

I.N.F.O. Industry News for Oregon

Fall Issue 2019





JOIN US! FEBRUARY 7/8, 2020 ANNUAL OREGON ONSITE WASTEWATER CONFERENCE VALLEY RIVER INN, EUGENE, OR 70 SW Century Dr. Suite 100, #353 Bend ,Oregon 97702 (541)389-6692 www.O2WA.org info@O2WA.org

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MEMBERSHIP NOWRA & O2WA

O2WA OFFICERS
President
Larry O'Connor
Past President
Trent Clinkscales
Vice President
Dennis Boeger, PE
Secretary/Treasurer
Scott Davis

BOARD OF DIRECTORS Septic Tank Pumper **Kevin Riddle** Engineer Dennis Boeger, P.E. Manufacturer **Brad Routh** Soil Scientist vacant Installer **Perry Dunlap** Sanitarian Robert F. Sweeney, REHS Tank Mfg. **Scott Davis** O&M **Trent Clinkscales** County Regulator Claudia Hill, REHS **Industry at Large** Pat McVay **Executive Director** Belinda Rasmussen, CMM



PRESIDENT'S MESSAGE - Larry O'Connor

Dear O2WA Members & All Onsite Industry,

Membership in organizations such as O2WA are essential in keeping you connected with a community of higher professionalism, providing professional development, and supporting your business through a variety of valuable programs.

The O2WA Board is working hard to enhance the value of membership. The following lists some of the benefits of being an O2WA member. For more details and registration for training go to www.o2wa.org:

- NEW Membership in National Onsite Wastewater Recycling Association (NOWRA) - the largest organization within the U.S. dedicated to educating and representing members within the onsite and decentralized industry.
- Website Listing on the O2WA Website & NOWRA Find a Septic System Professional
- In Your Area
- Job Board free for Members who need to post any openings for your company
- Discounts at Conferences & Training Classes
- Scholarship Program for Direct Relatives of Members
- Public Outreach
- Quarterly Industry News
- Advocating Change to Better the Industry
- Connection & Communication with Others in the Industry

We had a very good fall conference in Hood River with some excellent presentations by Nancy Darling of Matrix soils, Brannon Lamp of Aqua Resources, Dennis Boeger of Boeger and Associates, Scott Hammerschmith of Orenco, Jena Ross of Craft 3 and Jessica Joy from the Oregon DEQ onsite program. Thank you to the presenters, and all in attendance.

Exhibitors & Sponsors - Craft3, HD Fowler, Infiltrator Water Technologies, Ferguson Water Works, RepCo Sales Agency, Willamette Graystone.

You need to know we are preparing a very full annual conference at the Valley River Inn February 7 & 8 in Eugene, be sure view the agenda and put in on your calendar.

Your association is working to build an even more robust training program. Thanks to Dan Buss, Brannon Lamp, Scott Davis, Dan Bush and Randy Trox. Details to follow.

We are in the process of interviewing for a lobbyist, we hope to hire one next year to help us influence legislation and keep us apprised of any bills that might adversely affect our members and industry.

Thanks again for choosing O2WA. We wish you the best in 2020. Hope to see you at the Oregon Onsite Wastewater Conference February 7 & 8, 2020 at the Valley River Inn in Eugene.

Looking forward to Christmas and a New Year and decade in 2020.

Happy Holidays . Everybody!

Q&A by Brian Rabe, CPSS, WWS

Question: I own a small undeveloped parcel. My neighbor just drilled a well and the 100-foot setback takes out a large part of my approved area for my drainfield. What can I do?

Answer: If the remainder of your approved area is too small to accommodate what was originally approved, you may have to increase the level of treatment in order to reduce the size of the drainfield. If that is not enough, you may need to apply for a new site evaluation to expand the approved area or find a new one. If that does not work, you may need to explore a formal variance to mitigate the conditions that prevent outright approval. Unfortunately, there are circumstances whereby the drilling of a well by a neighbor has resulted in a previously approved lot becoming unbuildable. It would be nice if the well drillers were required to verify the presence/location of drainfield approvals and respect the applicable setbacks, just as we are required to identify and respect existing wells. Unfortunately, this is not the case and things like this occasionally happen. Most often it is unintentional, but there have been rare instances where it has been deliberate. Due diligence and mutual respect go a long way toward maintaining good neighborly relations.



