems (OSSTS) Class will cover design and sizing factors for residential & commercial septic systems. The attendee will learn how to prepare a schematic diagram.
2:20 3:20	Mark McCollum, SJE-Rhombus/CSI Controls	Panel Discussion	Aaron Dennis, REHS, Clackamas County
0.1	Basic Electrical Theory & Panel Troubleshooting Basics This presentation how a control panel works electrically, and how to safely and correctly identify a problem 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.	Troubleshooting Infiltration/Inflow Into A Septic System, Which Relates To Storm Water Come prepared with your questions and share your own experience! Round Table discussion for all attendees interested in learning more about storm water and how it affects septic systems.	Soils for Installers A presentation on septic test pit location as it related to topographical features. The presentation is intended to provide individuals preparing soil test pits, with some basic background information in selecting a proper location for preparing test pit. The presentation will be focused on reviewing project sites for all options as they relate to topographical features that can influence the soil conditions and design criteria.
3:30 4:30	Mark McCollum, SJE-Rhombus/CSI Controls	Pat McVay, Sporthaven Inc.	Steve Greenslate & Emma Eichhorn, EMS

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Continue the Basic Electrical Theory & Panel Troubleshooting Basics

Open Round Table Discussions. Hear others point of view and how they approach problems and deal with them, i.e. septic smell in home, possible under the counter vent that doesn't vent through roof. Remodel or island sink.

Wetlands, Surface Water Recognizing, Avoiding & Dealing With Impacts

This class will cover Erosion & Sediment Control for OSSTS. Best Management Practices that are required.