2020 Rodeo Sponsor



By Sara Heger, Ph.D. January 2019 provided by COLE Publishing, Inc. www.onsiteinstaller.com

Dr. Sara Heger opening keynote speaker at the 2020 Oregon Onsite Wastewater Conference February 7/8 at the Valley River Inn, Eugene, OR

Considerations for a Spa Business on a Septic System

If you have a customer who would like to open up a spa or is already offering spa services and is served by a septic system, there are numerous concerns to be addressed in the design and management of the system.

Previously, it was assumed spa wastewater may contain hazardous materials, but recent studies have not shown this to be true — although the typical chemicals used in a spa may create a challenging environment for the necessary bacteria in a septic tank and soil treatment system. The addition of these chemicals may result in septic tank effluent that does not meet the definition of domestic wastewater. If this wastewater is applied to a soil treatment system the life of the system will likely be reduced.

- 1. Types of services: Many spas will offer a wide range of services. Each of these has the potential to impact flow, strength and toxics. A detailed survey should be completed which quantifies the number of stations, customers and employees at the facility per day. Commercial survey forms can be found at: http://www.onsiteconsortium.org/awtschecklists.html (see 7.15 Beauty Shops).
- Hair services include cuts, coloring, perms, relaxers
- Manicure and pedicures
- Messages oil, mud
- Facials
- Waxing
- Showers or hot tubs
- Food or beverage service
- Restrooms (customers and employees)
- 2. Current or proposed cleaning practices that will impact the septic system:
- Drain cleaners
- Floor drain waste
- Degreasers

In-house laundry Recommendations

 Install a water meter or another device to track daily flow. If it is a new facility, determine water pressure (gallons per minute) of well/water supply and have owner estimate usage per customer for each activity above.

- Sample the effluent from the current system for biochemical oxygen demand, total suspended solids and fat, oil and grease and compare to typical domestic levels.
- If there is a water treatment device, be sure it routes out of the septic system.
- Discuss the products used in the facility for coloring, perms and relaxing, and encourage natural/biodegradable products. If any are strong disinfectants consider routing one sink to a holding tank.
- Recommend a UPC-approved hair trap for salons.
- Install a washing machine lint filter if laundry will be washed on site.
- Add additional tank capacity and a commercial size effluent screen to try to catch small hair and clay particles (if mud is used).
- Recommend the spa limit the use of petroleum based oils and lotions, as they can be toxic to microbes in the system.
- Limit the use of mud as the small silt and clay particles may pass through the septic tank and plug the soil treatment system.
- Be sure no chemically treated water from hot tubs is entering the system.
- If food or beverage is provided discuss the extent

 for example, are they dumping a significant
 amount of unused coffee each day?
- A maintenance contract should be in place with a licensed onsite professional to assure the proper operation and maintenance of the treatment system. The contract should include sampling and a minimum of annual checks unless annual evaluations indicate a long time period is warrantied.

About the author: Sara Heger, Ph.D., is an engineer, researcher and instructor in the Onsite Sewage Treatment Program in the Water Resources Center at the University of Minnesota. She presents at many local and national training events regarding the design, installation, and management of septic systems and related research. Heger is education chair of the Minnesota Onsite Wastewater Association and the National Onsite Wastewater Recycling Association, and she serves on the NSF International Committee on Wastewater Treatment Systems. Ask Heger questions about septic system maintenance and operation by sending an

email to kim.peterson@colepublishing.com.



Brian Rabe will be a general session speaker at the 2020 Oregon Onsite Wastewater Conference February 7/8 at the Valley River Inn, Eugene, OR

SOILS ON THE HORIZON by Brian Rabe, CPSS, WWS

Another change being considered for inclusion in the upcoming rule revisions would define new minimum parcel sizes for various levels of treatment in areas with shallow unconfined aquifers in soils with rapid or very rapid permeability. Currently, the minimum parcel size is 0.5 acres for a 4-bedroom home (450 gallons of projected daily sewage flow) where pressurized distribution is used and the vertical separation distance from the bottom of the trench to the highest predicted elevation of the underlying permanent water table is at least four feet. Without pressurized distribution, the minimum parcel size is 1.0 acres. If the vertical separation distance is less than four feet, then a sand filter or alternative treatment technology system meeting treatment standard 2 is required but the vertical separation distance must still be at least 24 inches.

Treatment standard 2 currently represents the highest level of treatment defined in the rules. It includes standards for biological treatment as well as nutrient removal and pathogen reduction. Specifically, treatment standard 2 requires a reduction in total nitrogen in the effluent to 30 milligrams per liter (mg/L) or lower. A new treatment standard 3 is being considered that would increase the nitrogen removal criteria such that total nitrogen concentrations in the effluent would be reduced to 20 mg/L or lower.

The intent of the proposed new treatment standard and a new set of minimum parcel sizes is to minimize the potential impact on groundwater quality in areas with sensitive aquifers. Unconfined aquifers with overlying soils primarily having rapid or very rapid permeability represent conditions where soluble constituents, such as nitrate-nitrogen, can migrate quickly from the near-surface to the water table too quickly and/or without sufficient treatment or removal processes to be effective. Specifically, these areas include southern Deschutes County, parts of Umatilla and Morrow counties, and other areas throughout the state with similar conditions (such as the sandy soils along rivers and streams).

Another twist that was added after the committee completed its work was the addition of a precipitation factor correlating to three ranges: 7 to 29 inches (low); 30 to 49 inches (medium); and more than 50 inches (high). In addition, the setback to surface waters is proposed to increase for treatment standard 1, treatment standard 2, and sand filters from 50 feet to 100 feet. The 50-foot setback will only be allowed for systems meeting treatment standard 3 (This, too, was not specifically discussed by the committee).

The proposed new parcel sizes would be correlated to the level of treatment, as follows:

2.5 acres - Septic Tank Effluent (gravity – must meet 4-foot vertical separation distance and have a layer at least 18 inches thick that does not have rapid or very rapid permeability between the bottom of the trench and the underlying water table).

1.5/1.25/0.75 acres (low/medium/high) – Septic Tank Effluent (requires low pressure distribution and must meet 4-foot vertical separation from the bottom of the trench and the highest elevation of the underlying permanent water table).

1.0/1.0/0.75 acres – Treatment Standard 1 (requires low pressure distribution and must meet 4-foot vertical separation from the bottom of the trench and the highest elevation of the underlying permanent water table).

1.0/1.0/0.75 acres – Treatment Standard 2 (requires low pressure distribution and must meet 24-inch vertical separation from the bottom of the trench and the highest elevation of the underlying permanent water table).

0.5 acre – Treatment Standard 3 (requires low pressure distribution and must meet 24-inch vertical separation from the bottom of the trench and the highest elevation of the underlying permanent water table).

The rules allow for increasing the required level of treatment from what was originally approved. However, the cost implications associated with these proposed changes are potentially significant and could negatively affect a fairly large number of current property owners.

That's all for now. Remember, Soil Rocks!



CALL FOR NOMINATIONS - DEADLINE JANUARY 30TH.

Qualifications of Directors and Composition of the Board. Nominees for positions on the Board of Directors must have demonstrated a commitment to the mission and purposes of Oregon Onsite Wastewater Association, and must have expertise in areas relevant to the needs of the organization. Directors must be voting members of Oregon Onsite Wastewater Association. There shall be at least one member of the Board of Directors representing each of the following interests: manufacturers, engineers, soil scientists, installers, pumpers, septic tank manufacturers, operation & maintenance providers and environmental health specialists, an industry at large position, and one county regulator. In the event that no one from the appropriate interest category runs for an open position, then that position may be filled by an otherwise eligible member from any other category, or that position may be left vacant, until that seat is next up for election. The Department of Environmental Quality is invited to appoint a representative as a non-voting liaison to the Board and share the perspective of the DEQ.

EMAIL Nomination to info@o2wa.org. NOMINATIONS WILL BE CLOSED ON MONDAY, January 30th.

SOILS SCIENTIST Currently Vacant
PUMPER Board Seat Currently Kevin Riddle
ENGINEER Board Seat Currently Dennis Boeger
SEPTIC INSTALLER Board Seat Currently Perry Dunlap
INDUSTRY AT LARGE Board Seat Currently Pat McVay

Candidates must provide a summary of their involvement in the industry, the company they work for and position or a resume. If you are interested in any of these positions, please feel free to nominate yourself.

Contact the office with any questions - info@o2wa.org.

DEO'S NEW SITE ALLOWS USERS TO SUBMIT ONSITE APPLICATIONS ONLINE

You can now use your credit card to pay application fees for septic system permits, site evaluations, authorization notices, records requests or other onsite fees. This move is a further expansion of the onsite program's online offerings. Applicants can submit and track their applications and receive their permits online.

The online system allows users to create an account to track their applications and to pay invoices online. Check it out on the Oregon e-Permitting page. DEQ offices also have public kiosks for those who don't have internet access or who want help with the process. A help desk is available to anyone who has questions. It can be reached at oregonepermitting@oregon.gov or by calling 503-373-7396 or 1-800-442-7457.

PROPOSED RULEMAKING

https://www.oregon.gov/deq/Regulations/rulemaking/Pages/rwqfees2020.aspx

DEQ is proposing rule amendments to increase water quality fees in 2020 for fiscal year 2021.

The Water Quality Program's mission is to protect and improve Oregon's water quality. Protecting Oregon's rivers, lakes, streams, and groundwater quality keeps these waters safe so they can be used for drinking water, fish habitats, recreation, and irrigation. DEQ accomplishes this by developing and implementing water quality standards and clean water plans, issuing water quality permits, regulating sewage treatment systems and industrial dischargers, collecting and evaluating water quality data, providing grants and technical assistance to reduce nonpoint pollution sources, and giving loans to communities to build treatment facilities.

DEQ needs the fee increase to help account for the anticipated rise in administration costs associated with the permit program and to support policy option packages 122 and 127 of the 2019-21 Legislatively Adopted Budget. This increase will also help DEQ achieve its objective for a sustainable water quality program that issues timely, high quality permits. The fees also help ensure compliance with permit conditions through supporting inspections, enforcement, and reporting to the United States Environmental Protection Agency.

DEQ must apply the new fees to invoices as of June 2020 to cover costs associated with implementing the permitting program and delivering services to regulated entities. Without this increase, DEQ would need to reduce permitting staff and delay implementing improvements to the program as identified in the report, Recommendations and Implementation Plan. The 2015 Oregon Legislature commissioned this report, which a third-party consultant completed in November 2016.

SCHOLARSHIPS AVAILABLE FOR O2WA MEMBERS

PURPOSE OF PROGRAM

The purpose of this scholarship program is to:

Promote the education of members of the Oregon Onsite Wastewater Association (O2WA) and their sons or daughters in any field of higher education, and promote education in the environmental sciences or other related academic pursuits that apply to the field of onsite wastewater treatment.

Twenty (20) percent of the weight in scoring applications provides an incentive toward fields of study related to the onsite industry.

Eligibility

Candidates must meet the following criteria:

- 1. Be a child or dependent, age 25 or less, of a current O2WA Member (Individual or listed Corporate Member) in good standing as of May 31 of the preceding year planning to study or currently studying in any field of higher education. A child or dependent is defined as a son or daughter (including step-children) living in the members household or primarily supported by the member; or
- 2. Be a non-O2WA member interested in pursuing an education beyond high school through study in fields related to onsite wastewater treatment. Students are limited to relevant fields of study that apply to the field of onsite wastewater treatment, including, but are not limited to, public health, environmental science, soil science, engineering, construction technology, or biology.



FEBRUARY 7 & 8, 2020 - REGISTER BY SATURDAY, FEBRUARY 1ST ONLINE AT WWW.O2WA.ORG OR COMPLETE AND MAIL IN THE REGISTRATION FORM

From Septic system design and operation considerations, potential ODOT and DEQ rule changes, to round table discussions, O2WA brings together experts from across the industry to share their knowledge and help prepare you and your employees to meet the challenges ahead.

EARN 1.2 CEUS or 12 Hours FOR YOUR CERTIFICATION



The Oregon Onsite Wastewater Association (O_2WA) sponsors an annual conference offering an excellent opportunity for any interested party to gain access to the active wastewater professional. Persons, companies and publications should consider exhibiting, sponsoring, and/or donating auction/raffle prizes.

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.

CONTINUING EDUCATION UNIT REQUIREMENTS:

DEQ: Under OAR 340-071-0650, installer and maintenance provider recertification is 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.

2020 DATES: Welcome Reception & Check In February 6th | Classes February 7 & 8

LOCATION: The Valley River Inn 1000 Valley River Way, Eugene, OR 97401

LODGING: O₂WA rates at the Valley River Inn. A limited number of rooms are available at this discounted rate. Call 800-543-8266

REGISTRATION FEE: Members -2 Day Conference Registration \$380.00 or 1 Day Conference Registration \$185.00 **See registration form for all fees and cancelation policy.** Cancellation by January 30, 2020 will receive a full refund. Cancelations must be in writing and sent to the O_2WA office via email – info@o2wa.org.

REGISTRATION INCLUDES:

CLASSES: 30 Classes to choose from with a 2 day registration.

EXHIBITS: Exchange ideas and discuss new products and/or services.

THURSDAY NIGHT WELCOME RECEPTION: Join us Thursday night from 5:30 -7:00 pm for a reception and check in at the registration desk. Exhibits will be open. Light hors d'oeuvres will be served with a no host bar.

EQUIPMENT RODEO - EVERYONE is welcome to compete for prizes!

FRIDAY RECEPTION | DINNER | AUCTION: Included with 2 Day Conference Registration. Guests will pay an additional fee. The auction and raffle is how O_2WA funds the Scholarship Program. The purpose of this program is to (1) promote education in the environmental sciences or other related academic pursuits that apply to the field of onsite wastewater treatment, and (2) promote the education of members of the O_2WA and their direct relatives in any field of higher education.



February 6, 7 & 8, 2020 CONFERENCE PROGRAM

Program Subject to change

THURSDAY, FEBRUARY 6, 2020

5:30 - 6:30 Welcome Reception / Registration Desk Open

FRIDAY, FEBRUARY 7, 2020

7:00 Registration Desk Open / Equipment Rodeo Check In / Exh ibits Open / Continental Breakfast

8:15 - 8:30 Welcome and Introductory Remarks Larry O'Connor, O2WA President / Belinda Rasmussen, CMM, O2WA Executive Director

8:30 – 9:30 0.1 CEU- General Session Sara Heger, PhD University of Minnesota, Onsite Wastewater Program

Challenging Wastewater Streams - This presentation will focus on a study funded by the Water Research Foundation evaluating water use from over 23 utilities and over 1,000 homes showing a 23% reduction in water use since 1999. The primary sources for the reduction will be discussed along with implications with increased concentrations. Septic system design and operation considerations will be highlighted.

9:30 - 9:50 - Exhibit Hall Open / Break

9:50 – 10:50 0.1 CEU General Session Brian T. Rabe, CPSS, WWS, Managing Soil Scientist Cascade Earth Sciences **Outlining Rule Revision Process & Proposed Rule Changes** - This topic will provide an overview of the process, participants (TRC committee, DEQ staff, etc.), and public participation. Providing a summary of minor changes and a more detailed overview of several more significant proposals. This topic is both timely and directly relevant to the professional development of our conference attendees.

11:00 – 12:00 0.1 CEU General Session Sara Heger, PhD University of Minnesota, Onsite Wastewater Program **Septic System Emerging Issue: Microplastics** - Laundry waste is sewage, but could the increase in synthetic fibers be harming our septic systems and reaching our lakes, rivers and streams? The lint from washing clothing has the potential to make its way thought onsite treatment systems. This presentation will discuss the issues

12:00 - 1:30 Exhibit Hall Open / Lunch / Rodeo Sponsored by Pape' Machinery

1:30 - 2:30 0.1 CEU

TRACK 1 Dan Buss - **Installing with Maintenance in Mind** – We will explain the difference of standard installation practices (or practices we often see in the field) and installation of a septic system ready to be maintained by a service provider. Often things are missed in construction that greatly help the maintenance provider and or customer with regards to maintaining the system. We will show some of the differences and explain why it can aid the service provider in cost effective maintenance.

TRACK 2 Robb Barnes - **ESER - A Pain or a Part of our Profitability?** After 5 years of the ESER and Septic Smart program being in place 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.?

TRACK 3 Shawn Stanley Slingshot Legal Services **Right to Lien & Contracts** This presentation will cover the Lien Preparation and Lien Filing process. The important aspects of a Contracts, Pre/Post Lien Notices, Property owner traces, Document review (if matters are beginning to go outside of the construction schedule).

2:30 - 3:00 Exhibit Hall Open / Break

3:00 - 4:00 0.1 CEU

TRACK 1 Aaron Dennis, WWS, Soils Scientist, Senior Clackamas County

Submitting a Complete Septic System Application - Requirements, guidelines, and best practices for submitting complete septic applications in Oregon to contract counties as well as to DEQ. The class will go over what information is needed on applications as well as on plot plans for permits ranging from Minor Repairs to complete Advanced Treatment systems.

TRACK 2 Jason Williams Oregon 811

Excavation Safety 101 - Understanding of common safety issues as well as educate on laws and best practices for safe excavation.

TRACK 3 Kim Aldrich Marion County **Soils Texture What it is it and why does it matter**. We will practice texturing as well as discussing the importance of understanding the textural classes and how they relate to the installation of an onsite septic system.

4:15-5:15 0.1 CEU General Session Sara Heger, PhD University of Minnesota, Onsite Wastewater Program

Changing Water Usage - This presentation will focus on a study funded by the Water Research Foundation evaluating water use from over 23 utilities and over 1,000 homes showing a 23% reduction in water use since 1999. The primary sources for the reduction will be discussed along with implications with increased concentrations. Septic system design and operation considerations will be highlighted.

5:30 - 6:30 Exhibit Hall Open / Reception

6:45 - 8:30 Dinner / Awards / Auction



February 6, 7 & 8, 2020 CONFERENCE PROGRAM

Program Subject to change

SATURDAY, FEBRUARY 8TH

7:30 - 8:30 Registration Desk Open / Exhibit Hall Open / Breakfast Buffett

8:30 - 9:30 0.1 CEU

TRACK 1 Paula Hartland ODOT **FAQ** - Bring your questions to ODOT for a roundtable discussion on compliance, regulation and inspection related to on-highway operation of your commercial motor vehicles.

TRACK 2 Doug Dato Ridgid Tools Locating Theory and it's Practical Application for Septic Systems - Overview and techniques for locating an existing system, tools, procedures, etc.

TRACK 3 Christopher Cotton, M.Eng, EIT, Cascade Earth Sciences **Time Dosing – The Principles and Practice of Managing Variable Flows to Improve Treatment and Reduce the Size of Downstream Components**. This presentation will discuss the various ways to manage flows through onsite sewage treatment systems. This approach is especially helpful for systems with highly variable flows, such as churches, schools, restaurants, and office buildings to name a few. Modern control panels offer reliable options to optimize system performance and sizing. Examples of selected scenarios will be used to demonstrate key principles.

9:40 - 10:40 0.1 CEU

TRACK 1 Paula Hartland ODOT **Truck Inspection** - A hands on look at the required maintenance items on your commercial motor vehicle. Common violations discovered during inspections and roadside stops. What is ODOT and Law Enforcement looking for when they stop my vehicle?

TRACK 2 Scott Hammerschmith Orenco Systems **O&M-Advanced Control Panel Troubleshooting**— Course covering troubleshooting of control panel operation, system troubleshooting, and troubleshooting of control panel components.

TRACK 3 Jena Ross Craft3 - Affordable Loan Program - This presentation will go over the How it works and how it is funded.

10:40 - 11:00 Exhibit Hall Open / Break

11:00 - 12:00 0.1 CEU

TRACK 1 Paula Hartland ODOT **ODOT & USDOT Compliance** - Learn the rules and regulations that apply to your business and drivers. Get updates on changes that may affect your operations.

TRACK 2 Scott Hammerschmith Orenco Systems Control Panels- Course covering control panel wiring and operation.

TRACK 3 Dan Buss **Installer Round Table Discussion** – This is the chance for all installers to discuss the roadblocks they encounter in the industry that limit their ability to be successful. Such as issues with applications. The ability to work with regulators. How to go about obtaining a clarification of a rule. What to do if you are denied an approval. How to handle a missed inspection, and or anything else that you the installer are experiencing difficulty with.

12:00 - 1:00 Lunch

1:00 - 2:00 0.1 CEU

TRACK 1 Joseph Rebori Bio Microbics Installation of Advanced Treatment Technologies (ATT) The BioMicrobics installation seminar will cover aspects of proper installation, startup, and maintenance of residential MicroFAST® treatment systems. Tankage, access, blower, and venting requirements will be detailed along with a "how-it-works" guide to enable proper operation from startup. Maintenance aspects for blowers and management of accumulated solids will be covered.

TRACK 2 Brian T. Rabe, CPSS, WWS, Managing Soil Scientist Cascade Earth Sciences **Hydrosplitters -The Principles and Practices of Pressure-Assisted Distribution** 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.

TRACK 3 James Erlei, Mike Olmsted, Doug Dilley Ferguson Water Works (3 Part Round Table/See attached outline) **T**opics to include but not limited to; Homeowner discussions/ concerns/ options, go over setbacks and how to find them in the OAR's, Now you have a permit what does it mean, what happens when? While digging the trenches you dig through an old drainfield * Building contractor stubbed outlet under the footing now tank is going to be too deep. *With a tank replacement permit you find the drainfield is not what was expected.

Part 1 Best Practices And General Knowledge Of Residential Septic System Installation

2:20 - 3:20 0.1 CEU

TRACK 1 Bob Sweeney, REHS Environmental Management Systems, Inc **Challenging Sites** - What do you do when the site is too wet, too steep, too degraded by previous development and may already have been denied by DEQ or the local DEQ Agent? Case studies will be used to discuss site constraints, regulatory challenges and the use of innovative thinking and treatment to gain success.

TRACK 2 Larry O'Connor RepCo Sales Agency **Pump Basics / A Pump is a Pump** - In this class you will learn 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 and know which pump is more economical to operate, 115v ½ HP or 230v ½ HP.

TRACK 3 Trent Clinkscales Clinkscales Portable Toilets Round Table (Part 2) Pumpers Best Practices

3:30 - 4:30 0.1 CEU

TRACK 1 Dennis Boeger, PE, CWRE Boeger & Associates Influent Waste - Presentation on influent waste strengths above residential levels, sources, and how to address these for DEQ permitted sites.

TRACK 2 Paul Chierichetti **How to Gain and Retain Employees** This presentation will dive into the following topics to help you hire and retain the employees that are best suited for the onsite industry. Would you work for you? Why? What do we have to offer our potential and current employees? What do employees want & how is it possible to offer these things?

TRACK 3 Kevin Riddle Sweet Water Sanitation Round Table (Part 3) Maintenance Providers Best Practices

4:30 Conclusion



541-389-6692 www.o2wa.org info@o2wa.org Founded in 1994



Join Us - O2WA & NOWRA

In September of 1994, the Oregon Onsite Wastewater Association was incorporated to give a voice to members of all disciplines and trades, to encourage the free exchange of ideas, to upgrade skills through education and training, and to promote the development of new and improved practices, policies and uniform standards. Your participation is important.

Members Discounts on Fees for Training and Conference The Oregon DEQ requires continuing education credits for maintenance of your certifications. The O2WA is facilitating a number of timely and highly pertinent training programs throughout the state. O2WA members receive a discount at the Conference & Training Classes.

Promoting Members on the Website More accessible presence on the internet.



Public Outreach Home shows and Bill Board Advertising promoting new and valuable information about our onsite industry, our special technologies, and information on how to contact an O2WA professional via our O2WA website.



State Advocacy There are several legislative issues that have great importance to the Onsite Program. These legislative actions will directly affect O2WA members and our businesses. It is the goal of the board to keep the O2WA members informed. The board would like to help you with positive actions that keep your local legislators aware of our needs as an industry and promote onsite support in your community.

Quarterly Industry News Each quarter there is new and important information delivered to our members. There are several facets of our industry that are covered in the Quarterly News.

Industry Connections At the Annual Members Meeting and again at the Annual Conference O2WA members can meet to discuss issues in the industry. The tradeshow at the Annual Conference brings in suppliers/manufactures from around the state who share the latest technology advances. But it is not all business! Members can participate in the Annual Equipment Rodeo for prizes and share a lot of laughs.



Scholarship Program Each year the O2WA Members and their family may apply for a scholarship. Applications can be found at www.o2wa.org.



AT A GLANCE Fall 2019

(founded in 1991)



NOWRA 5,000+ Members and 32 State Affiliates

(Blue = Affiliates)



Federal Advocacy

• On October 23rd, President Trump signed America's Water Infrastructure Act of 2018 into law. This federal law includes several provisions that NOWRA supported through federal lobbying:



- 1. It requires EPA to create a Decentralized Technology Clearinghouse
- 2. It requires EPA to share information about the cost-effectiveness of decentralized systems with local governments and other groups
- **3.** One year from now and every three years thereafter, EPA must report back to Congress on how they are supporting the increased use of decentralized systems
- **4.** It provides technical assistance for decentralized systems to rural areas, small communities and tribal communities. Congress is authorized to appropriate up to \$25 million per year for the next four years
- NOWRA supported the EPA proposal to have the "sewer or septic" question added to the U.S. Census Annual American Community Survey. This question was removed from the decennial Census after 1990. In October the U.S. Census Bureau accepted the EPA proposal and the question is moving forward to the next stage of cognitive and field testing.

Mega Conference - New Affiliate Group Benefit

Register two affiliate group board members for the price of one for the Mega Conference in October held in Loveland, Colorado!*





Online Education Profit Sharing

NOWRA paid out over \$ 34,000 in profit sharing to state affiliate groups through August 2019.





CARBON PRODUCTS

Call: 503-720-7186 sales@repcosalesagency.com www.repcosalesagency.com

CARBON COVERS



18" Flat Carbon Cover (fits on any 18" corrugated pipe)

PN: 3007-ACC

20" Flat Carbon Cover (fits on Polylok's 20" risers)

PN: 3009-ACC

24" Flat Carbon Cover (fits any 24" corrugated pipe and 24" Polylok risers)

PN: 3008-ACC

30" Flat Carbon Cover (fits on any 30" corrugated pipe)

PN: 3010-ACC







3 and 4" Poly-Air Vent with 1 lb. of carbon PN: PCF-PLVF

CARBON VENTS

Removes offensive odor such as Hydrogen Sulfide as they come out of the roof vent.

- Easy to install
- Cost effective
- Fits 3", 4", 6" pipes with smaller pipe reducer options
- No more offensive odors
- No more spoiled patio parties
- No more foul air drifting into open windows
- Contains up to 5 lbs. of activated carbon pellets



6" Poly-Air Vent with 5 lbs. of carbon PN: PCF-PLVF-6

CARBON REPLACEMENT

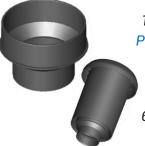
VENT REDUCERS



Replacement Carbon (1 lb.) PN: PCF-PLVF-RC1

Replacement Carbon (5 lbs.)
PN: PCF-PLVF-RC2

Replacement Carbon (50 lbs.)
PN: PCF-PLVF-RC50



1 1/2" Pipe Reducer PN: PCF-PLVF-RD1.5

2" Pipe Reducer PN: PCF-PLVF-RD2

6" to 4" Pipe Reducer PN: PCF-PLVF-RD4